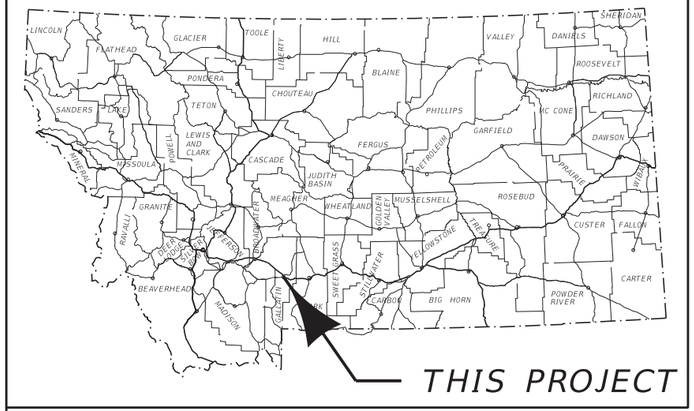
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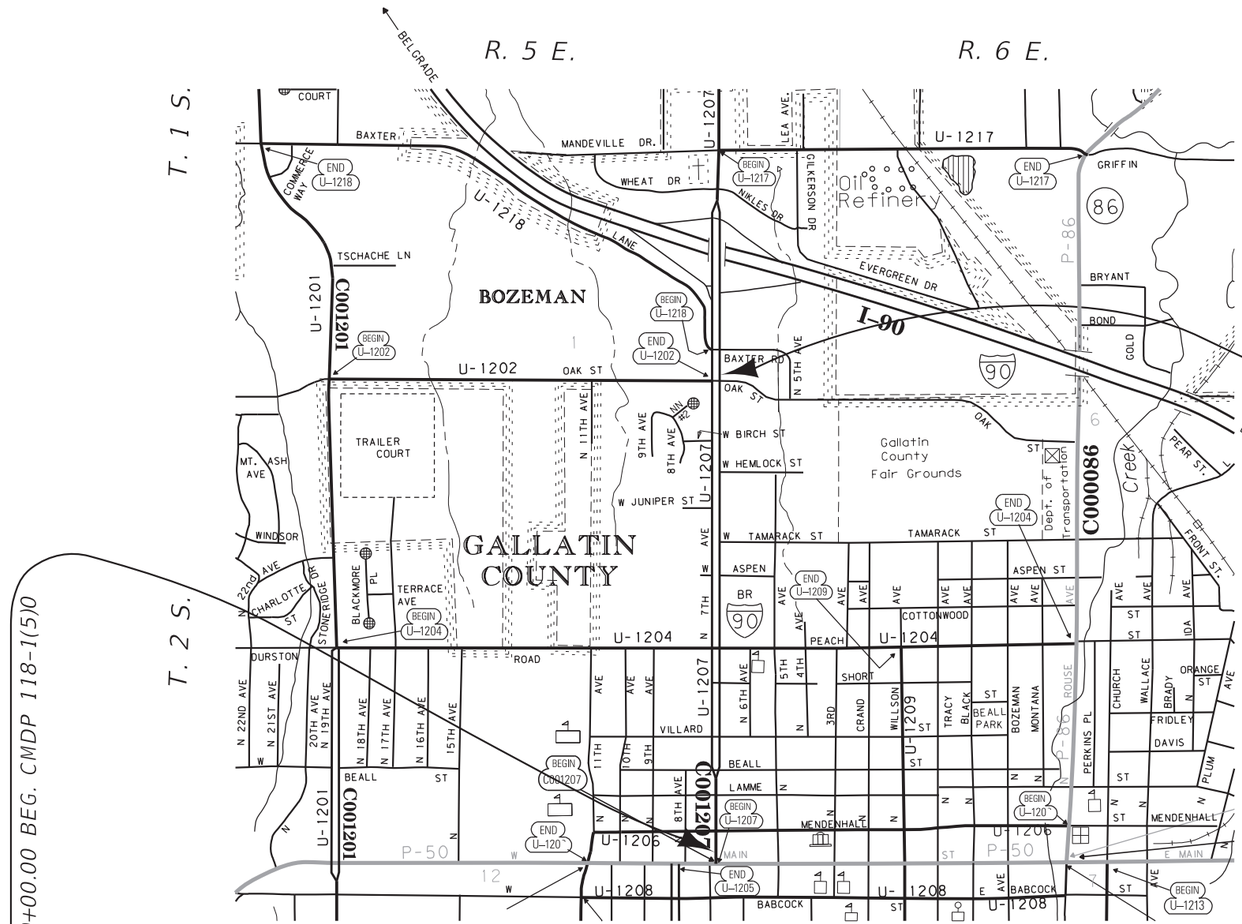
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT CMDP 118-1(5)0
TRAFFIC SIGNALS, LIGHTING, TURN LANES & ADA IMPROVEMENTS
N 7TH AVE INT IMPROV - BOZEMAN
GALLATIN COUNTY

LENGTH 1.0 MILES



SURFACING SOURCES - CONTRACTOR FURNISHED

N 7TH - RP 0+0.001 - 0+0.426 W MENDENHALL ST - DURSTON RD & W PEACH ST INTERSECTIONS		
PRESENT	2023	A.D.T. = 14,030
LETTING	2025	A.D.T. = 14,310
DESIGN	2045	A.D.T. = 17,470
		D.H.V. = 1,800
		TRUCKS = 5.7%
		V. = 40 MPH
		18 KIP ESAL'S = 244
		GROWTH RATE = 1.0%

N 7TH - RP 0+0.426 - 0+0.939 W TAMARACK ST INTERSECTION		
PRESENT	2023	A.D.T. = 19,000
LETTING	2025	A.D.T. = 19,380
DESIGN	2045	A.D.T. = 23,640
		D.H.V. = 2,430
		TRUCKS = 4.2%
		V. = 40 MPH
		18 KIP ESAL'S = 202
		GROWTH RATE = 1.0%

N 7TH - RP 0+0.939 - 0+0.960 W OAK ST INTERSECTION		
PRESENT	2023	A.D.T. = 25,740
LETTING	2025	A.D.T. = 26,260
DESIGN	2045	A.D.T. = 32,040
		D.H.V. = 3,300
		TRUCKS = 3.1%
		V. = 40 MPH
		18 KIP ESAL'S = 159
		GROWTH RATE = 1.0%

RELATED PROJECTS
NH 118-1(7)0

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W	CMDP 118-1(10)0
I.C.	CMDP 118-1(11)0
P. E.	CMDP 118-1(4)0

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

HIGHWAYS ENGINEER

MONTANA DAVID HOLIEN 20186PE LICENSED PROFESSIONAL ENGINEER

Signed by: David Holien
4351D89326494E2...

5/15/2025
DATE

3	MONTANA Department of Transportation	C:\DGN\9313000rdtl001.dgn	DESIGNED BY	J. BERAN	9/24/2024	ROAD PLANS
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024	
		7:42:04 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	UPN 9313000

TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
NOTES	2
LEVEL DATA	2
CENTERLINE COORDINATE TABLES	2
CONTROL DIAGRAM	3
TYPICAL SECTIONS	4-9
SUMMARIES	10-12
SURFACING	10
ADDITIONAL SURFACING	10
SIDEWALK	11
GRADING	11
ADDITIONAL GRADING	11
CURB	11
SOD	11
VALVE BOXES	12
FIRE HYDRANTS	12
STORM DRAIN STRUCTURE SCHEDULE	12
MANHOLES IN PLACE	12
TREES	12
PAVEMENT MARKINGS	12
DETAILS	13-36
CURB RAMP DETAILS	13-21
APPROACH & SIDEWALK DETAILS	22-29
SIDEWALK DRAIN DETAIL	30
SWALE DITCH DETAIL	31
TREE PLANTING & LANDSCAPING	32
GEOMETRIC DETAILS	33-36
PLAN SHEETS	37-41
SIGNING PLANS	
SUMMARY	S1
SPECIFICATIONS	S2-S4
DETAILS	S5
PLANS	S6-S10
ELECTRICAL PLANS	
SUMMARY	E1
DETAILS	E1-E6
PLANS	E7-E10
CROSS SECTIONS	
W PEACH ST	1-11
W OAK ST	1-11

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.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - TACK (CONCRETE SURFACES)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
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.

STATIONING

THE ROAD PLANS WERE STATIONED WITH AN ASSUMED STATION BEGINNING AT 50+00.00, 200+00.00, AND 300+00.00 USING AN ELECTRONIC DISTANCE MEASURING INSTRUMENT. AS-BUILT STATIONS WERE NOT USED

PUBLIC LAND SURVEY MONUMENTS

ALL MONUMENTS TO BE REMOVED AND RELOCATED OR RESET BY STATE FORCES.

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.

DO NOT DISTURB

RETAINING WALLS: 51+27.45 (37.21' RT.) - 51+45.33 (62.81' RT.), 52+05.74 (58.04' LT.) - 52+05.78 (44.89' LT.), 82+02.59 (74.30' RT.) - 82+20.23 (56.22' RT.), 98+24.38 (97.66' LT.) - 98+51.57 (65.25' LT.)
FIRE HYDRANTS: 51+99.54 (58.36' RT.), 70+14.12 (50.25' RT.), 81+32.66 (63.43' RT.)
LANDSCAPING: 97+06.49 (62.25' LT.) - 97+19.54 (72.72' LT.)
GAS VALVE: 97+36.62 (79.61' LT.)
WATER VALVE: 51+98.15 (58.09' RT.)
STORM DRAIN MANHOLE: 205+02.82 (9.10' RT.)
SANITARY SEWER MANHOLE: 310+23.34 (4.76' RT.)

SEE ADDITIONAL FEATURES AND LOCATIONS ON PLAN SHEETS

APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet WIDTH	linear feet LENGTH	EXISTING SURFACING	feet PMS THK.	feet CAC THK.	PROPOSED SURFACE	sq. yards COVER TYPE 2	tons COMM. MIX MISC.	cu. yards CRUSHED AGG. COURSE	tons EMULSIFIED ASPHALT CHFRS-2P	gallons EMULS. ASPHALT TACK	sq. yards AGG. TREAT.	sq. yards CONCRETE SIDEWALK # 6"	REMARKS
203+83	PRIVATE	30	10.0	ASPHALT	0.2	0.6	ASPHALT TO LENGTH	33	4	7	0.1	2	33		JOINT-USE LT., VERIZON
205+39	PRIVATE	21	10.0	ASPHALT	0.2	0.6	ASPHALT TO LENGTH	23	3	5	0.1	1	23		LT., NEW AGE ARTISANS
206+27	PRIVATE	22	11.0	CONCRETE	N/A	0.6	CONCRETE TO LENGTH							26.9	LT., PRIVATE RESIDENCE
309+63	PRIVATE	32	8.7	ASPHALT	0.2	0.6	ASPHALT TO LENGTH	31	4	6	0.1	2	31		* LT., LUBE ALLEY
312+54	PRIVATE	35	14.2	ASPHALT	0.2	0.6	ASPHALT TO LENGTH	55	7	11	0.1	3	55	## 11.5	* LT., COMFORT INN
SUBTOTAL	PRIVATE							142	18	29	0.4	8	142	38.4	

* BUILD ONE-HALF AT A TIME
\# GRAVEL UNDER THE CONCRETE IS INCLUDED IN COST OF CONCRETE
\## CONCRETE APRON

LEVEL DATA

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD83-2011

LEVEL DATUM SOURCE

NAVD88 (ELEVATIONS ARE BASED ON DIFFERENTIAL LEVELS USING GEOID 12A AND HOLDING THE MDT UPN 4805 PUBLISHED ELEVATION AT MARK Y307)

N 7TH AVE CENTERLINE ALIGNMENT COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
50+00.00	POB	525,250.738	1,573,432.984	BEGIN PROJECT
51+75.29	PI	525,425.963	1,573,437.877	ANGLE POINT
70+57.89	PI	527,308.246	1,573,472.016	ANGLE POINT
81+69.94	PI	528,420.038	1,573,496.124	ANGLE POINT
97+65.65	PI	530,015.391	1,573,529.851	ANGLE POINT
100+12.34	POE	530,261.861	1,573,540.292	END PROJECT

GPK NAME: JOBR13.GPK CHAIN NAME: 7TH PROFILE NAME: V7TH

W PEACH ST CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
200+00.00	POT	527,319.515	1,573,285.437	
201+86.92	PI	527,308.246	1,573,472.016	ANGLE POINT
202+27.21	POT	527,307.958	1,573,512.330	BEGIN WORK
204+95.37	PI	527,302.221	1,573,780.405	ANGLE POINT
207+39.00	POT	527,297.676	1,574,024.017	END WORK
207+74.24	POT	527,296.447	1,574,059.215	

GPK NAME: JOBR13.GPK CHAIN NAME: PEACH PROFILE NAME: Vp

W OAK ST CENTERLINE ALIGNMENT COORDINATE TABLE

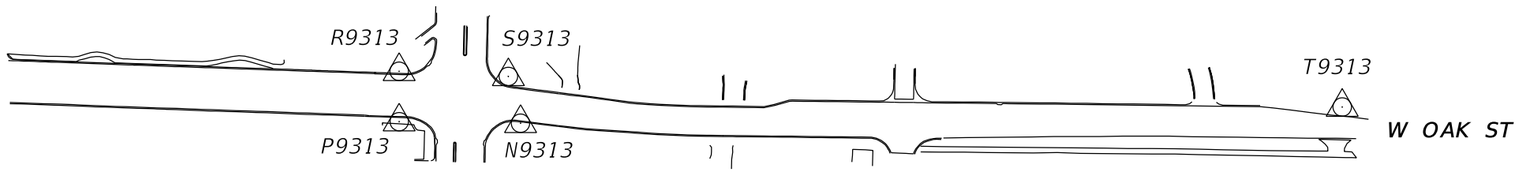
STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
300+00.00	POT	530,051.218	1,572,758.426	BEGIN WORK
307+26.44	POT	530,025.197	1,573,484.400	END CONNECTION
307+72.26	PI	530,023.555	1,573,530.190	ANGLE POINT
308+01.24	POT	530,020.057	1,573,558.958	BEGIN CONNECTION
309+39.18	PC	530,003.406	1,573,695.890	
310+75.56	PI	529,986.816	1,573,831.252	
312+11.65	PT	529,985.305	1,573,967.618	
315+08.00	POT	529,981.741	1,574,263.946	END WORK
318+16.26	POT	529,978.035	1,574,572.183	NOT SHOWN ON PLANS
323+56.90	POT	529,965.412	1,575,112.674	NOT SHOWN ON PLANS

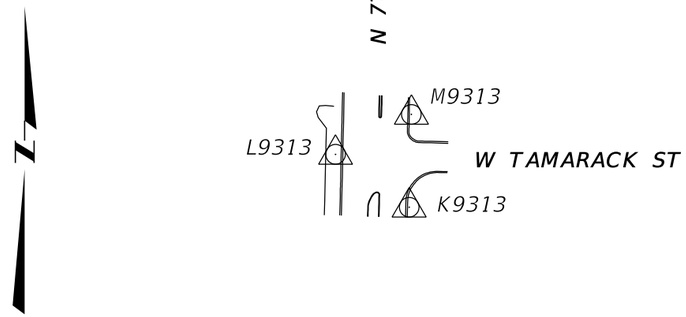
GPK NAME: JOBR13.GPK CHAIN NAME: OAK PROFILE NAME: Voak1

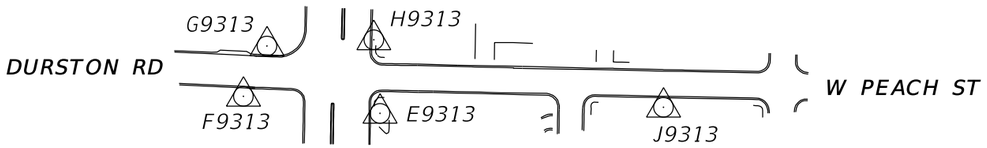
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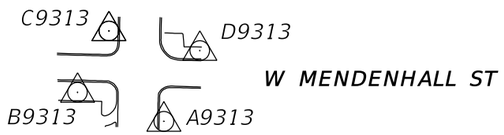
CONTROL DIAGRAM

SCALE: N/A









CONTROL NOTE:

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

DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE ÷ CSF = GROUND DISTANCE). THE CSF FOR THIS PROJECT IS 0.99943011

U9313

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
A9313	525,358.947	1,573,470.823	4822.81	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "A9313 2018", AT THE SE CORNER OF MENDENHAL & 7TH AVE., 1.6' EAST OF BACK OF SIDEWALK, 2.4'WEST OF SMALL RETAINING WALL, 15.2' SOUTH OF NO PARKING SIGN.
B9313	525,397.244	1,573,356.791	4821.85	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "B9313 2018", AT THE SW CORNER OF MENDENHAL & 7TH AVE., 3.3' SOUTH OF BACK OF SIDEWALK, 11.2' NORTH OF EDGE OF PAVEMENT OF PARKING LOT, 32' EAST OF TREE.
C9313	525,478.291	1,573,398.294	4822.23	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "C9313 2018", AT THE NW CORNER OF MENDENHAL & 7TH AVE., 7.7' WEST OF BACK OF SIDEWALK, 12.8' SOUTH OF BUSINESS SIGN, 18' EAST OF BUILDING.
D9313	525,452.382	1,573,518.189	4821.54	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "D9313 2018", AT THE NE CORNER OF MENDENHAL & 7TH AVE., 5.3' NORTH OF A NO PARKING SIGN, 4.6' SOUTH OF EDGE OF PAVEMENT OF PARKING LOT, 21.5' EAST OF A HYDRANT.
E9313	527,260.427	1,573,527.907	4796.14	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "E9313 2018", AT THE SE CORNER OF PEACH & 7TH AVE., 3.7' NORTH OF BACK OF SIDEWALK, 6.8' SE OF A HYDRANT, 12.3' EAST OF TOP BACK OF CURB.
F9313	527,282.930	1,573,347.582	4795.71	SET 1" COPPER MDT CONTROL CAP STAMPED "F9313 2018", AT THE SW CORNER OF PEACH & 7TH AVE., 3.6' SOUTH OF BACK OF SIDEWALK, 14.6' SW OF BIKE LANE SIGN, 20.8' OF BUILDING CORNER.
G9313	527,349.390	1,573,378.661	4795.61	SET 1" COPPER MDT CONTROL CAP STAMPED "F9313 2018", AT THE NW CORNER OF PEACH & 7TH AVE., 11.7' NORTH OF TOP BACK OF CURB, 11.8' NE OF BIKE LANE SIGN, 7.6' NW OF FIBER OPTIC ACCESS COVER.
H9313	527,357.592	1,573,519.803	4795.23	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "H9313 2018", AT THE NE CORNER OF PEACH & 7TH AVE., 2.0' NORTH OF SIDEWALK, 2.5' EAST OF TOP BACK OF CURB, 3.0' WEST OF BACK OF SIDEWALK.
J9313	527,268.501	1,573,902.224	4793.54	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "J9313 2018", EAST OF THE SE CORNER OF PEACH & 6TH AVE., 5.2' SOUTH OF BACK OF SIDEWALK, 14.5' NE OF CHAIN LINK FENCE CORNER, 19' SW OF OF A POWER POLE.
K9313	528,351.949	1,573,541.434	4783.35	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "K9313 2018", AT THE SE CORNER OF TAMARACK & 7TH AVE., 2.4' EAST OF TOP BACK OF CURB, 3' WEST OF BACK OF SIDEWALK, 30' NORTH OF A LIGHT POLE.
L9313	528,421.775	1,573,444.196	4783.48	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "L9313 2018", WEST OF THE INTERSECTION OF TAMARACK & 7TH AVE., 2.5' EAST OF SIDEWALK, 7.5' WEST OF TOP BACK OF CURB, 20.8' NORTH OF SIGNAL BOX.
M9313	528,474.469	1,573,544.314	4781.88	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "M9313 2018", AT THE NE CORNER OF TAMARACK & 7TH AVE., 2.8' EAST OF TOP BACK OF CURB, 3.4' WEST OF BACK OF SIDEWALK, 25' SOUTH OF NO PARKING SIGN.
N9313	529,975.482	1,573,635.210	4764.29	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "N9313 2018", AT THE SE CORNER OF OAK & 7TH AVE., 2.3' SOUTH OF TOP BACK OF CURB, 3.8' NORTH OF BACK OF SIDEWALK, 35' NE OF POWER POLE.
P9313	529,978.173	1,573,421.719	4765.76	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "P9313 2018", AT THE SW CORNER OF OAK & 7TH AVE., 2.1' SOUTH OF BACK OF SIDEWALK, 4' NORTH OF TOP BACK OF CURB, 30' NE OF HANDICAP AND NO PARKING SIGN.
R9313	530,066.873	1,573,421.762	4764.96	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "R9313 2018", AT THE NW CORNER OF OAK & 7TH AVE., 2.6' SOUTH OF BACK OF SIDEWALK, 3.6' NORTH OF TOP BACK OF CURB, 19' EAST OF NO PARKING SIGN.
S9313	530,057.831	1,573,613.829	4764.02	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "S9313 2018", AT THE NE CORNER OF OAK & 7TH AVE., 14' NW OF HYDRANT, 14' SE OF PED, 18.6' SW OF LUBE SIGN.
T9313	530,003.970	1,575,081.755	4752.75	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "T9313 2018", ON THE NORTH SIDE OF OAK ST., ACROSS FROM FAIRGROUNDS ENTRANCE, 15.7' NORTH OF EDGE OF PAVEMENT, 50' WEST OF RIGHT TURN LANE SIGN.
U9313	529,914.633	1,575,984.570	4751.31	SET 5/8" x 30" REBAR WITH 1.5" MDT ALUMINUM CONTROL CAP STAMPED "U9313 2018", ON THE SOUTH SIDE OF OAK ST., 1.8' NORTH OF EDGE OF PAVEMENT, 4' WEST OF WATER VALVE, 15' NE OF TELEPHONE PED.

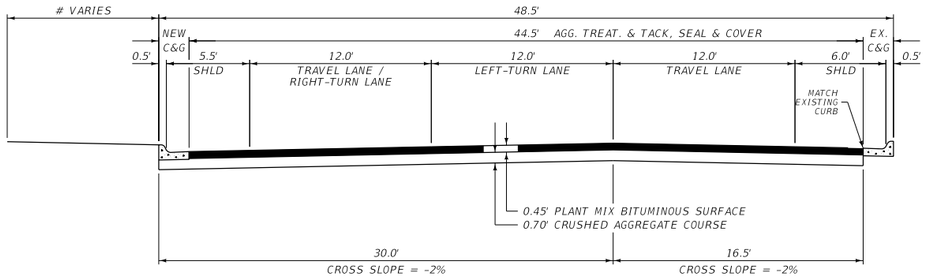
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TYPICAL SECTION NO. 1

W PEACH ST

202+27.21	TO	202+56.24	INTERSECTION AREA MEASURED ON CAD
202+56.24	TO	204+03.18	
204+03.18	TO	204+36.97	TRANS. TYP. NO. 1 TO TYP. NO. 2

℄



THIS AREA INCLUDES A COMBINATION OF SIDEWALK, SODDING AND COLORED SIDEWALK SEE DETAILS AND PLAN SHEETS

QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet		20.03	32.55	square yards PER STATION	494	494	988
cubic yards PER STATION		74.2	120.6	tons PER STATION	0.88		
tons PER STATION		143.0		gals. PER STATION			49
square yards PER STATION	494						

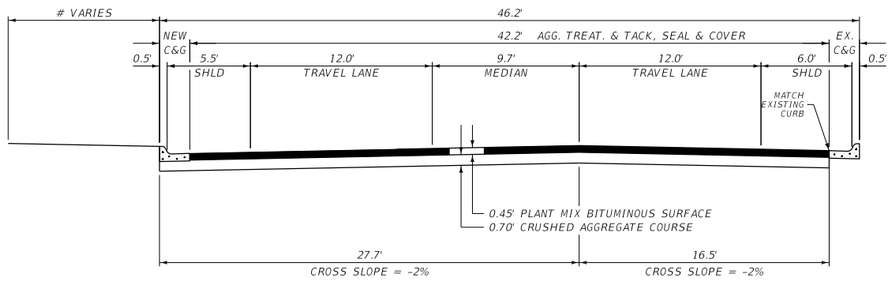
*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 2

W PEACH ST

204+36.97			ONLY
204+36.97	TO	204+86.97	TRANS. TYP. NO. 2 TO TYP. NO. 3

℄



THIS AREA INCLUDES A COMBINATION OF SIDEWALK, AND COLORED SIDEWALK SEE DETAILS AND PLAN SHEETS

QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet		18.99	30.94	square yards PER STATION	469	469	938
cubic yards PER STATION		70.3	114.6	tons PER STATION	0.84		
tons PER STATION		135.5		gals. PER STATION			47
square yards PER STATION	469						

*BASED ON 2 APPLICATIONS

3	MONTANA Department of Transportation	C:\DGN\9313000rdtyp001.dgn	DESIGNED BY	J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:42:32 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 4

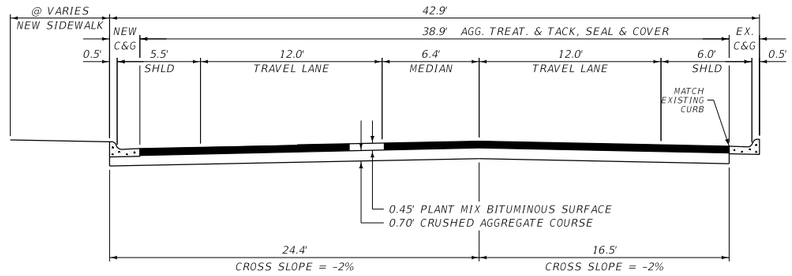
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TYPICAL SECTION NO. 3

W PEACH ST

204+86.97 ONLY
204+86.97 TO 205+54.57 TRANS. TYP. NO. 3 TO TYP. NO. 4

℄



@ SEE DETAILS FOR SIDEWALK WIDTH

QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet		17.51	28.63	square yards PER STATION	432	432	864
cubic yards PER STATION		64.9	106.0	tons PER STATION	0.77		
tons PER STATION		125.1		gals. PER STATION			43
square yards PER STATION	432						

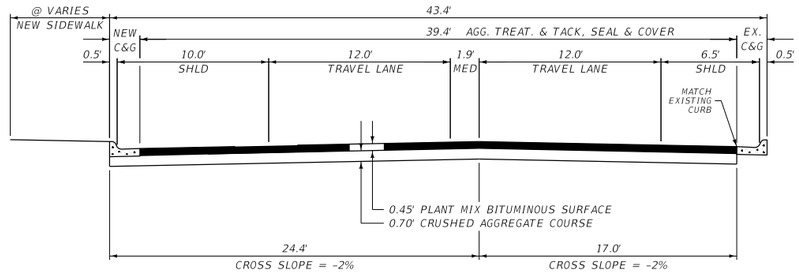
*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 4

W PEACH ST

205+54.57 ONLY
205+54.57 TO 205+83.18 TRANS. TYP. NO. 4 TO TYP. NO. 5

℄



@ SEE DETAILS FOR SIDEWALK WIDTH

QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet		17.73	28.98	square yards PER STATION	438	438	876
cubic yards PER STATION		65.7	107.3	tons PER STATION	0.78		
tons PER STATION		126.6		gals. PER STATION			44
square yards PER STATION	438						

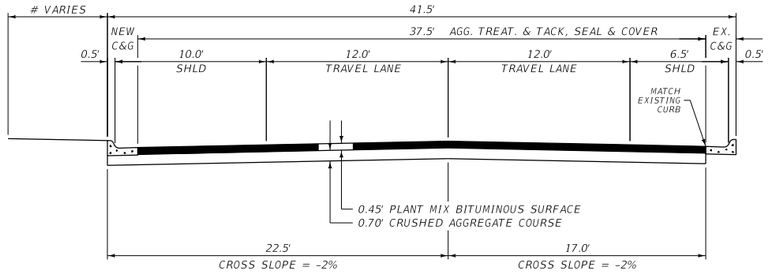
*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 5

W PEACH ST

205+83.18 TO 207+39.00

℄



THIS AREA INCLUDES A COMBINATION OF SIDEWALK AND COLORED SIDEWALK SEE DETAILS AND PLAN SHEETS

QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet		16.88	27.65	square yards PER STATION	417	417	834
cubic yards PER STATION		62.5	102.4	tons PER STATION	0.74		
tons PER STATION		120.5		gals. PER STATION			42
square yards PER STATION	417						

*BASED ON 2 APPLICATIONS

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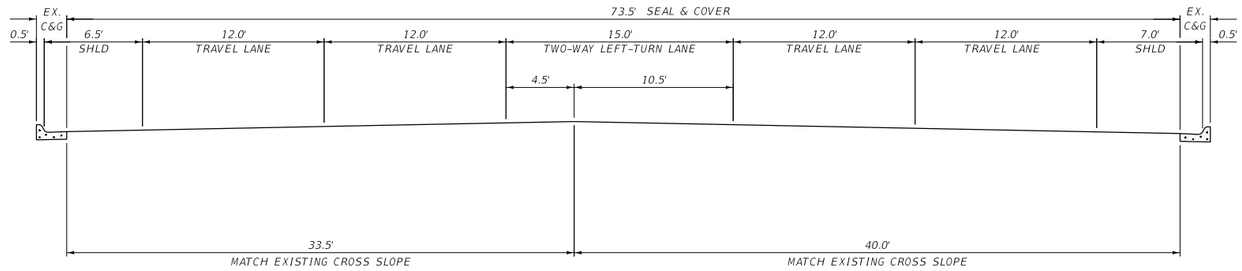
AWARD COPY

TYPICAL SECTION NO. 6

W OAK ST

℄

300+00.00 TO 305+38.50
305+38.50 TO 306+98.50 TRANS. TYP. NO. 6 TO TYP. NO. 7



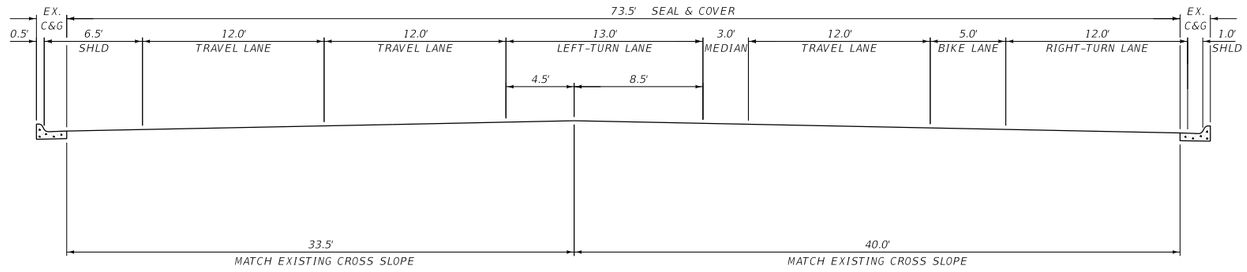
QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	817
cubic yards PER STATION		tons PER STATION	1.46
tons PER STATION		gals. PER STATION	
square yards PER STATION	817		

TYPICAL SECTION NO. 7

W OAK ST

℄

306+98.50 ONLY
306+98.50 TO 307+26.44 INTERSECTION AREA MEASURED ON CAD, THEN TO TYP. NO. 8



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	817
cubic yards PER STATION		tons PER STATION	1.46
tons PER STATION		gals. PER STATION	
square yards PER STATION	817		

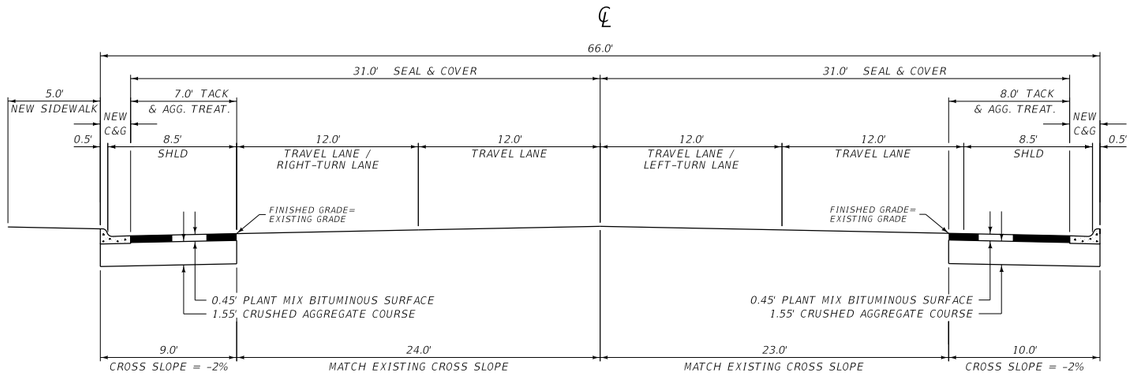
3	MONTANA Department of Transportation	C:\DGN\9313000rdtyp002.dgn	DESIGNED BY	J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:42:54 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 7

AWARD COPY

TYPICAL SECTION NO. 8

W OAK ST

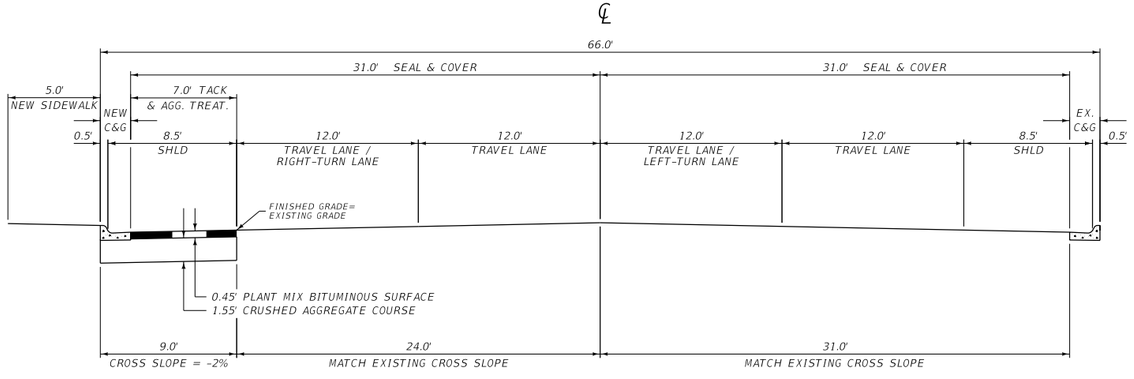
308+01.24 TO 308+98.50 INTERSECTION AREA MEASURED ON CAD
308+98.50 ONLY, THEN TO TYP. NO. 9



TYPICAL SECTION NO. 9

W OAK ST

308+98.50 TO 310+00.17 THEN TO TYP. NO. 10



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet		3.15	13.95	square yards PER STATION	689	78	156
cubic yards PER STATION		11.7	51.7	tons PER STATION	1.23		
tons PER STATION		22.6		gals. PER STATION			8
square yards PER STATION	689						

*BASED ON 2 APPLICATIONS

3 / 1	MONTANA Department of Transportation	C:\DGN\9313000rdtyp002.dgn	DESIGNED BY J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
		3/31/2025	REVIEWED BY R. BARBULA	10/4/2024			
		7:42:59 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	8

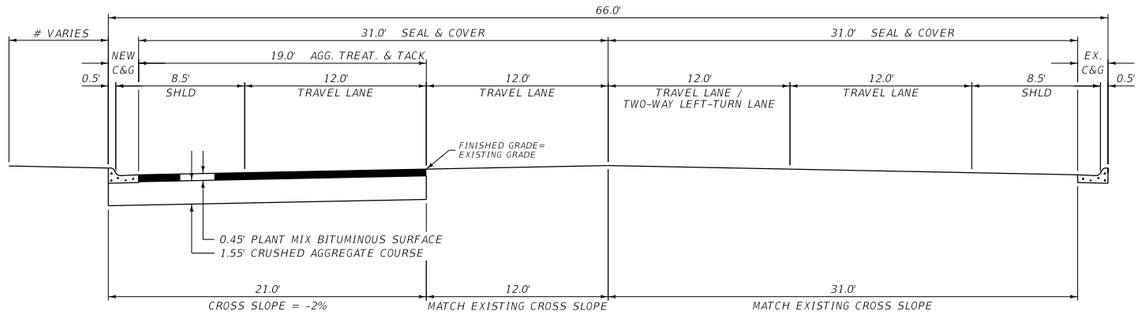
AWARD COPY

TYPICAL SECTION NO. 10

W OAK ST

310+00.17 TO 313+57.55 THEN TO TYP. NO. 11

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THIS AREA INCLUDES A COMBINATION OF SIDEWALK AND SODDING SEE DETAILS AND PLAN SHEETS

QUANTITIES						
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE		EMULSIFIED ASPHALT SEAL	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet		8.55	32.55	square yards PER STATION	689	211	422
cubic yards PER STATION		31.7	120.6	tons PER STATION	1.23		
tons PER STATION		61.1		gals. PER STATION			21
square yards PER STATION	689						

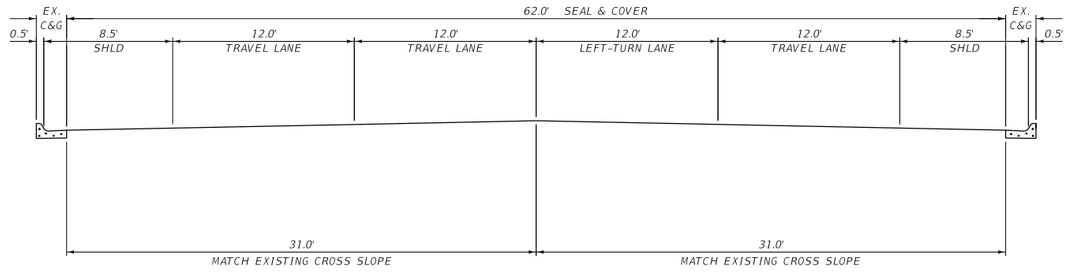
*BASED ON 2 APPLICATIONS

TYPICAL SECTION NO. 11

W OAK ST

313+57.55 TO 315+08.00

℄



QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	COVER		EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	689
cubic yards PER STATION		tons PER STATION	1.23
tons PER STATION		gals. PER STATION	
square yards PER STATION	689		

2	MONTANA Department of Transportation	C:\DGN\9313000rdtyp002.dgn	DESIGNED BY	J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
1		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:43:04 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 9

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	NET	+	-	FOR	AGGREGATE sq. yards COVER TYPE 2	AGGREGATE tons COMM. MIX 3/4" PG 58V-34	AGGREGATE tons COMM. MIX MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL sq. yards AGG. TREAT.	CONCRETE sq. yards CONCRETE SIDEWALK # 6"	REMARKS
W PEACH ST MAINLINE															
202+27.21	202+56.24	29.03	29.03				181	52		43	0.3	18	181		* TYP. NO. 1
202+56.24	204+03.18	146.94	146.94				726	210		177	1.3	72	726		TYP. NO. 1
204+03.18	204+36.97	33.79	33.79				163	47		40	0.3	16	163		TRANS. TYP. NO. 1 TO TYP. NO. 2
204+36.97	204+86.97	50.00	50.00				225	65		55	0.4	23	225		TRANS. TYP. NO. 2 TO TYP. NO. 3
204+86.97	205+54.57	67.60	67.60				294	85		72	0.5	29	294		TRANS. TYP. NO. 3 TO TYP. NO. 4
205+54.57	205+83.18	28.61	28.61				122	35		30	0.2	12	122		TRANS. TYP. NO. 4 TO TYP. NO. 5
205+83.18	207+39.00	155.82	155.82				650	188		160	1.2	65	650		TYP. NO. 5
W OAK ST MAINLINE															
300+00.00	305+38.50	538.50	538.50				4,400				7.9				TYP. NO. 6
305+38.50	306+98.50	160.00	160.00				1,307				2.3				TRANS. TYP. NO. 6 TO TYP. NO. 7
306+98.50	307+26.44	27.94	27.94				357				0.6				* TYP. NO. 7
308+01.24	308+98.50	97.26	97.26				902	58		104	1.6	20	200		* TYP. NO. 8
308+98.50	310+00.17	101.67	101.67				701	23		53	1.3	8	79		TYP. NO. 9
310+00.17	313+57.55	357.38	357.38				2,462	218		431	4.4	75	754		TYP. NO. 10
313+57.55	315+08.00	150.45	150.45				1,037				1.9				TYP. NO. 11
						ADDITIONAL SURFACING	508	123	18	29	1.7	47	523	38.4	
TOTAL		1,944.99	1,944.99	~	~		14,035	1,104	18	1,194	25.9	385	3,917	38.4	

* AREA MEASURED ON CAD
\# GRAVEL UNDER THE CONCRETE IS INCLUDED IN COST OF CONCRETE

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	NET	+	-	FOR	AGGREGATE sq. yards COVER TYPE 2	AGGREGATE tons COMM. MIX 3/4" PG 58V-34	AGGREGATE tons COMM. MIX MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL sq. yards AGG. TREAT.	CONCRETE sq. yards CONCRETE SIDEWALK # 6"	* REMARKS
51+22.44	51+59.97					N 7TH AVE & W MENDENHALL ST SE CORNER	30	10			0.1	3	30		4' BEYOND FRONT OF GUTTER
51+34.15	51+62.50					N 7TH AVE & W MENDENHALL ST SW CORNER	14	5			0.1	1	14		2' BEYOND FRONT OF GUTTER
51+84.89	52+25.16					N 7TH AVE & W MENDENHALL ST NE CORNER	35	11			0.1	4	35		5' BEYOND FRONT OF GUTTER
51+89.05	52+25.68					N 7TH AVE & W MENDENHALL ST NW CORNER	43	14			0.1	4	43		5' BEYOND FRONT OF GUTTER
70+15.12	70+32.68					N 7TH AVE & DURSTON RD SW CORNER		5				2	15		TIE INTO PAVEMENT BEHIND SIDEWALK
70+15.77	70+50.12					N 7TH AVE & DURSTON RD SW CORNER	55	18			0.1	6	55		8' BEYOND FRONT OF GUTTER
70+78.32	71+24.95					N 7TH AVE & DURSTON RD NW CORNER	56	18			0.1	6	56		7' BEYOND FRONT OF GUTTER
81+07.94	81+52.31					N 7TH AVE & W TAMARACK ST SE CORNER	12	4			0.1	1	12		2' BEYOND FRONT OF GUTTER
81+27.49	81+51.91					N 7TH AVE & W TAMARACK ST SW CORNER	12	4			0.1	1	12		4' BEYOND FRONT OF GUTTER
81+84.89	82+17.91					N 7TH AVE & W TAMARACK ST NE CORNER	38	12			0.1	4	38		6' BEYOND FRONT OF GUTTER
81+86.78	82+20.85					N 7TH AVE & W TAMARACK ST NW CORNER	16	5			0.1	2	16		4' BEYOND FRONT OF GUTTER
97+01.15	97+37.73					N 7TH AVE & W OAK ST SW CORNER	13	4			0.1	1	13		2' BEYOND FRONT OF GUTTER
98+07.47	98+51.18					N 7TH AVE & W OAK ST NW CORNER	14	4			0.1	1	14		2' BEYOND FRONT OF GUTTER
207+39.00	207+65.80					W PEACH ST & N 5TH AVE & NW CORNER	28	9			0.1	3	28		8.5' BEYOND FRONT OF GUTTER
						PRIVATE APPROACHES (5)	142	~	18	29	0.4	8	142	38.4	
SUBTOTAL		~	~	~	~		508	123	18	29	1.7	47	523	38.4	

\# GRAVEL UNDER THE CONCRETE IS INCLUDED IN COST OF CONCRETE
* SEE DETAILS

AWARD COPY

SUMMARY

SIDEWALK

STATION		sq. yards										linear feet	each	REMARKS
		CONCRETE SIDEWALK				CONCRETE SIDEWALK COLORED		DETECTABLE WARNING DEVICES		REMOVE SIDEWALK #		WIDTH	SIDEWALK DRAIN	
		4"		6"		4"		TYPE 1						
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT			
51+27.13	51+54.09				33.2				2.1		27.2	VARIES		N 7TH AVE & W MENDENHALL ST SE CORNER
51+34.18	51+58.35			49.7				2.7		28.1		VARIES		N 7TH AVE & W MENDENHALL ST SW CORNER
51+92.13	52+25.10				52.7				2.9		28.6	VARIES		N 7TH AVE & W MENDENHALL ST NE CORNER
51+95.89	52+25.68			54.1				2.4		60.6		VARIES		N 7TH AVE & W MENDENHALL ST NW CORNER
70+01.83	70+39.91				59.3				2.4		38.5	VARIES		N 7TH AVE & W PEACH ST SE CORNER
70+15.68	70+40.03			50.3				2.4		61.8		VARIES		N 7TH AVE & DURSTON RD SW CORNER
70+84.93	71+22.19			79.4				2.4		77.4		VARIES		N 7TH AVE & DURSTON RD NW CORNER
70+88.53	71+15.41				38.3				2.7		41.8	VARIES		N 7TH AVE & W PEACH ST NE CORNER
81+09.59	81+46.34				46.0				2.7		39.1	VARIES		N 7TH AVE & W TAMARACK ST SE CORNER
81+16.61	81+35.63	20.0						1.1		64.3		VARIES		N 7TH AVE & W TAMARACK ST SW CORNER
81+90.45	82+20.16				58.4				2.7		56.3	VARIES		N 7TH AVE & W TAMARACK ST NE CORNER
81+98.26	82+19.99	23.3						1.1		81.2		VARIES		N 7TH AVE & W TAMARACK ST NW CORNER
96+86.06	97+25.29				57.4				2.2		71.4	VARIES		N 7TH AVE & W OAK ST SE CORNER
96+92.32	97+31.48			50.5				2.7		33.0		VARIES		N 7TH AVE & W OAK ST SW CORNER
97+99.83	98+44.51				109.3				2.7		74.2	VARIES		N 7TH AVE & W OAK ST NE CORNER
98+09.01	98+51.15			89.4				2.7		90.9		VARIES		N 7TH AVE & W OAK ST NW CORNER
202+56.17	203+63.73	62.6								62.0		5.0		W PEACH ST MAINLINE
203+61.07													1	32' LT., SEE DETAIL
203+63.73	204+03.20			42.0						20.8		5.0		VERIZON APPROACH
204+03.20	205+22.47	28.2				29.6				71.7		VARIES		W PEACH ST MAINLINE
205+22.47	205+54.56			* 19.8						17.4		5.0		NEW AGE ARTISANS APPROACH
205+54.56	206+10.11	31.7								32.0		5.0		W PEACH ST MAINLINE
206+10.11	206+44.68			45.9						27.7		5.0		PRIVATE APPROACH
206+44.68	207+39.00	52.4				23.2				50.7		5.0		W PEACH ST MAINLINE
207+39.00	207+55.33	9.9				2.4		0.9		9.8		5.0		W PEACH ST & N 5TH AVE NW CORNER
308+59.83	309+41.57	45.4								43.3		5.0		W OAK ST MAINLINE
309+41.57	309+90.67			* 28.1						26.4		5.0		LUBE ALLEY APPROACH
309+90.67	312+29.68	134.9								122.2		5.0		W OAK ST MAINLINE
312+29.68	312+78.98			40.0						28.3		5.0		COMFORT INN APPROACH
312+78.98	313+57.55	44.6								43.0		5.0		W OAK ST MAINLINE
SUBTOTAL		453.0	~	549.2	454.6	55.2	~	18.4	20.4	1,052.6	377.1	~	1	
TOTAL		453.0		1,003.8		55.2		38.8		~		~	1	

FOR INFORMATION ONLY - INCLUDE IN THE COST OF STREET EXCAVATION
* INCLUDES RETAINING WALL ON OUTSIDE OF APPROACH. SEE DETAILS

GRADING

STATION	cu. yards		REMARKS
	STREET EXC.	EMB.+	
202+27.21			
	1,210		^* W PEACH ST
207+39.00			
308+59.83			
	993	8	^ W OAK ST
313+57.55			
	370		ADDITIONAL GRADING
TOTAL	2,573	# 8	

FOR INFORMATION ONLY
^ INCLUDES VOLUME AT AREAS OF APPROACHES
* INCLUDES VOLUME OF EXCAVATION FOR PAVEMENT AND CURB AND GUTTER THROUGH THE NE & SE CORNERS OF W PEACH ST

ADDITIONAL GRADING

STATION		cu. yards INCL. IN GRADING FRAME		REMARKS
		STREET EXC. #	EMB.+	
FROM	TO			
51+22.49	51+54.09	20		N 7TH AVE & W MENDENHALL ST SE CORNER
51+34.18	51+58.35	20		N 7TH AVE & W MENDENHALL ST SW CORNER
51+92.13	52+25.10	20		N 7TH AVE & W MENDENHALL ST NE CORNER
51+95.89	52+25.68	25		N 7TH AVE & W MENDENHALL ST NW CORNER
70+07.35	70+39.91	15		* N 7TH AVE & W PEACH ST SE CORNER
70+15.68	70+40.03	30		N 7TH AVE & DURSTON RD SW CORNER
70+84.93	71+22.19	35		N 7TH AVE & DURSTON RD NW CORNER
70+88.53	71+15.41	15		* N 7TH AVE & W PEACH ST NE CORNER
81+05.85	81+46.34	15		N 7TH AVE & W TAMARACK ST SE CORNER
81+20.77	81+40.27	5		N 7TH AVE & W TAMARACK ST SW CORNER
81+90.45	82+17.16	25		N 7TH AVE & W TAMARACK ST NE CORNER
81+94.63	82+15.71	10		N 7TH AVE & W TAMARACK ST NW CORNER
96+71.63	97+28.60	45		N 7TH AVE & W OAK ST SE CORNER
96+98.29	97+31.48	20		N 7TH AVE & W OAK ST SW CORNER
97+99.83	98+48.43	45		N 7TH AVE & W OAK ST NE CORNER
98+09.01	98+49.18	10		N 7TH AVE & W OAK ST NW CORNER
203+59.35	203+61.15	5		W PEACH ST SIDEWALK SWALE DITCH
207+39.00	207+55.33	10		W PEACH ST & N 5TH AVE NW CORNER
SUBTOTAL		370	~	

INCLUDES VOLUME AT AREAS OF NEW SIDEWALK, PAVEMENT EXCAVATION BEYOND FRONT OF GUTTER, & CURB AND GUTTER
* INCLUDES VOLUME AT AREAS OF NEW SIDEWALK ONLY

CURB

STATION		linear feet				REMARKS
		CONCRETE CURB AND GUTTER		REMOVE CURB AND GUTTER #		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	
51+22.49	51+54.09		61.7		61.7	N 7TH AVE & W MENDENHALL ST SE CORNER
51+34.18	51+58.35	51.8		51.8		N 7TH AVE & W MENDENHALL ST SW CORNER
51+92.13	52+25.10		55.0		55.0	N 7TH AVE & W MENDENHALL ST NE CORNER
51+95.89	52+25.68	53.8		53.8		N 7TH AVE & W MENDENHALL ST NW CORNER
70+07.35	70+39.91		59.0		59.0	N 7TH AVE & W PEACH ST SE CORNER
70+15.68	70+40.03	52.0		52.0		N 7TH AVE & DURSTON RD SW CORNER
70+84.93	71+22.19	62.0		62.0		N 7TH AVE & DURSTON RD NW CORNER
70+88.53	71+15.41		42.6		58.6	N 7TH AVE & W PEACH ST NE CORNER
81+05.85	81+46.34		51.2		51.2	N 7TH AVE & W TAMARACK ST SE CORNER
81+20.77	81+40.27	19.5		19.5		N 7TH AVE & W TAMARACK ST SW CORNER
81+90.45	82+17.16		50.0		52.9	N 7TH AVE & W TAMARACK ST NE CORNER
81+94.63	82+15.71	21.1		21.1		N 7TH AVE & W TAMARACK ST NW CORNER
96+71.63	97+28.60		124.2		117.1	N 7TH AVE & W OAK ST SE CORNER
96+98.29	97+31.48	53.7		53.7		N 7TH AVE & W OAK ST SW CORNER
97+99.83	98+48.43		74.5		79.6	N 7TH AVE & W OAK ST NE CORNER
98+09.01	98+49.18	66.8		66.8		N 7TH AVE & W OAK ST NW CORNER
202+56.17	207+39.00	* 524.8		524.8		W PEACH ST
207+39.00	207+55.33	21.1		26.6		W PEACH ST & N 5TH AVE NW CORNER
308+59.83	313+57.55	* 555.1		541.9		W OAK ST
SUBTOTAL		1,481.7	518.2	1,474.0	535.1	
TOTAL		2,000		~		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF STREET EXCAVATION
* INCLUDES CURB AND GUTTER ON OUTSIDE OF APPROACH. SEE DETAILS

SOD *

STATION		sq. yards	REMARKS
		SODDING	
FROM	TO		
51+27.36	51+49.19	8.8	N 7TH AVE & W MENDENHALL ST SE CORNER
51+33.01	51+58.34	9.4	N 7TH AVE & W MENDENHALL ST SW CORNER
70+98.87	71+17.41	7.4	N 7TH AVE & W PEACH ST NE CORNER
81+07.30	81+47.90	10.9	N 7TH AVE & W TAMARACK ST SE CORNER
81+16.60	81+63.92	43.7	N 7TH AVE & W TAMARACK ST SW CORNER
81+63.92	82+17.94	53.3	N 7TH AVE & W TAMARACK ST NW CORNER
82+12.64	82+20.18	2.5	N 7TH AVE & W TAMARACK ST NE CORNER
96+71.62	97+28.98	14.2	N 7TH AVE & W OAK ST SE CORNER
96+91.09	97+26.73	10.3	N 7TH AVE & W OAK ST SW CORNER
98+04.82	98+46.32	15.7	N 7TH AVE & W OAK ST NE CORNER
98+08.98	98+52.11	3.0	N 7TH AVE & W OAK ST NW CORNER
202+56.26	207+39.00	179.9	W PEACH ST MAINLINE
207+39.00	207+55.51	3.7	W PEACH ST & N 5TH AVE NW CORNER
308+59.83	313+57.55	343.2	W OAK ST MAINLINE
TOTAL		706.0	

* SEE DETAIL

AWARD COPY

SUMMARY

FIRE HYDRANTS

STATION	each				REMARKS
	REMOVE FIRE HYDRANT		HYDRANT ASSEMBLY *		
	LEFT	RIGHT	LEFT	RIGHT	
97+99.0		1		1	89' RT.
204+70.3	1		1		20' LT.
SUBTOTAL	1	1	1	1	
TOTAL	2		2		

FUNDING - 75% STATE, 25% CITY COST SHARE
* SEE CITY OF BOZEMAN 7TH AVENUE HYDRANT RELOCATIONS DESIGN REPORT

VALVE BOXES

STATION	each						REMARKS
	ADJUST VALVE BOX *				CURB STOP VALVE * ^^		
	WATER VALVE		GAS VALVE		WATER VALVE		
	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
70+14.1		1					49' RT.
70+26.4	1						49' LT.
70+29.2	1						46' LT.
70+31.5	1						65' LT.
70+41.8	1						45' LT.
203+72.7			1				32' LT.
204+14.0	1						11' LT.
204+17.0					1		39' LT.
206+18.1	1						8' LT.
206+47.0	1						6' LT.
206+47.4	1						17' LT.
310+05.6	1						20' LT.
310+08.5	1						23' LT.
SUBTOTAL	10	1	1	~	1	~	
TOTAL	12				1		

FUNDING - 75% STATE, 25% CITY COST SHARE
* CONCRETE APRON - SEE DETAILED DRAWINGS (INCLUDE APRON IN COST OF ADJUSTMENT)
^^ SEE CITY OF BOZEMAN 7TH AVENUE HYDRANT RELOCATIONS DESIGN REPORT

TREES *

STATION	each		REMARKS
	REMOVE TREES	TREE	
81+16	1		59' RT.
202+78		1	45' LT.
202+81	1		29' LT.
203+08		1	46' LT.
203+14	1		28' LT.
203+48		1	46' LT.
203+49	1		29' LT.
204+53		1	41' LT.
204+53	1		28' LT.
204+89		1	35' LT.
204+96	1		24' LT.
205+14		1	43' LT.
205+16	1		28' LT.
308+84		1	53' LT.
308+91	1		45' LT.
309+09		1	52' LT.
309+16	1		45' LT.
310+55	1		42' LT.
310+55		1	54' LT.
310+72	1		47' LT.
310+72		1	59' LT.
310+84	1		42' LT.
310+84		1	54' LT.
310+96	1		46' LT.
310+96		1	58' LT.
311+15	1		41' LT.
311+15		1	53' LT.
311+31	1		45' LT.
311+31		1	57' LT.
311+44	1		42' LT.
311+44		1	54' LT.
313+37	1		32' LT.
313+55		1	50' LT.
TOTAL	17	16	

* SEE DETAIL & SPECIAL PROVISIONS

STORM DRAIN STRUCTURE SCHEDULE

NAME	STATION	each							linear feet	REMARKS
		REMOVE CURB INLET	MANHOLE BASE 48"	CURB INLET FRAME AND GRATE	CURB INLET GRATE **	CONCRETE APRON	MODIFY DROP INLETS	CONNECT TO EXISTING INLET #	PVC	
			TYPE 3	TYPE A	TYPE A				18"	
OAK-SE	96+91.86	1	1	1		1		1	6	* 49' RT., N 7TH AVE & W OAK ST SE CORNER
OAK-NW	98+28.88					1	1			58' LT., N 7TH AVE & W OAK ST NW CORNER
5TH-NW	207+56.47				1					32' LT., N 5TH AVE & W PEACH ST NW CORNER
TOTAL		1	1	1	1	2	1	~	6	

* SEE SPECIAL PROVISION
** KEEP EXISTING FRAME. REPLACE GRATE ONLY. MEASURED UNDER BID ITEM 604 010 661 CURB INLET FRAME AND GRATE
# FOR INFORMATION ONLY. NOT MEASURED SEPARATELY FOR PAYMENT. SEE SPECIAL PROVISION.

MANHOLES IN PLACE

STATION	each		REMARKS
	ADJUST MANHOLE *		
	WATER		
	LEFT	RIGHT	
81+91.9		1	60' RT.
SUBTOTAL	~	1	
TOTAL	1		

FUNDING - 75% STATE, 25% CITY FOR COST SHARE
* CONCRETE APRON - SEE DETAILED DRAWINGS (INCLUDE APRON IN COST OF ADJUSTMENT)

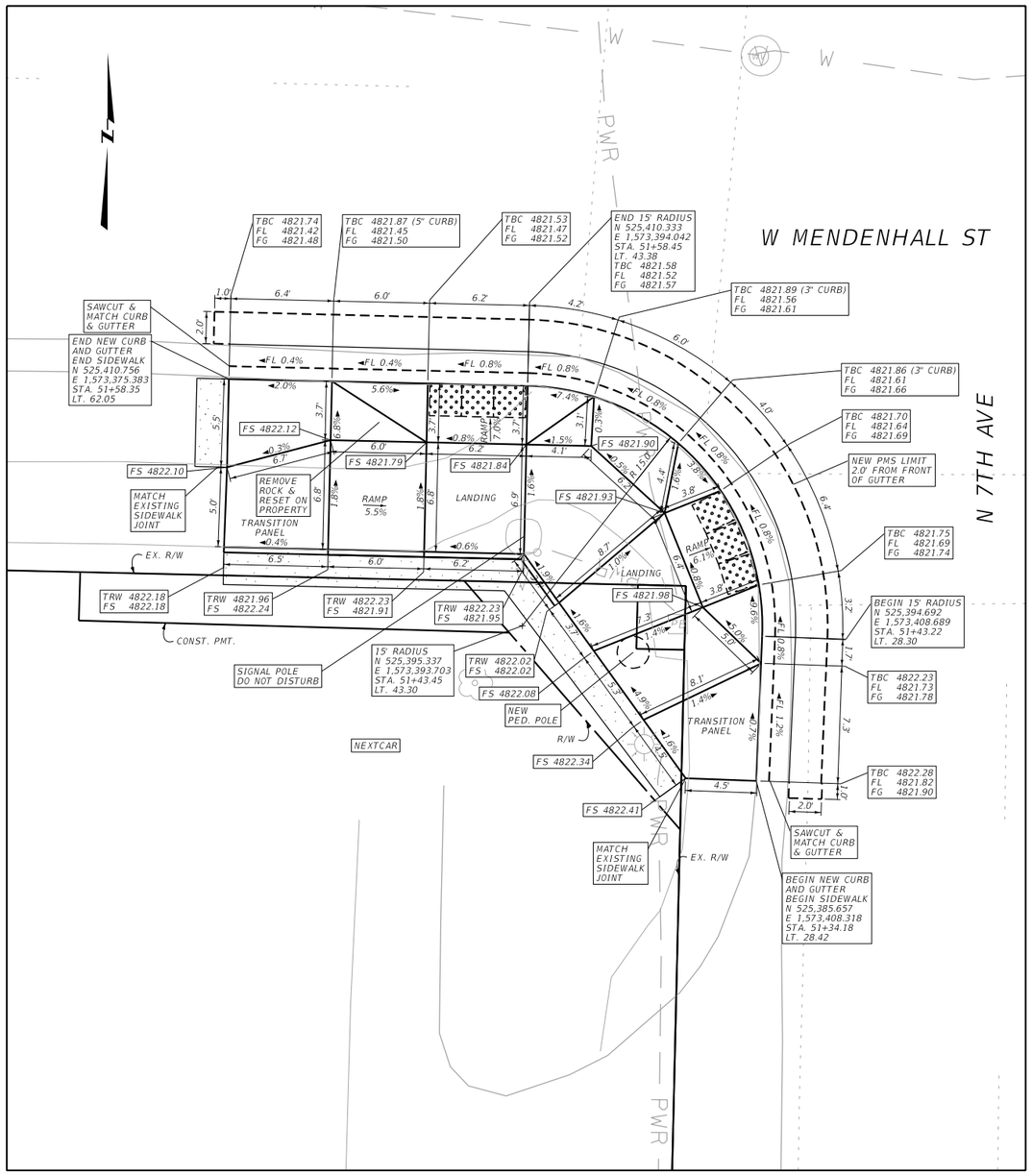
PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	86		86
STRIPING - YELLOW PAINT	gallon	32		32
WORDS & SYMBOLS - WHITE PAINT	gallon	28		28
WORDS & SYMBOLS - YELLOW PAINT	gallon	4		4
STRIPING - WHITE EPOXY	gallon		58	58
STRIPING - YELLOW EPOXY	gallon		22	22
WORDS & SYMBOLS - WHITE EPOXY	gallon		17	17
WORDS & SYMBOLS - YELLOW EPOXY	gallon		4	4
CURB MARKING - YELLOW EPOXY	gallon		79	79
FINAL SWEEP AND BROOM	course mile			0.8

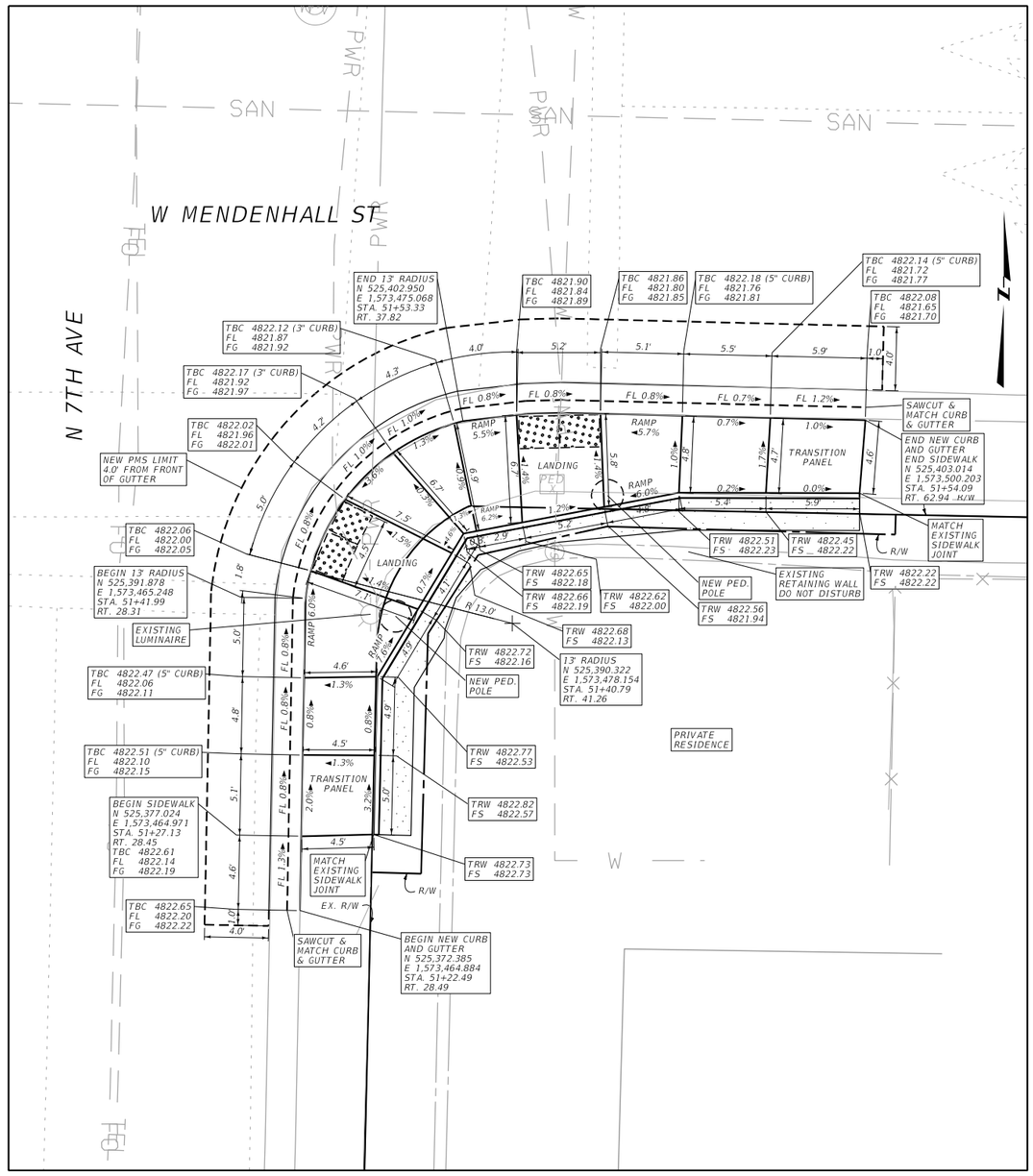
BASED ON 2 APPLICATIONS

AWARD COPY

INTERSECTION OF N 7TH AVE - W MENDENHALL ST
SOUTHWEST CORNER



INTERSECTION OF N 7TH AVE - W MENDENHALL ST
SOUTHEAST CORNER



LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

DETECTABLE WARNING DEVICES

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

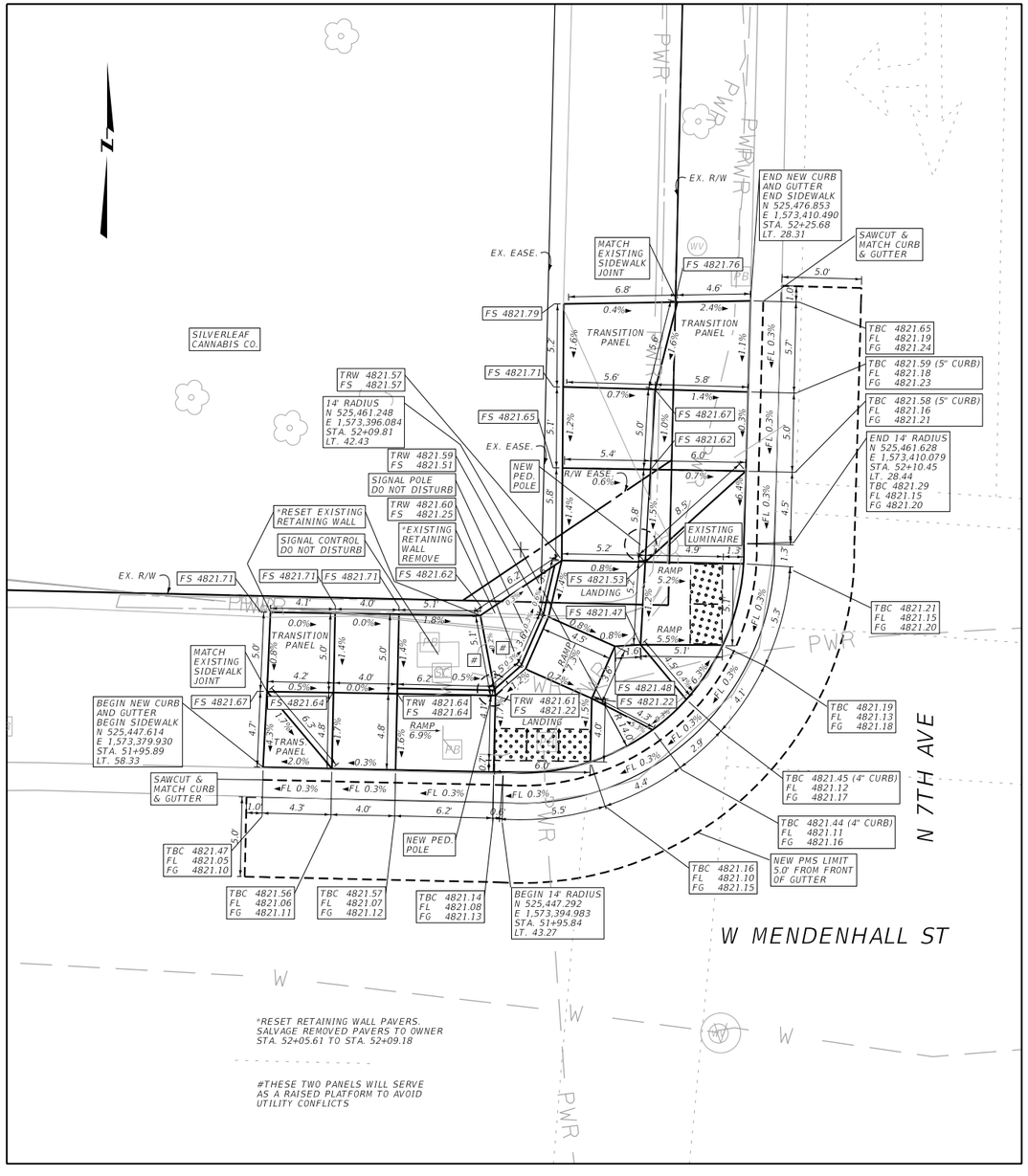
N 7TH AVE & W MENDENHALL ST CURB RAMP DETAILS

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet001.dgn	DESIGNED BY	J. BERAN	7/14/2023	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024	GALLATIN COUNTY	UPN 9313000 / 13
		7:43:46 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025		

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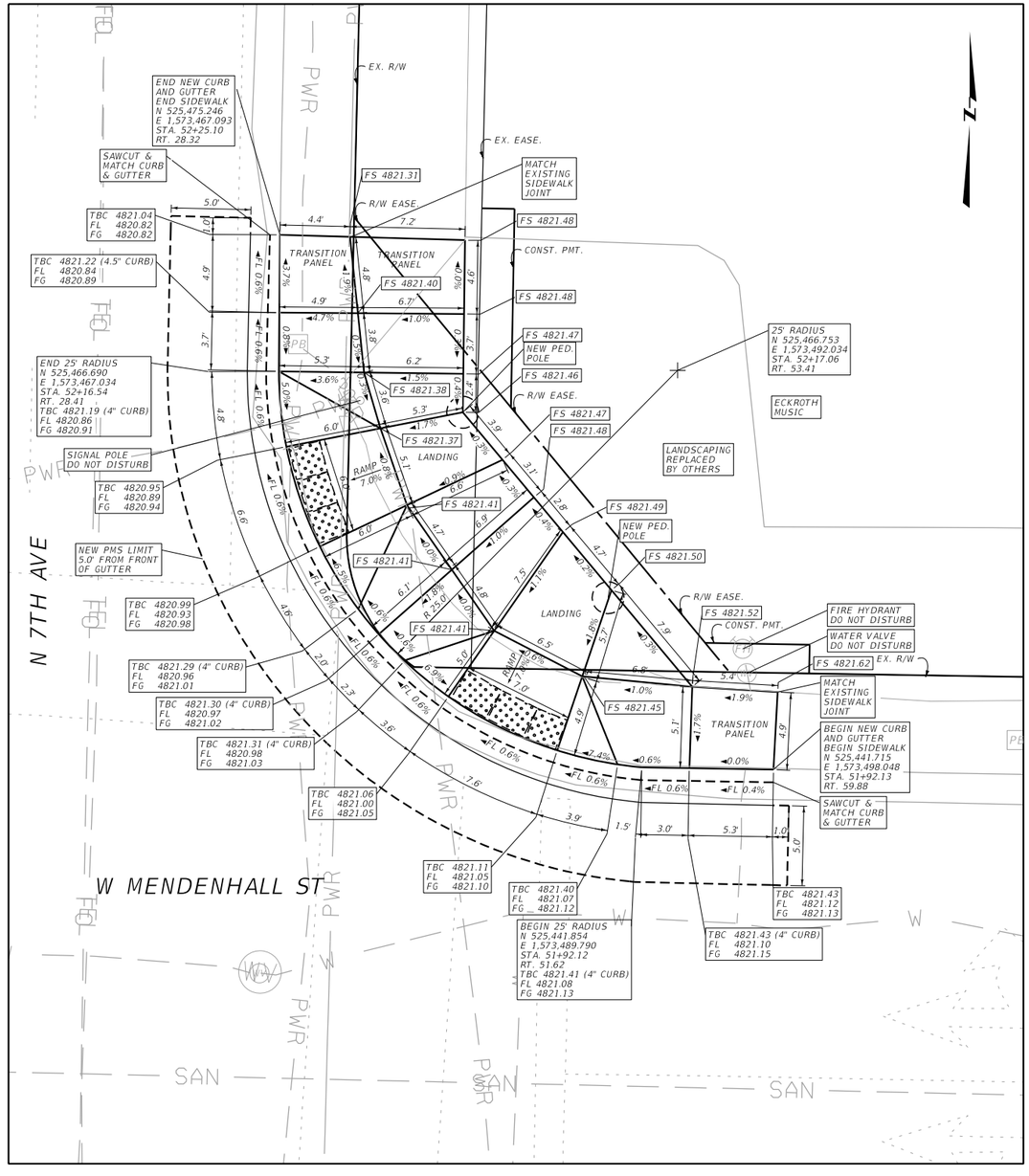
INTERSECTION OF N 7TH AVE - W MENDENHALL ST)
NORTHWEST CORNER



*RESET RETAINING WALL PAVERS. SALVAGE REMOVED PAVERS TO OWNER STA. 52+05.61 TO STA. 52+09.18

#THESE TWO PANELS WILL SERVE AS A RAISED PLATFORM TO AVOID UTILITY CONFLICTS

INTERSECTION OF N 7TH AVE - W MENDENHALL ST
NORTHEAST CORNER



LEGEND
FS = FINISHED SURFACE ELEV.
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DETECTABLE WARNING DEVICES

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N 7TH AVE & W MENDENHALL ST CURB RAMP DETAILS

NO SCALE

3 / 1

MONTANA Department of Transportation

C:\DGN\9313000rddet001.dgn	DESIGNED BY	J. BERAN	4/5/2024
3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024
7:43:51 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025

ROAD PLANS

GALLATIN COUNTY

N 7TH AVE INT IMPROV - BOZEMAN

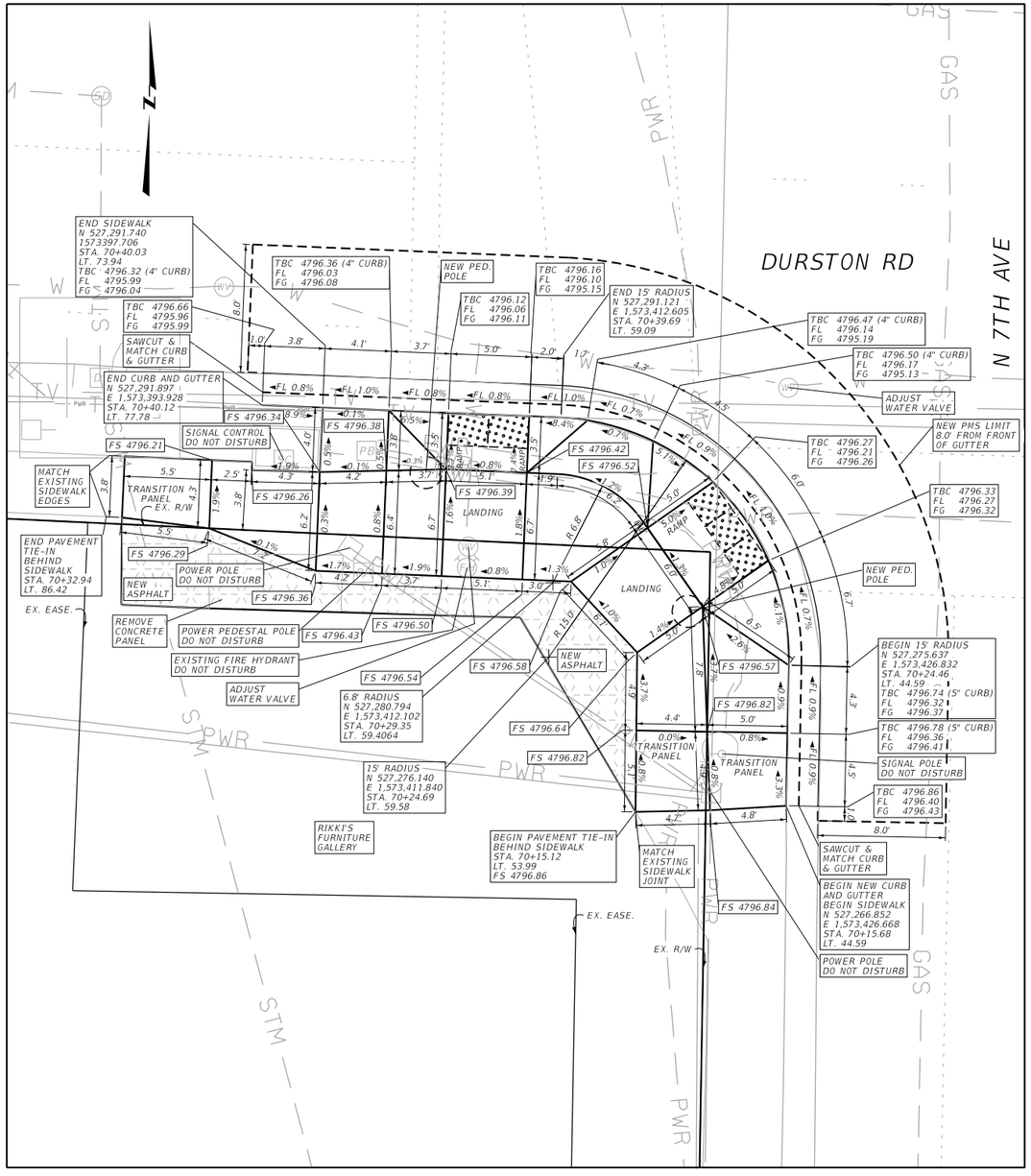
UPN 9313000

CMDP 118-1(5)0

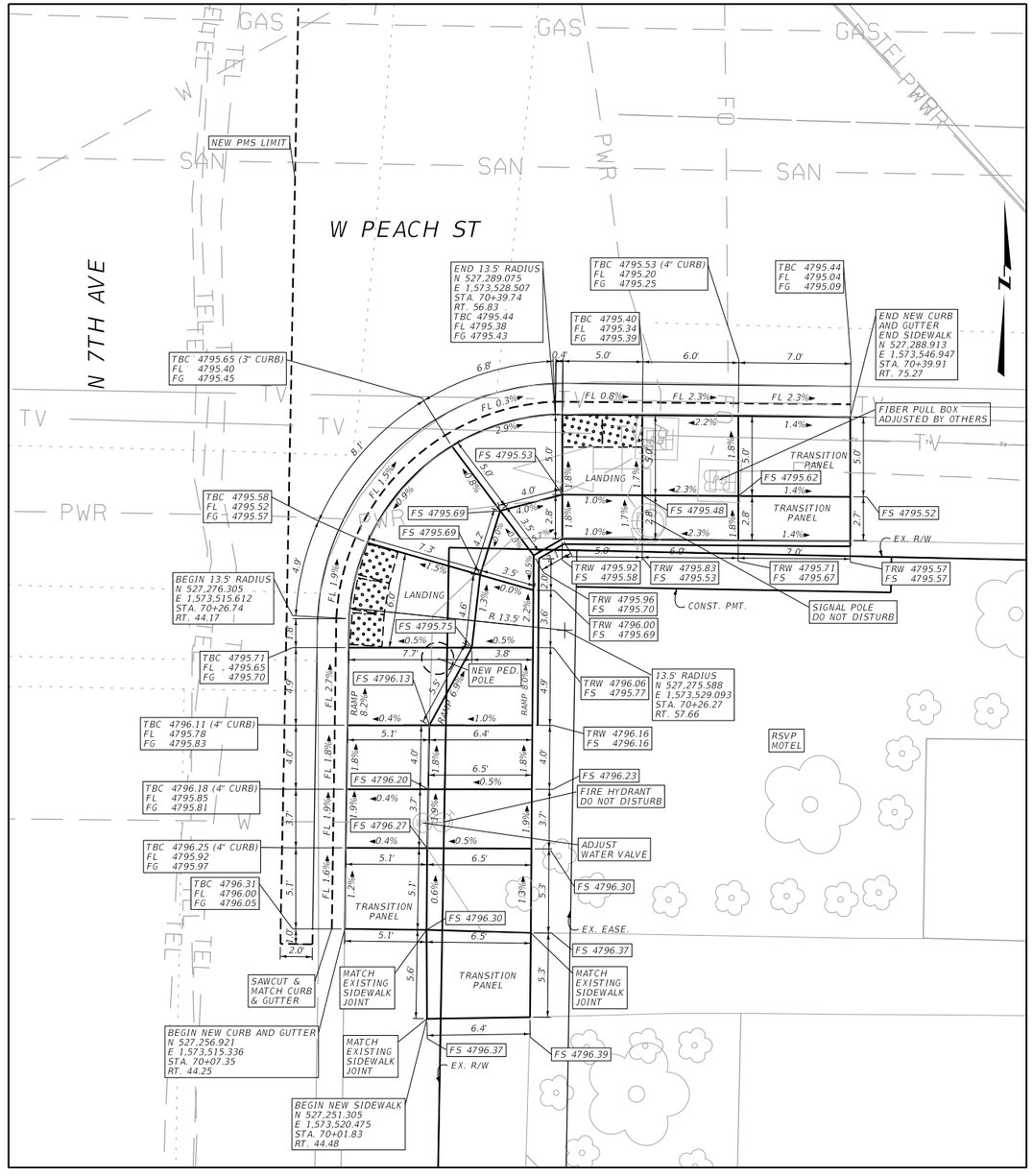
14

AWARD COPY

INTERSECTION OF N 7TH AVE - DURSTON RD
SOUTHWEST CORNER



INTERSECTION OF N 7TH AVE - W PEACH ST
SOUTHEAST CORNER



LEGEND
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DETECTABLE WARNING DEVICES

NEW ASPHALT 0.45' THICK

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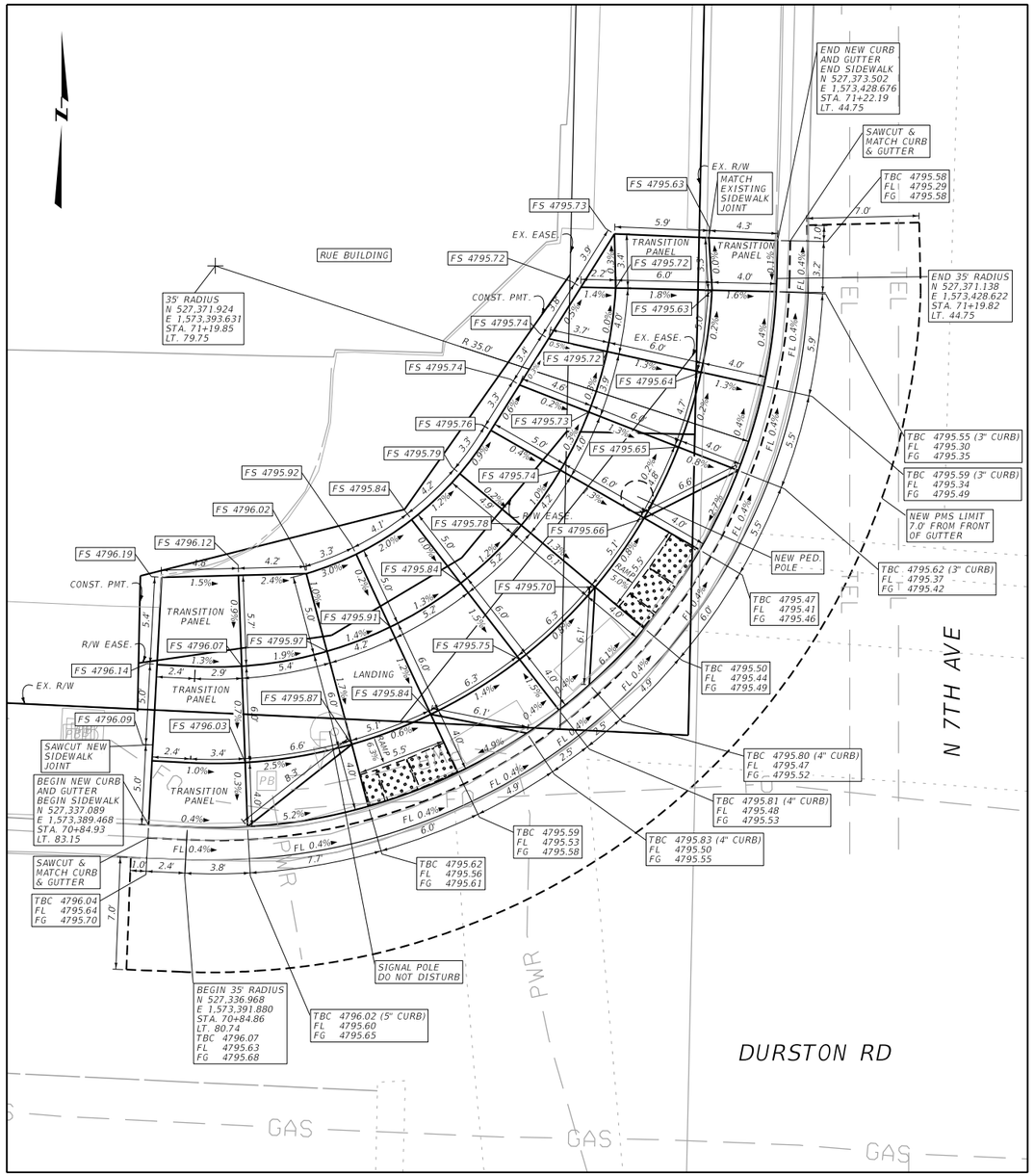
N 7TH AVE & DURSTON/PEACH ST CURB RAMP DETAILS

NO SCALE

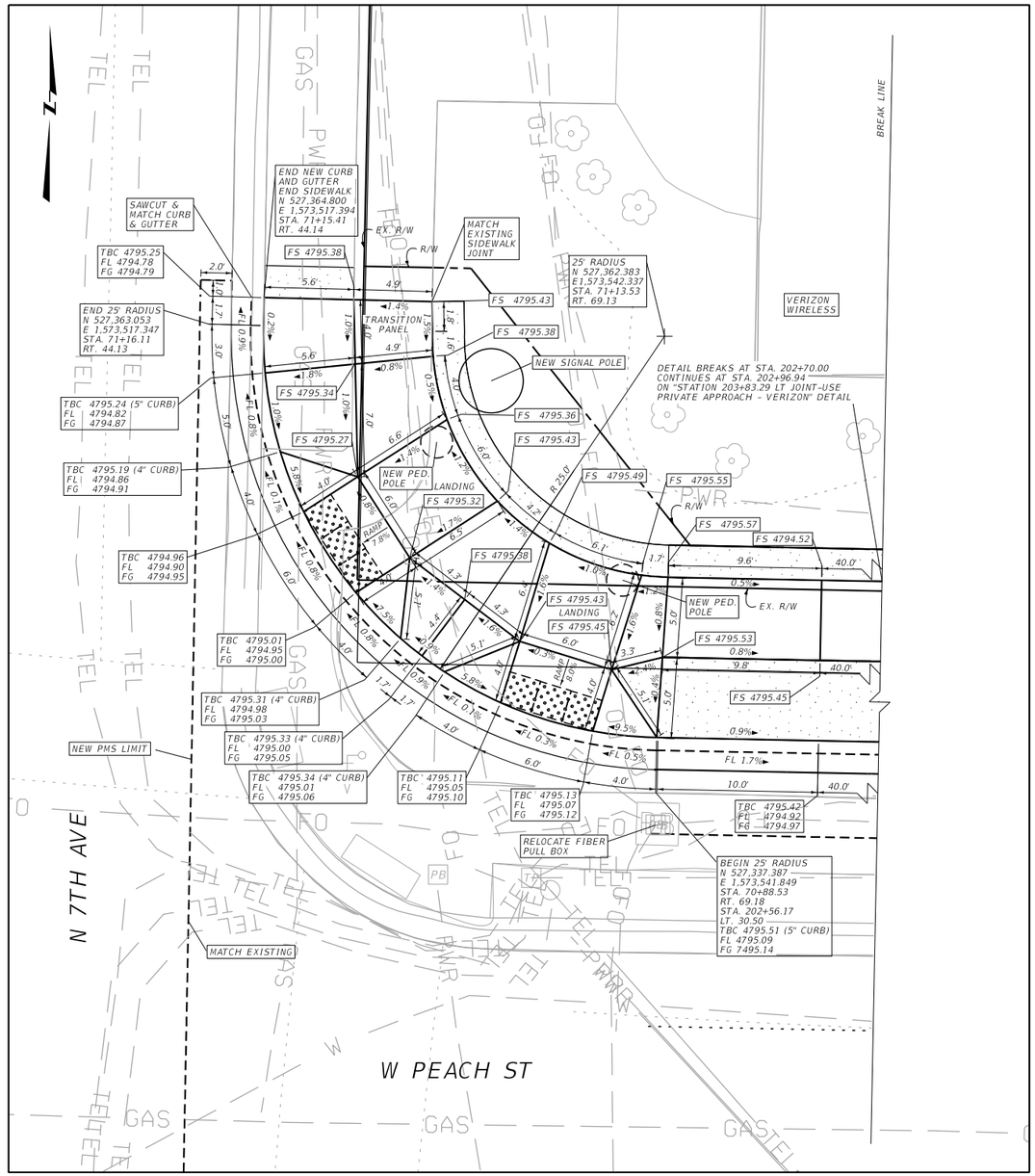
2	MONTANA Department of Transportation	C:\DGN\9313000rddet001.dgn	DESIGNED BY	J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
1		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:43:55 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 15

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INTERSECTION OF N 7TH AVE - DURSTON RD
NORTHWEST CORNER



INTERSECTION OF N 7TH AVE - W PEACH ST
NORTHEAST CORNER



LEGEND

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DETECTABLE WARNING DEVICES

NEW SODDING

NOTES:

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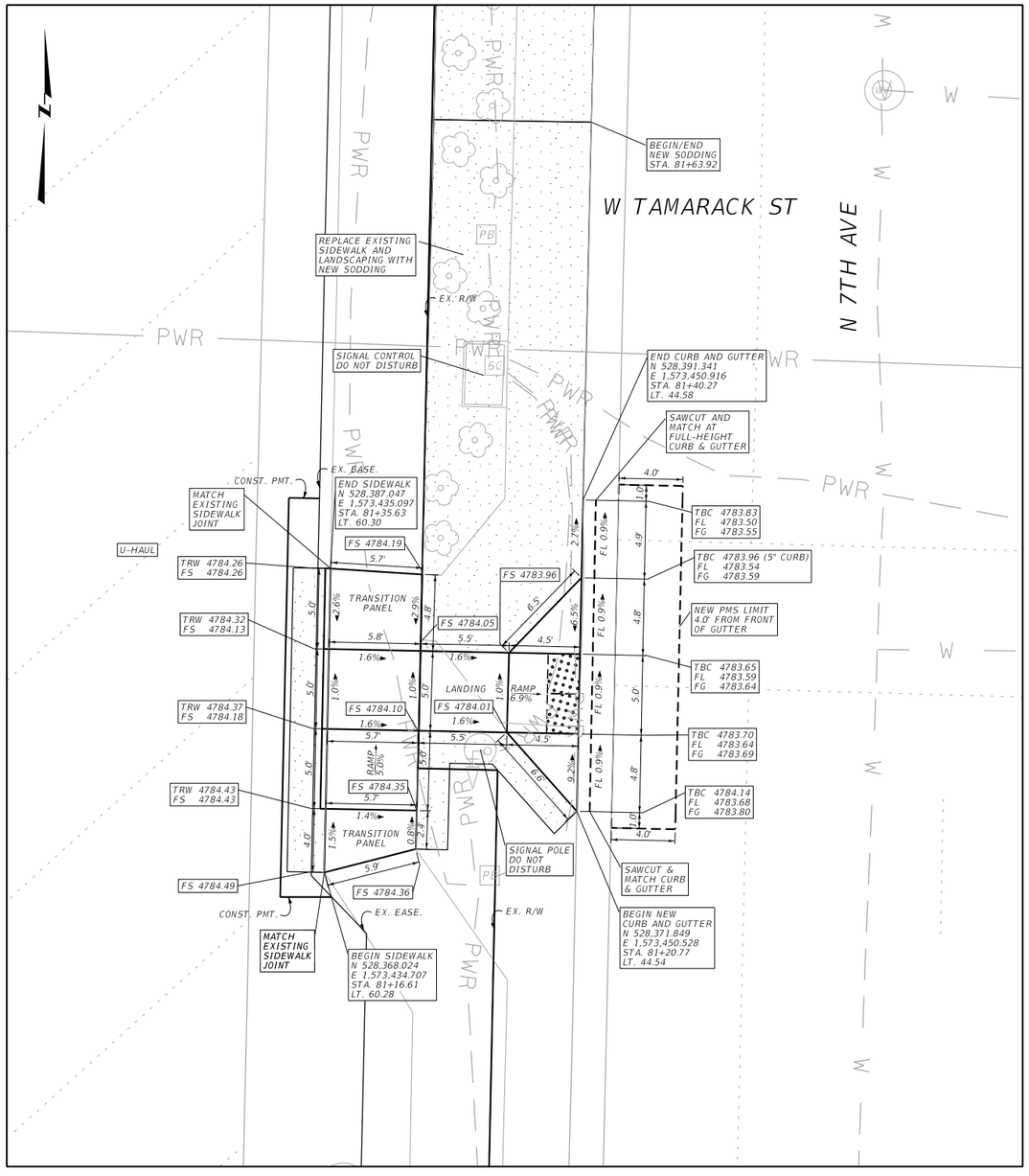
N 7TH AVE & DURSTON/PEACH ST CURB RAMP DETAILS

NO SCALE

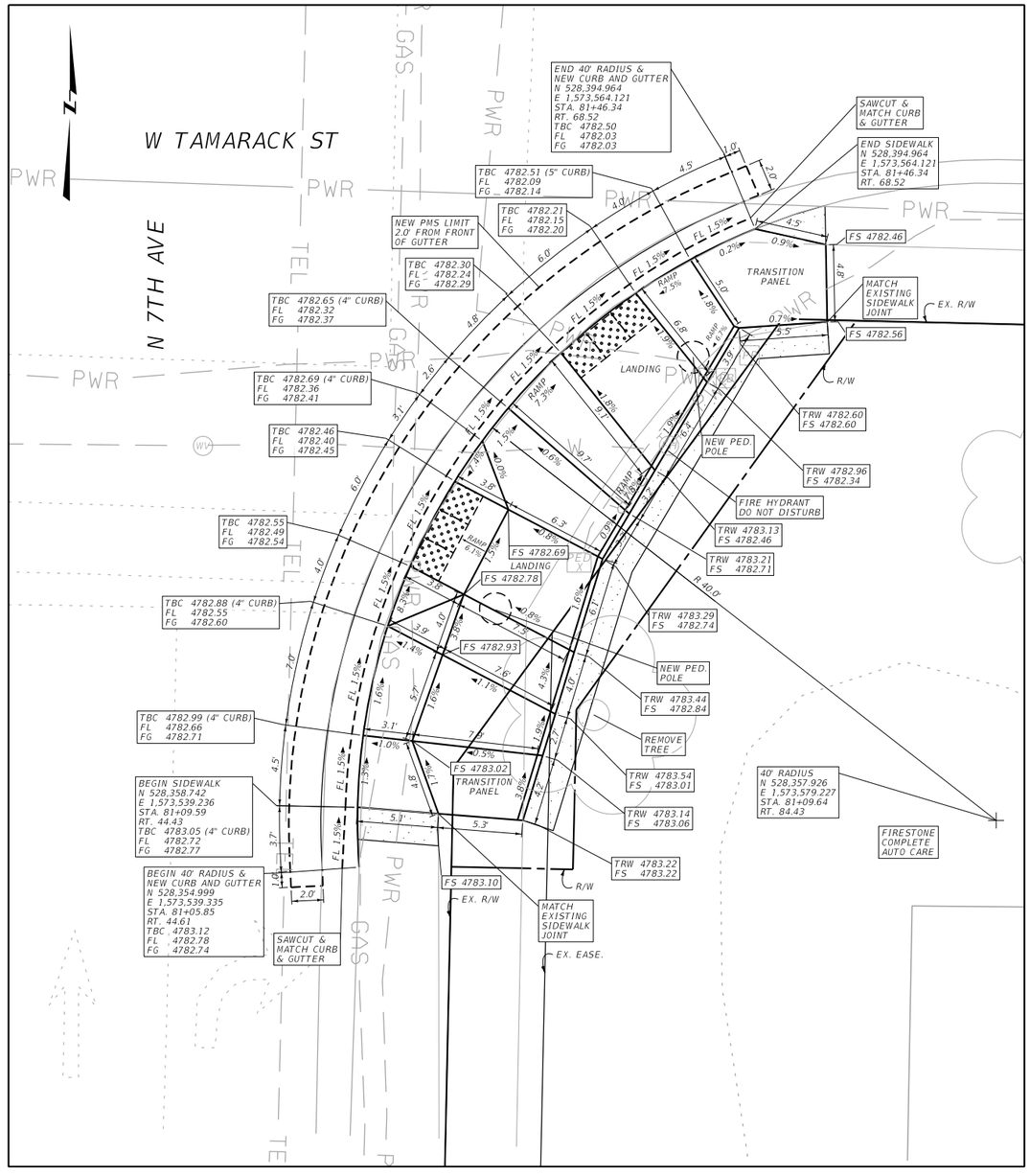
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2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:44:10 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 16

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INTERSECTION OF N 7TH AVE - W TAMARACK ST
SOUTHWEST CORNER



INTERSECTION OF N 7TH AVE - W TAMARACK ST
SOUTHEAST CORNER



LEGEND

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DETECTABLE WARNING DEVICES

NEW SODDING

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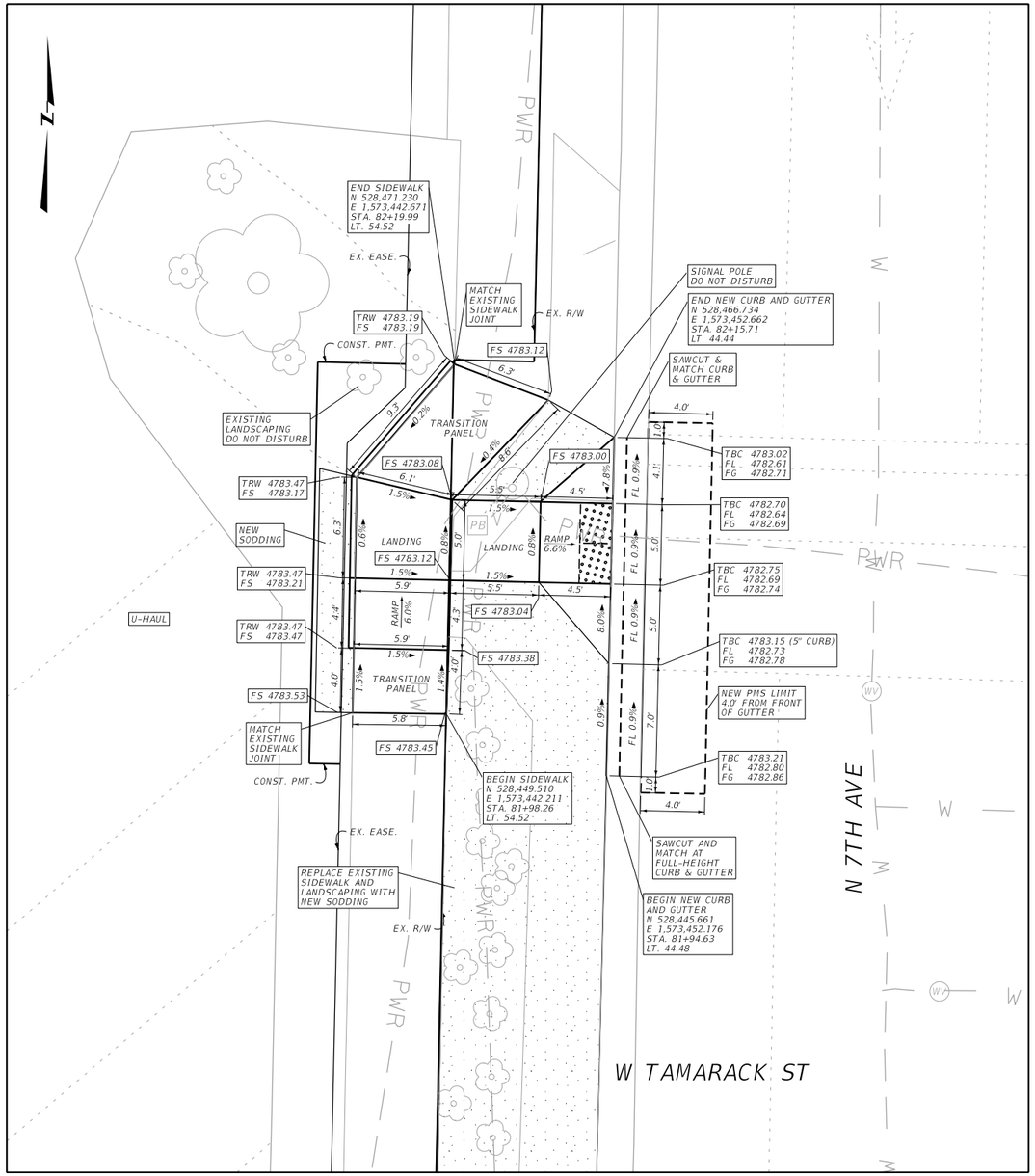
N 7TH AVE & W TAMARACK ST CURB RAMP DETAILS

NO SCALE

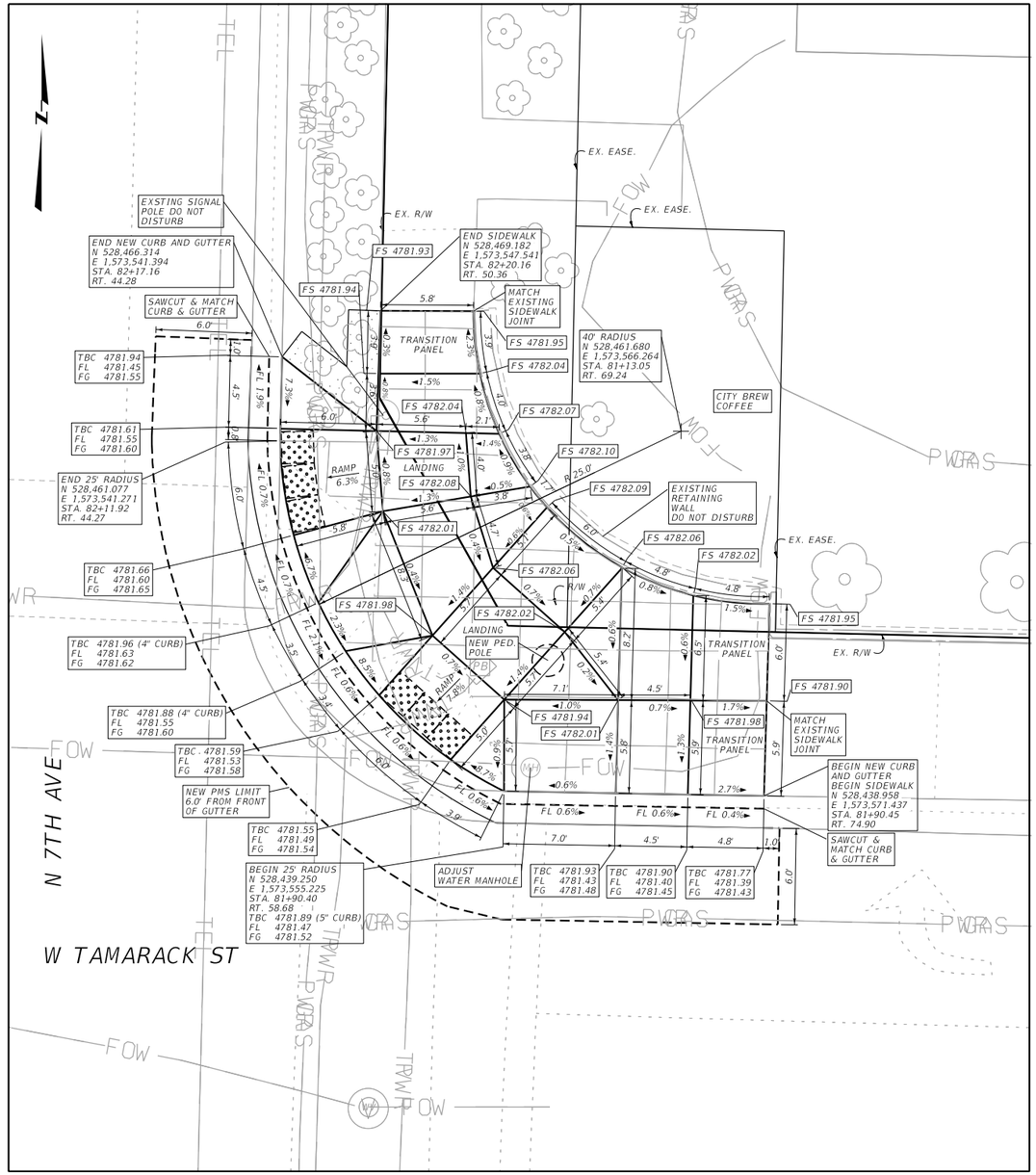
3 / 1	MONTANA Department of Transportation	C:\DGN\9313000rddet002.dgn	DESIGNED BY J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
		3/31/2025	REVIEWED BY R. BARBULA	10/4/2024			
		7:44:15 AM CPS - U5198	CHECKED BY J. CERECK	J. CERECK	GALLATIN COUNTY	UPN 9313000	17

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INTERSECTION OF N 7TH AVE - W TAMARACK ST
NORTHWEST CORNER



INTERSECTION OF N 7TH AVE - W TAMARACK ST
NORTHEAST CORNER



LEGEND

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DETECTABLE WARNING DEVICES

NEW SODDING

NOTES:

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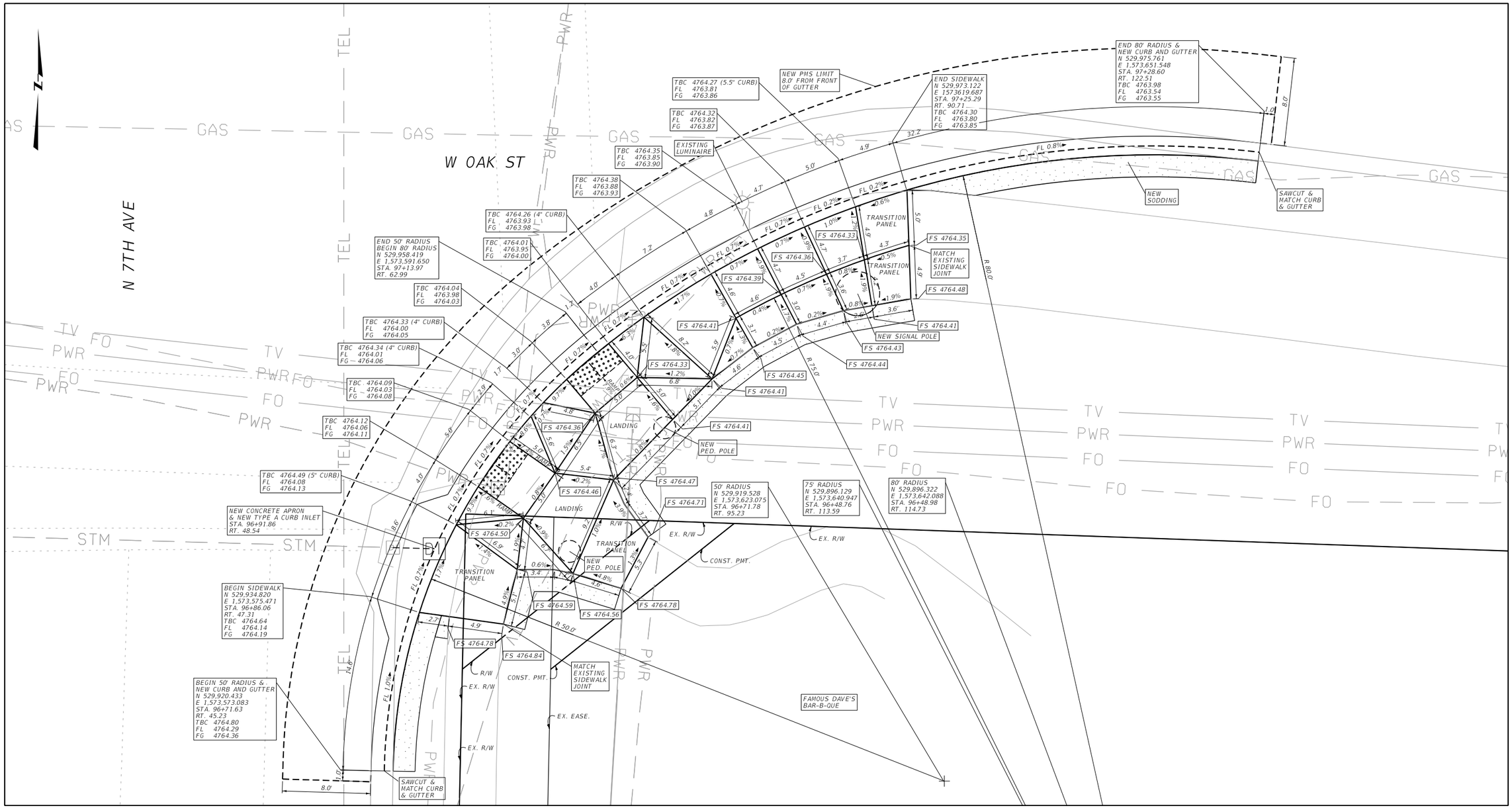
N 7TH AVE & W TAMARACK ST CURB RAMP DETAILS

NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9313000rddet002.dgn	DESIGNED BY	J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
1		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:44:19 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 18

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INTERSECTION OF N 7TH AVE - W OAK ST
SOUTHEAST CORNER



LEGEND
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DETECTABLE WARNING DEVICES

NEW SODDING

NOTES:

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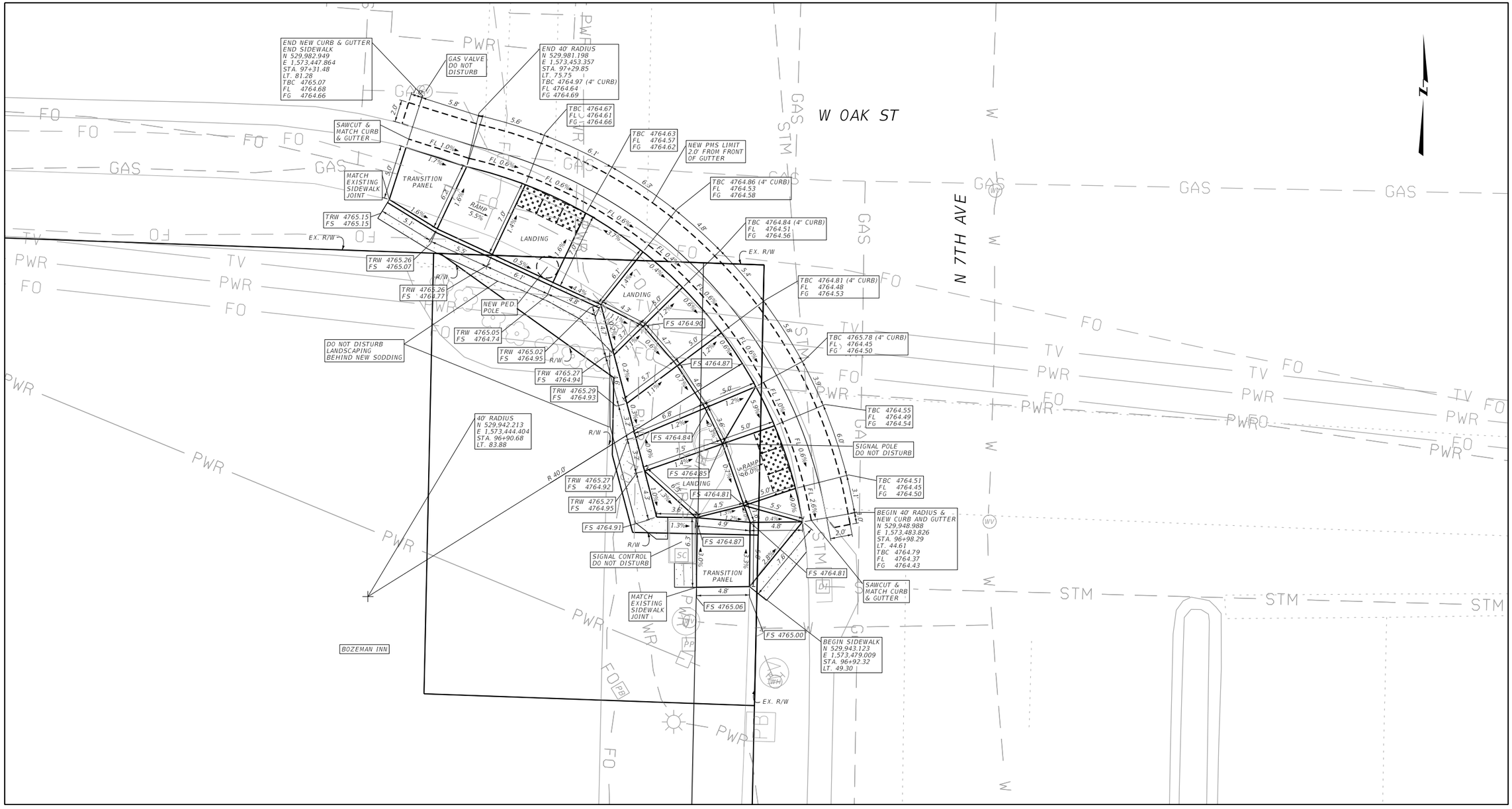
N 7TH AVE & W OAK ST CURB RAMP DETAILS

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet003.dgn	DESIGNED BY	J. BERAN	7/14/2023	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:44:34 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 19

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INTERSECTION OF N 7TH AVE - W OAK ST
SOUTHWEST CORNER



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DETECTABLE WARNING DEVICES

NEW SODDING

NOTES:

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SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

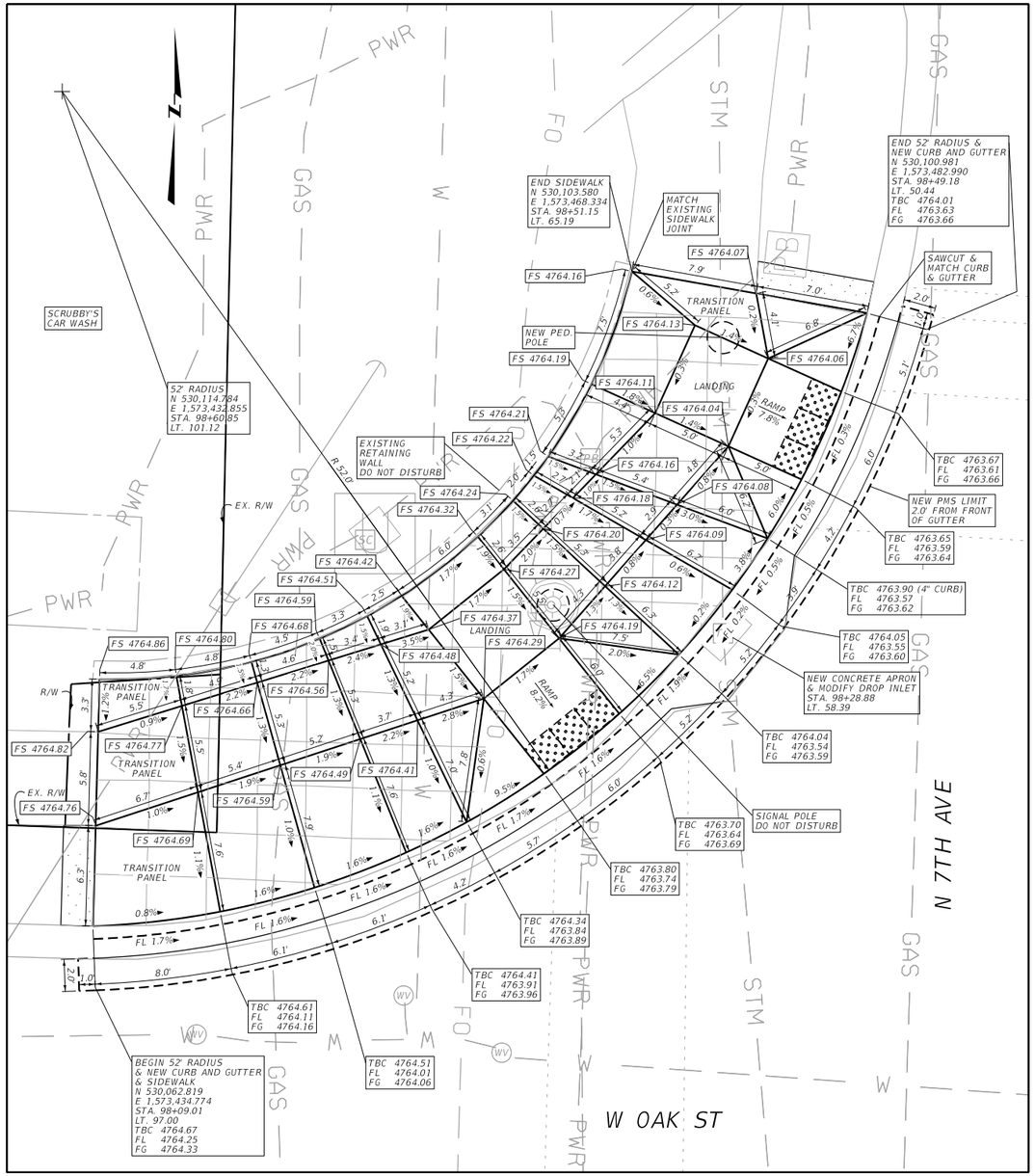
N 7TH AVE & W OAK ST CURB RAMP DETAILS

NO SCALE

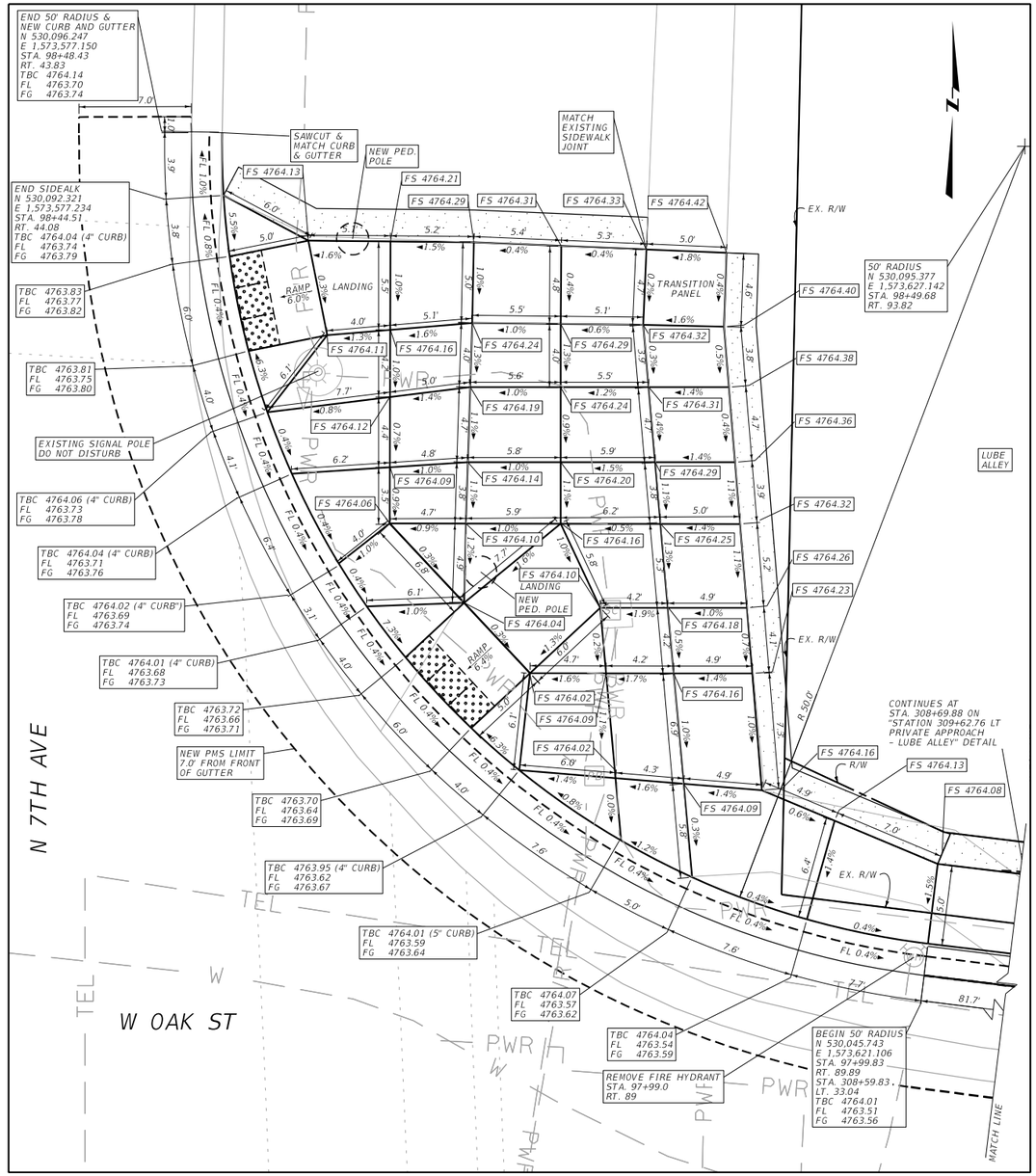
2	MONTANA Department of Transportation	C:\DGN\9313000rddet003.dgn	DESIGNED BY	J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
1		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024	GALLATIN COUNTY	UPN 9313000 / 20
		7:44:38 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025		

AWARD COPY

INTERSECTION OF N 7TH AVE - W OAK ST
NORTHWEST CORNER



INTERSECTION OF N 7TH AVE - W OAK ST
NORTHEAST CORNER



LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

DETECTABLE WARNING DEVICES

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

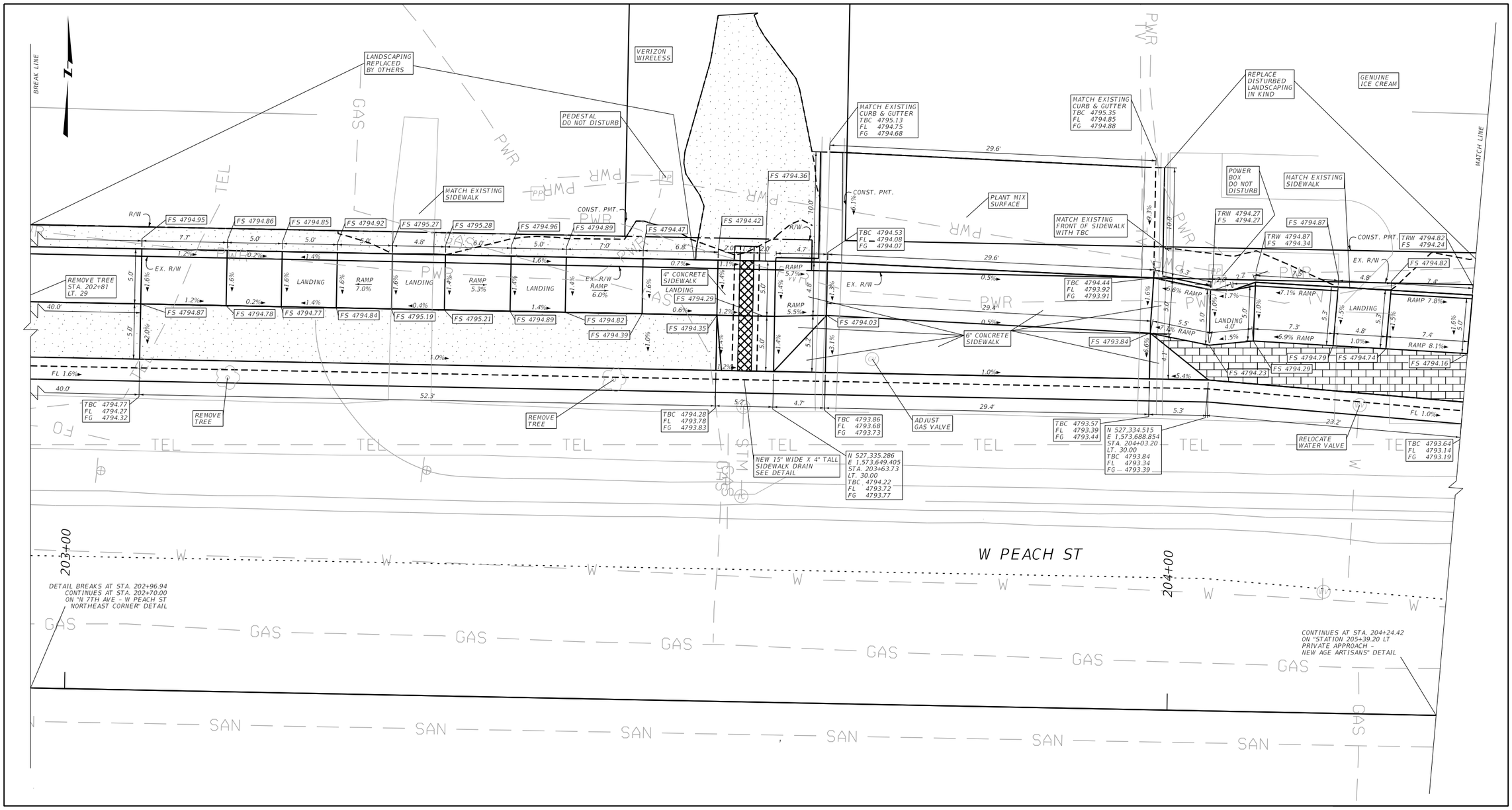
N 7TH AVE & W OAK ST CURB RAMP DETAILS

NO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9313000rddet003.dgn	DESIGNED BY	J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / UPN 9313000	CMDP 118-1(5)0 / 21
		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024			
		7:44:43 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY		

AWARD COPY

STATION 203+83.29 LT
JOINT-USE PRIVATE APPROACH - VERIZON



LEGEND
FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

4" COLORED CONCRETE SIDEWALK

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

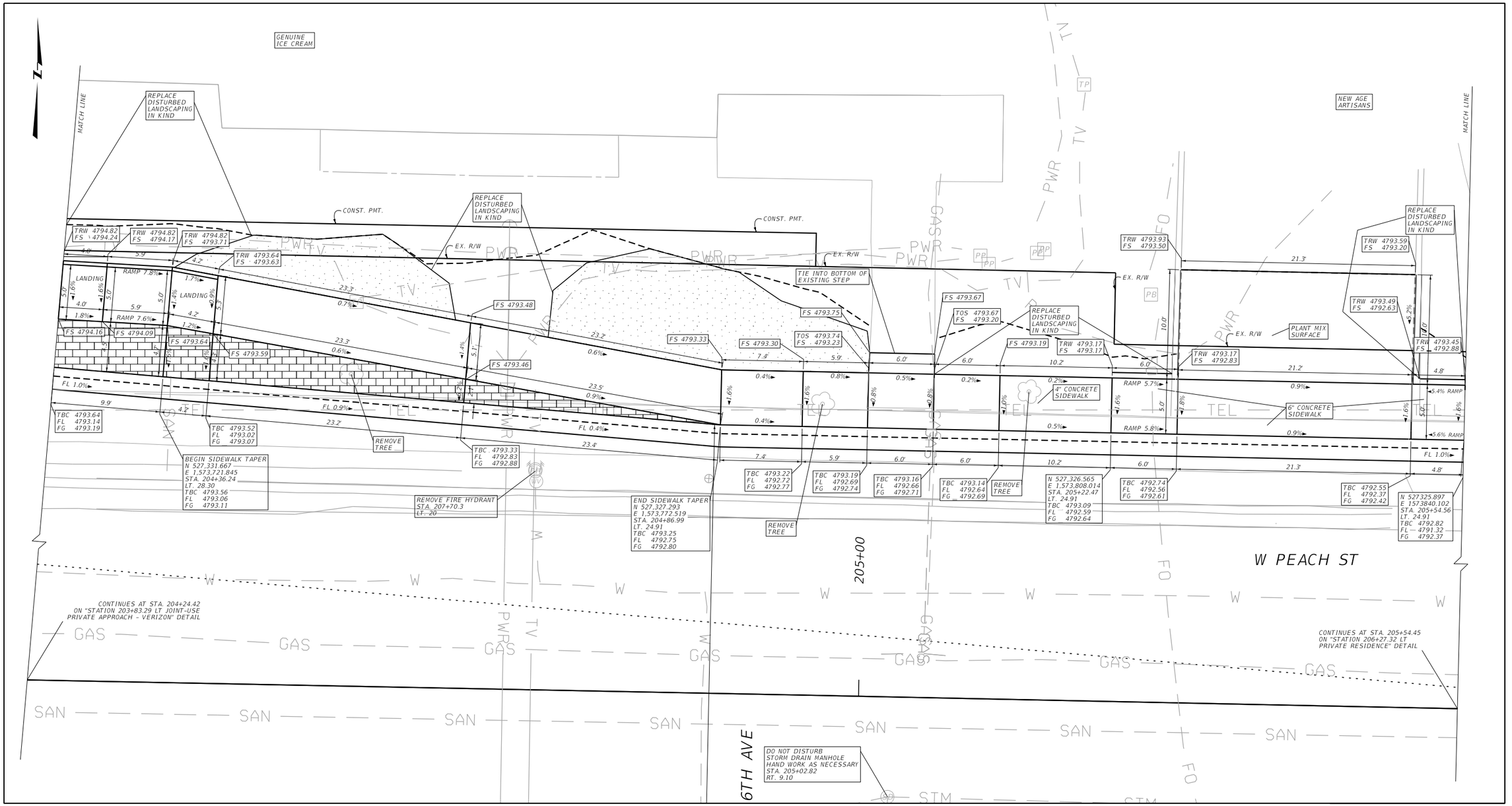
W PEACH ST APPROACH & SIDEWALK DETAILS

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet004.dgn	DESIGNED BY J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY R. BARBULA	10/4/2024			
		7:45:00 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	22

AWARD COPY

STATION 205+39.20 LT
PRIVATE APPROACH - NEW AGE ARTISANS



LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.
TOS = TOP OF STEP ELEV.

4" COLORED CONCRETE SIDEWALK

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

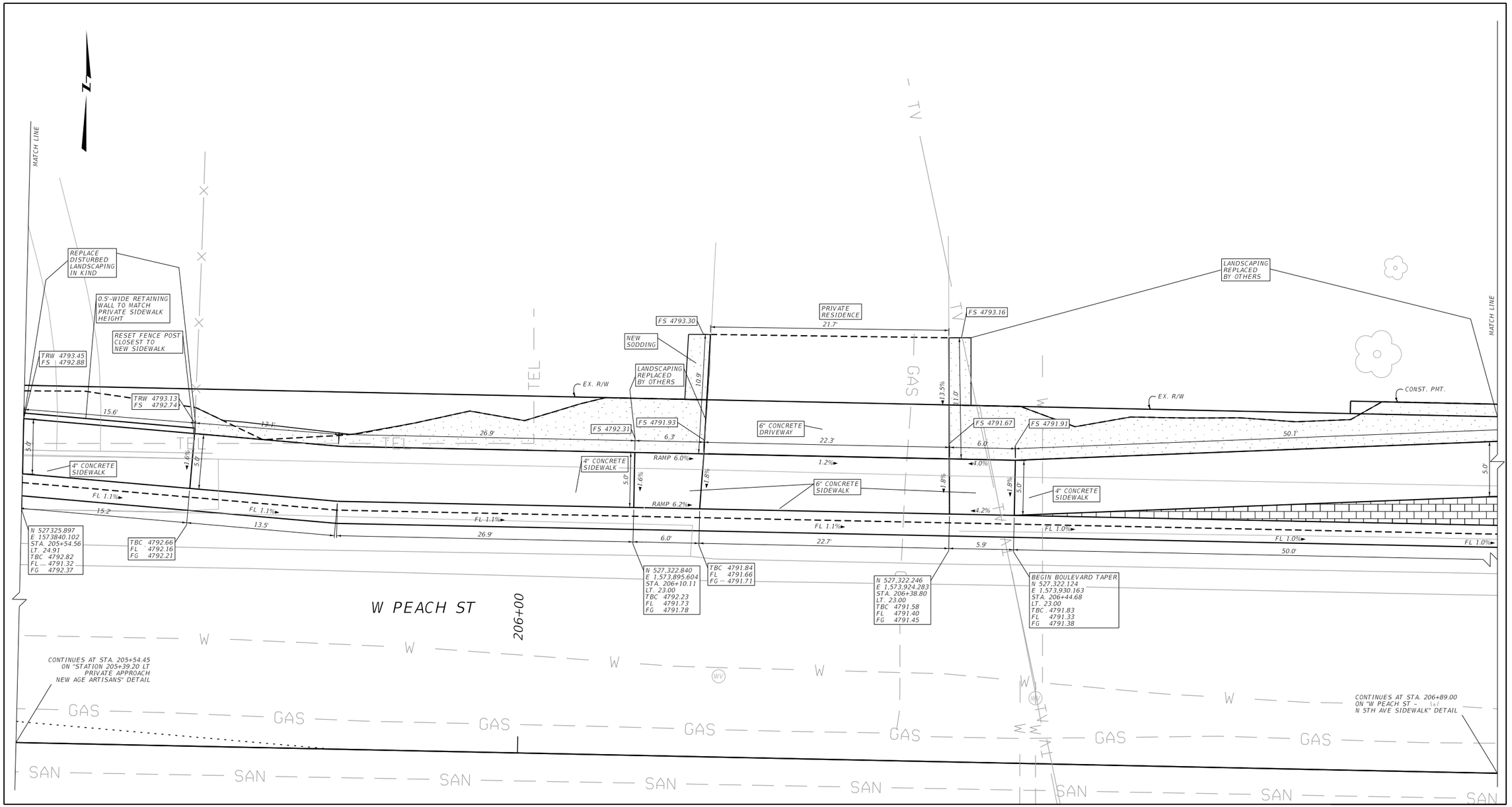
W PEACH ST APPROACH & SIDEWALK DETAILS

NO SCALE

3 1	MONTANA Department of Transportation	C:\DGN\9313000rddet004.dgn	DESIGNED BY J. BERAN	4/5/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
		3/31/2025	REVIEWED BY R. BARBULA	10/4/2024			
		7:45:05 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	23

AWARD COPY

STATION 206+27.32 LT
PRIVATE RESIDENCE



LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

4" COLORED CONCRETE SIDEWALK

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

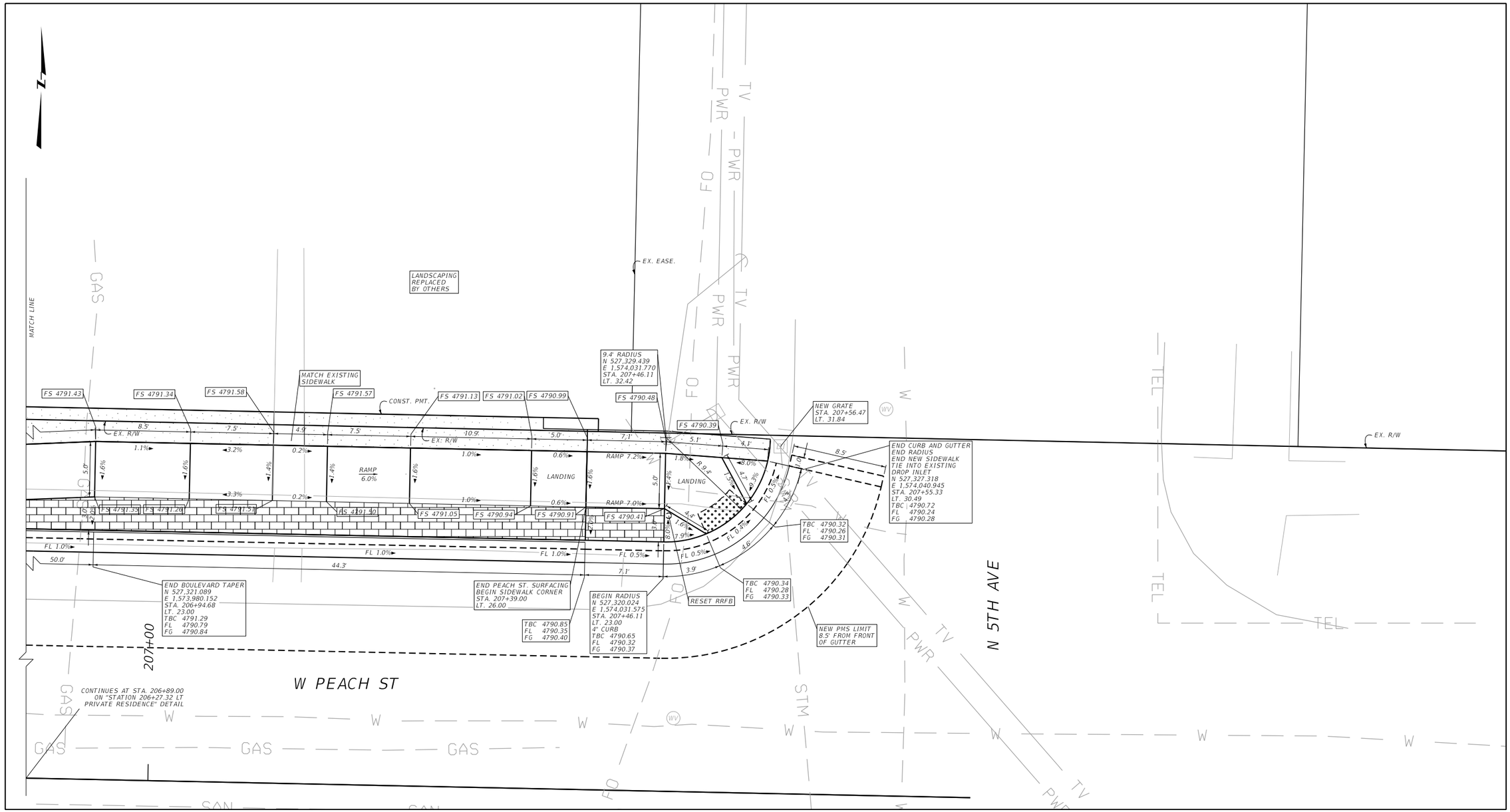
COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

W PEACH ST APPROACH & SIDEWALK DETAILS

NO SCALE

AWARD COPY

INTERSECTION OF W PEACH ST - N 5TH AVE
NORTHWEST CORNER SIDEWALK



LEGEND
FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

4" COLORED CONCRETE SIDEWALK

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

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SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

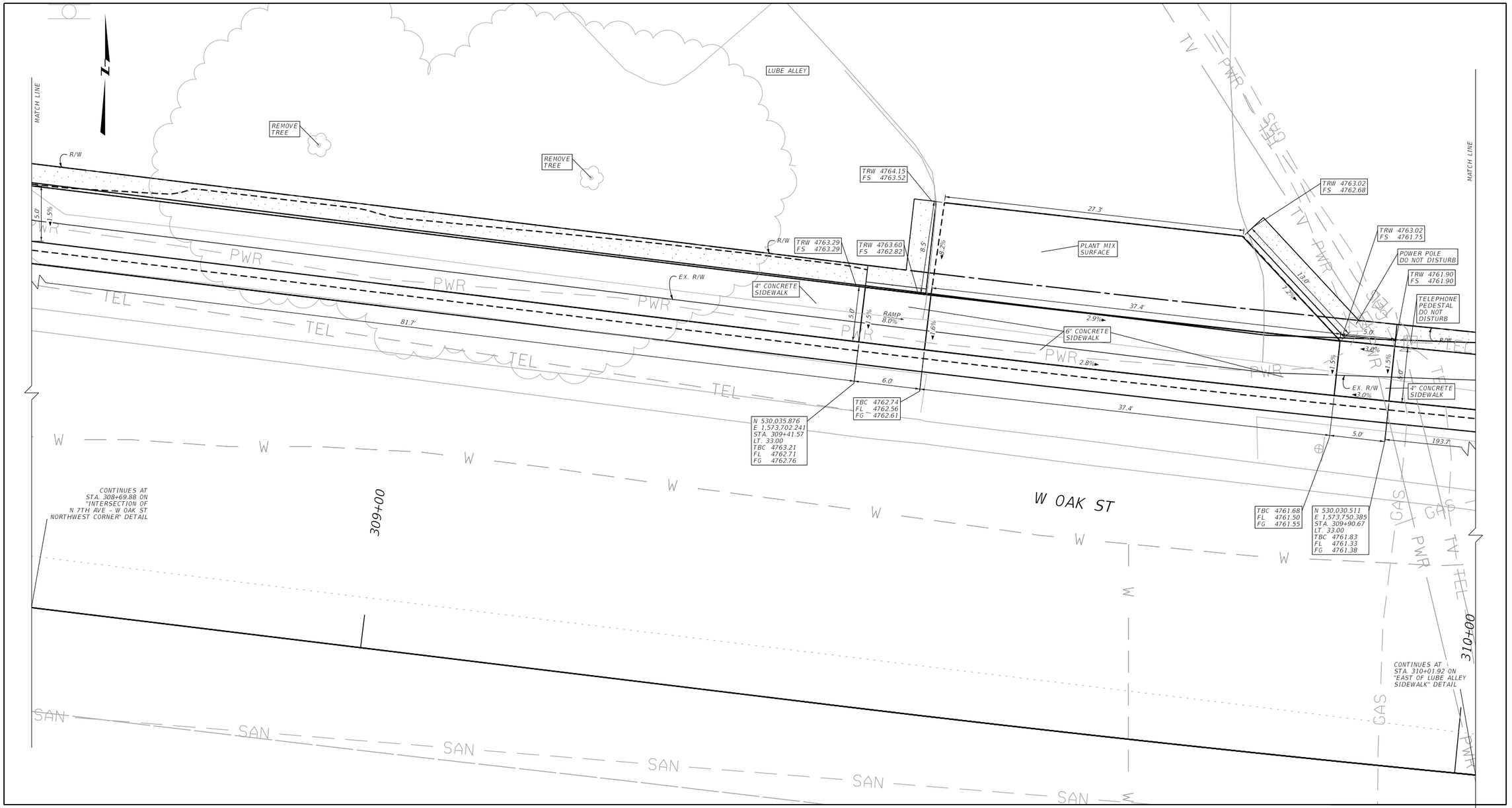
W PEACH ST APPROACH & CURB RAMP DETAILS

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet005.dgn	DESIGNED BY	J. BERAN	9/24/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024	GALLATIN COUNTY	UPN 9313000 / 25
		7:45:24 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025		

AWARD COPY

STATION 309+62.76 LT
PRIVATE APPROACH - LUBE ALLEY



LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

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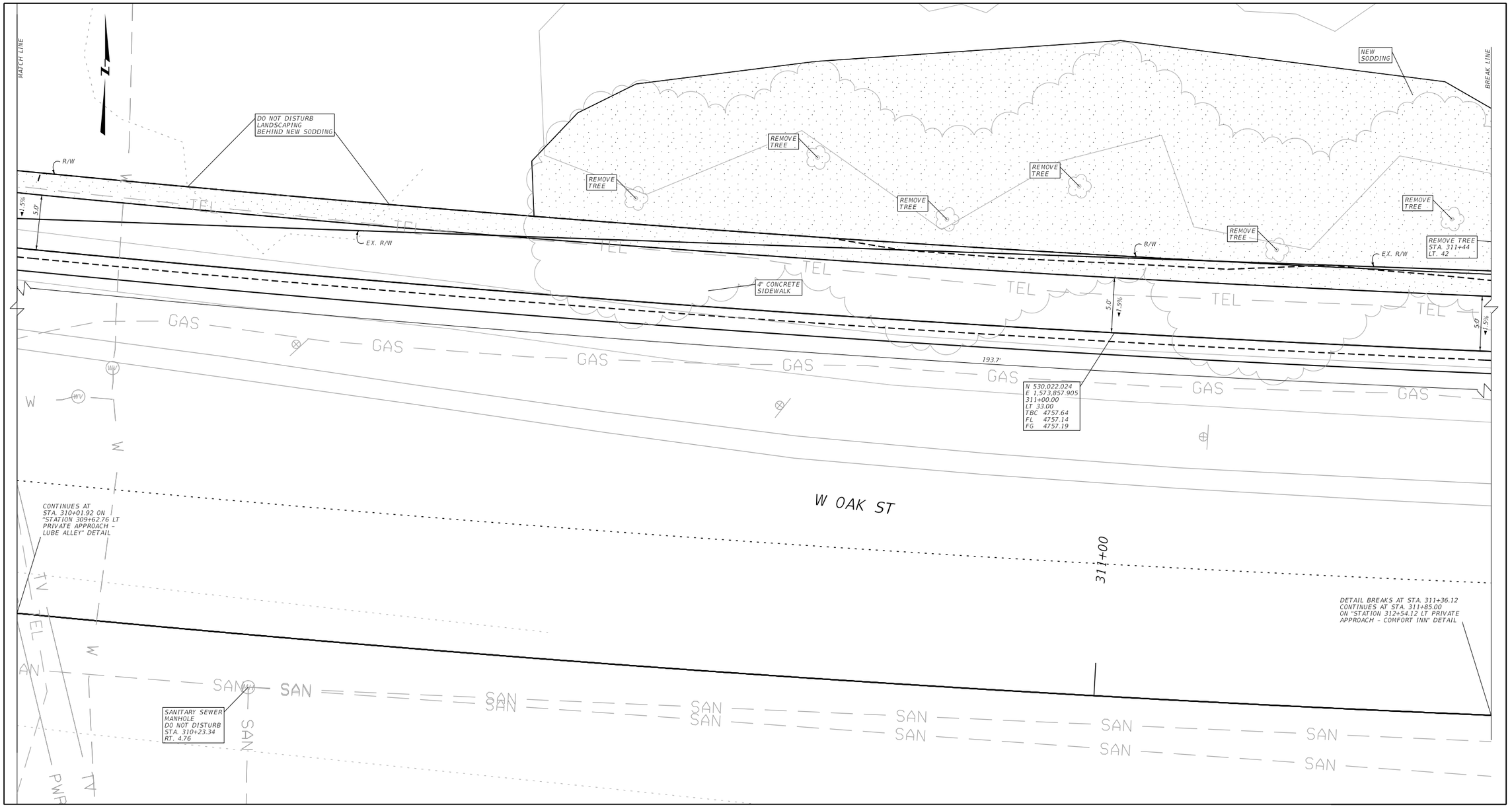
W OAK ST APPROACH & SIDEWALK DETAILS

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet006.dgn	DESIGNED BY	J. BERAN	9/24/2024	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:45:39 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	UPN 9313000	26
						ROAD PLANS	
						GALLATIN COUNTY	

AWARD COPY

EAST OF LUBE ALLEY
SIDEWALK



LEGEND
FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

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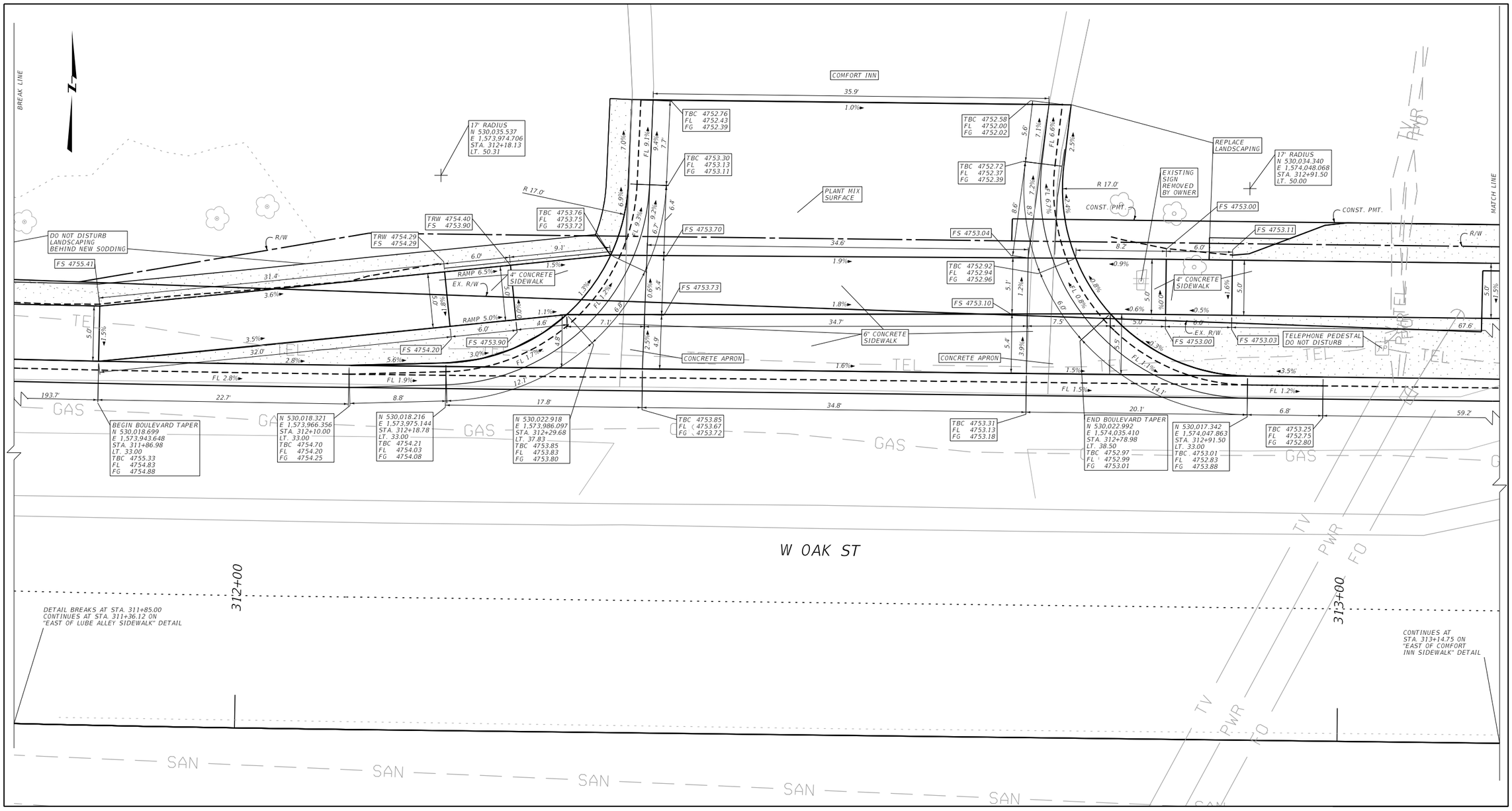
COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

W OAK ST APPROACH & SIDEWALK DETAILS

NO SCALE

AWARD COPY

STATION 312+54.12 LT
PRIVATE APPROACH - COMFORT INN



LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

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SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

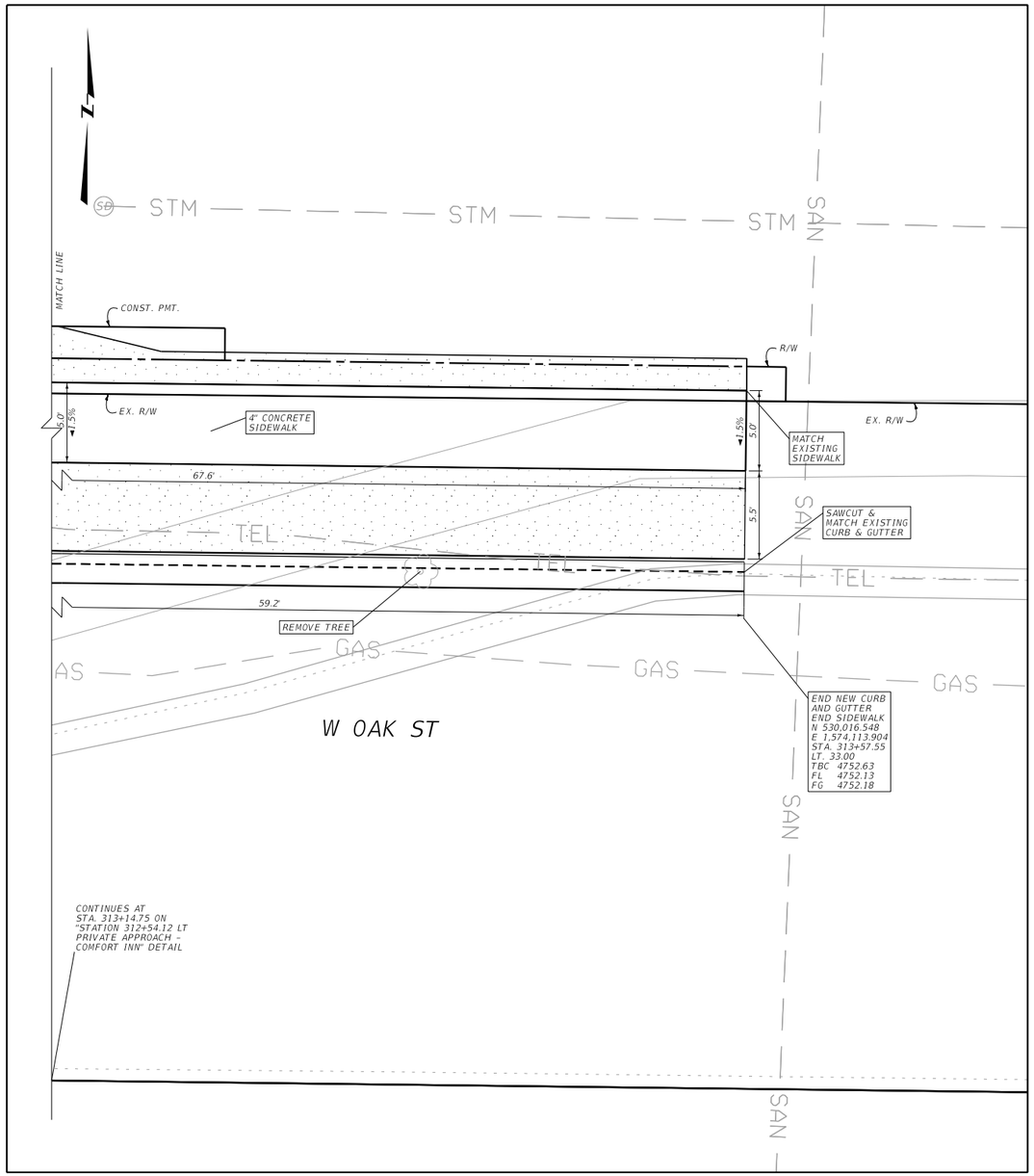
COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

W OAK ST APPROACH & SIDEWALK DETAILS

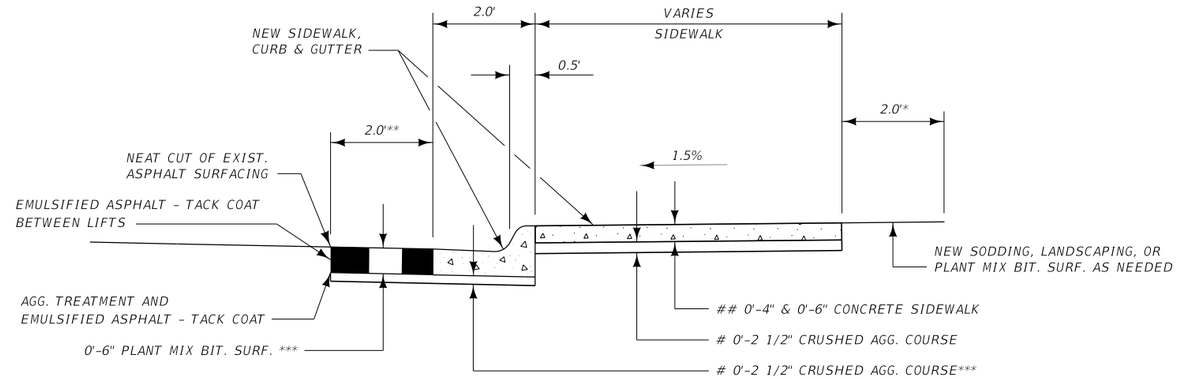
NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9313000rddet006.dgn	DESIGNED BY	J. BERAN	9/24/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
1		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024			
		7:45:50 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	28

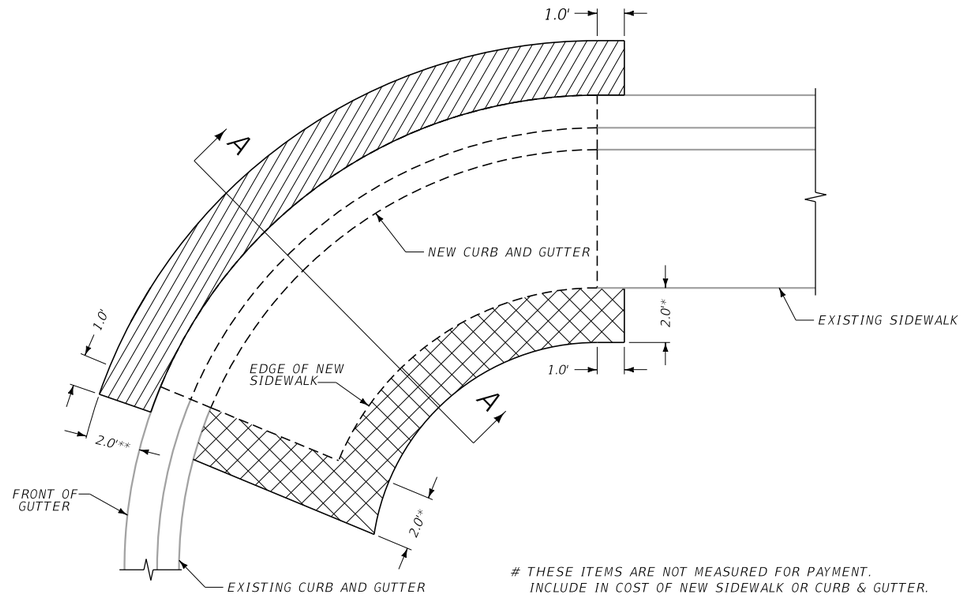
EAST OF COMFORT INN SIDEWALK



NEW ADA CORNER CURB & GUTTER, SIDEWALK, AND SURFACING REPAIR DETAIL



SECTION A-A



MAXIMUM CONSTRUCTION LIMITS FOR REMOVAL OF EXISTING CURB AND GUTTER AND PLACEMENT OF FORMS FOR NEW CURB AND GUTTER.

MAXIMUM CONSTRUCTION LIMITS FOR PLACEMENT OF FORMS FOR NEW SIDEWALK

\# THESE ITEMS ARE NOT MEASURED FOR PAYMENT. INCLUDE IN COST OF NEW SIDEWALK OR CURB & GUTTER.

DEPTH VARIES. SEE DETAILS & SUMMARY FRAMES.

* ONLY REMOVE TO A WIDTH OF 2.0' MAX. WHEN ADJACENT TO GRASS, REPLACE WITH SOD. WHEN ADJACENT TO LANDSCAPING, REPLACE WITH EQUIVALENT AS INSTRUCTED BY PROJECT MANAGER.

** SOME CURB RAMPS REQUIRE UP TO 8.0' OF STREET EXCAVATION. SEE DETAIL SHEETS FOR LOCATIONS.

*** SEE TYPICAL SECTIONS FOR DEVIATIONS.

LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

NEW SODDING

NOTES:

PROVIDE DETECTABLE WARINING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICE DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

COST OF RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK

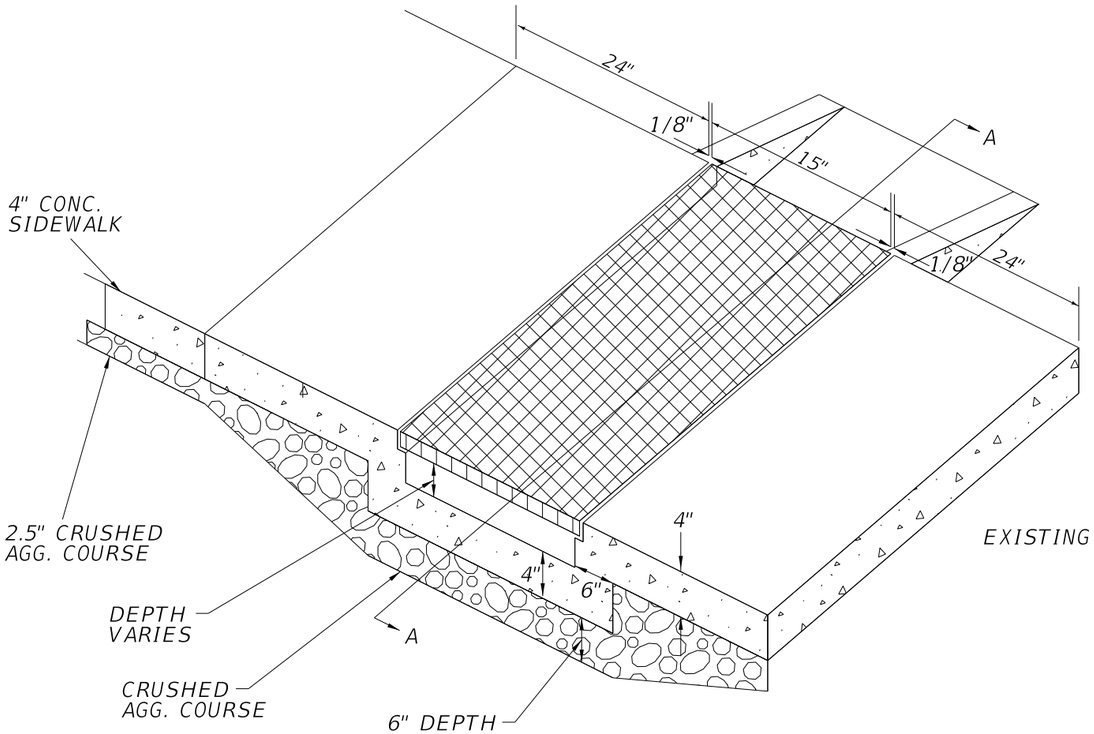
W OAK ST EAST END, STREET EXCAVATION & SIDEWALK DETAILS

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet007.dgn	DESIGNED BY	J. BERAN	9/24/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024			
		7:46:06 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	29

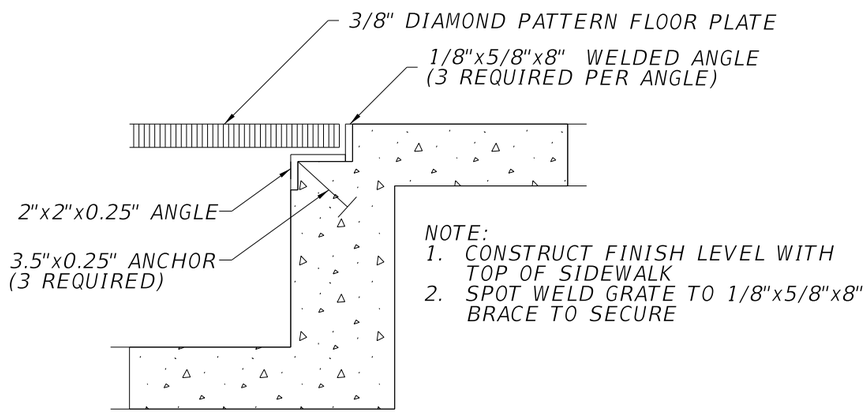
AWARD COPY

DETAIL

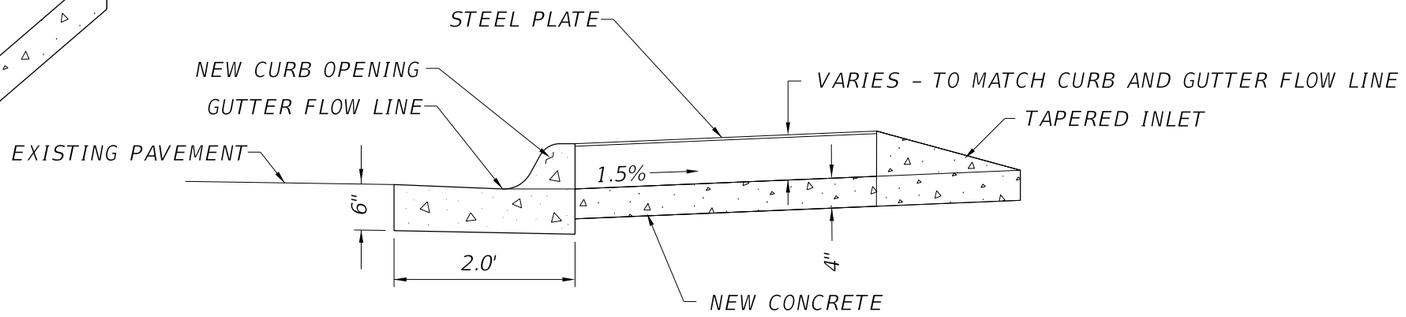


SIDEWALK DRAIN DETAIL

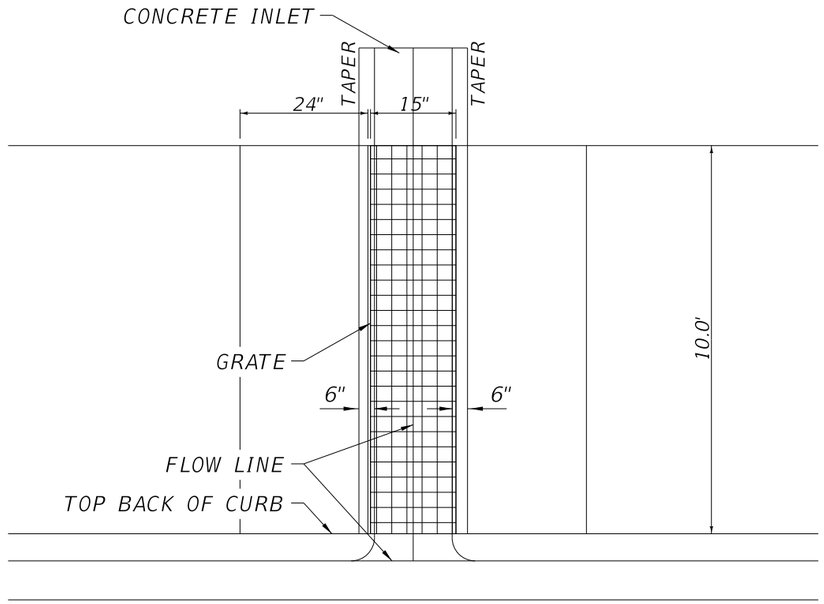
NOTE:
1. PROVIDE A SIDEWALK DRAIN AND COVER THAT IS ADA COMPLIANT AS APPROVED BY THE PROJECT MANAGER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. INCLUDE COST OF CONCRETE, AGGREGATE, FRAME, COVER AND OTHER ITEMS INCIDENTAL TO CONSTRUCTION IN THE UNIT BID PRICE PER EACH SIDEWALK DRAIN.



NOTE:
1. CONSTRUCT FINISH LEVEL WITH TOP OF SIDEWALK
2. SPOT WELD GRATE TO 1/8"x5/8"x8" BRACE TO SECURE



SECTION A-A



PLAN VIEW

SIDEWALK DRAIN DETAIL

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet008.dgn	DESIGNED BY	G. STUART	12/19/2023	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:46:21 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 30

AWARD COPY

DETAIL

VERIZON WIRELESS

CONST. PMT.

B

3.1% FL

EXISTING PEDESTAL
DO NOT DISTURB

A

A

CONST. PMT.

CONST. PMT.

A

R/W

EX. R/W

EX. R/W

1.4% FL

NEW SIDEWALK DRAIN
203+61.07

EXISTING SIDEWALK DRAIN
203+61.07

CONST. PMT.

EX. R/W

PWR GAS TEL SAN SEW TV W IC GV PP PB

*W

6:1 6:1

SECTION A-A

*WIDTH "W" TAPERS
FROM 15" AT POINT A
TO 24" AT POINT B

SWALE DITCH

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	ELEVATION (FT)	REMARKS
203+61.15	A	527,346.644	1,573,647.030	4793.76	TIE INTO NEW SIDEWALK DRAIN
203+59.35	B	527,367.647	1,573,645.637	4794.55	TIE INTO EXISTING DITCH

GPK NAME: JOBR13.GPK CHAIN NAME: SWALE PROFILE NAME: SWALE_VA

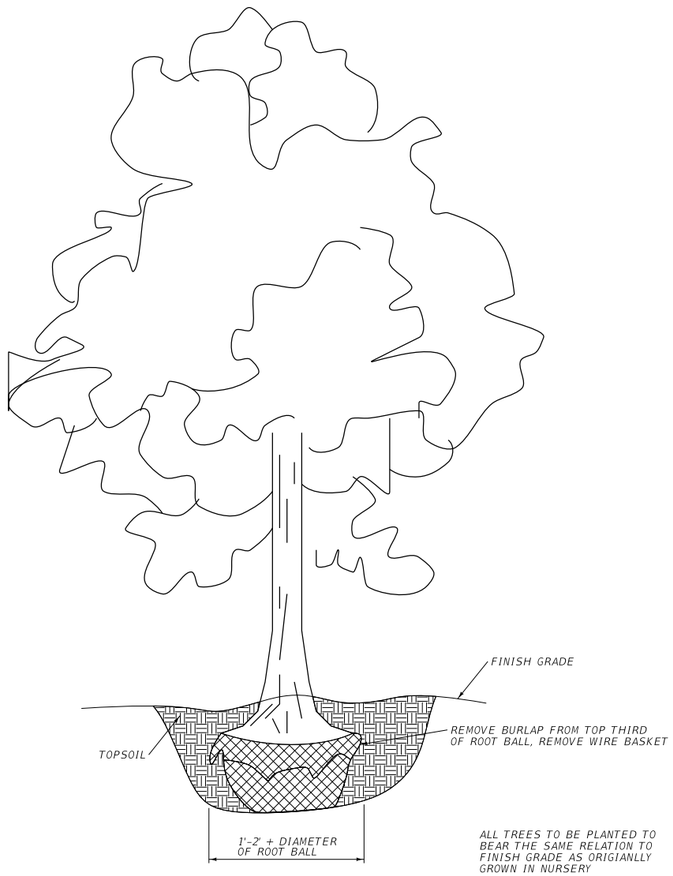
W PEACH ST

SWALE DITCH DETAIL

NO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9313000rddet008.dgn	DESIGNED BY J. BERAN	12/19/2023	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
		3/31/2025	REVIEWED BY R. BARBULA	10/4/2024			
		7:46:26 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	31

DETAIL



INSTALL TREES			
STATION	OFFSET	TYPE	CALIBER
202+78	45' LT.	CRABAPPLE OR MAPLE	2"
203+08	46' LT.	CRABAPPLE OR MAPLE	2"
203+48	46' LT.	CRABAPPLE OR MAPLE	2"
204+53	41' LT.	CHOKECHERRY	2"
204+89	35' LT.	JAPANESE LILAC	2"
205+14	43' LT.	AMUR MAACKIA	2"
308+84	53' LT.	CRABAPPLE	2"
309+09	52' LT.	CRABAPPLE	2"
310+55	54' LT.	COLORADO BLUE SPRUCE	7-8'
310+72	59' LT.	COLORADO BLUE SPRUCE	7-8'
310+84	54' LT.	COLORADO BLUE SPRUCE	7-8'
310+96	58' LT.	COLORADO BLUE SPRUCE	7-8'
311+15	53' LT.	COLORADO BLUE SPRUCE	7-8'
311+31	57' LT.	COLORADO BLUE SPRUCE	7-8'
311+44	54' LT.	COLORADO BLUE SPRUCE	7-8'
313+55	50' LT.	BUR OAK	2"

LANDSCAPING #		
STATION		LANDSCAPING NOTES
FROM	TO	
51+56.12		LT., REMOVE ROCK & RESET ON PRIVATE PROPERTY
52+05.61	52+09.18	LT., RESET PAVERS; SALVAGE REMOVED PAVERS TO OWNER
51+97.00	52+24.98	* RT., LANDSCAPING REPLACED BY OTHERS
81+30.60	82+06.58	LT., REMOVE LANDSCAPING; REPLACE WITH SOD
97+06.51	97+19.52	LT., DO NOT DISTURB EXISTING LANDSCAPING
202+37.29	203+82.24	* LT., LANDSCAPING REPLACED BY OTHERS
203+82.24	205+73.17	LT., REPLACE ANY DISTURBED LANDSCAPING IN KIND
205+73.17	206+39.01	* LT., LANDSCAPING REPLACED BY OTHERS
206+39.01	207+55.51	* LT., LANDSCAPING REPLACED BY OTHERS
309+88.43	313+12.76	* LANDSCAPING REPLACED BY OTHERS UNLESS OTHERWISE NOTED, SEE DETAILS

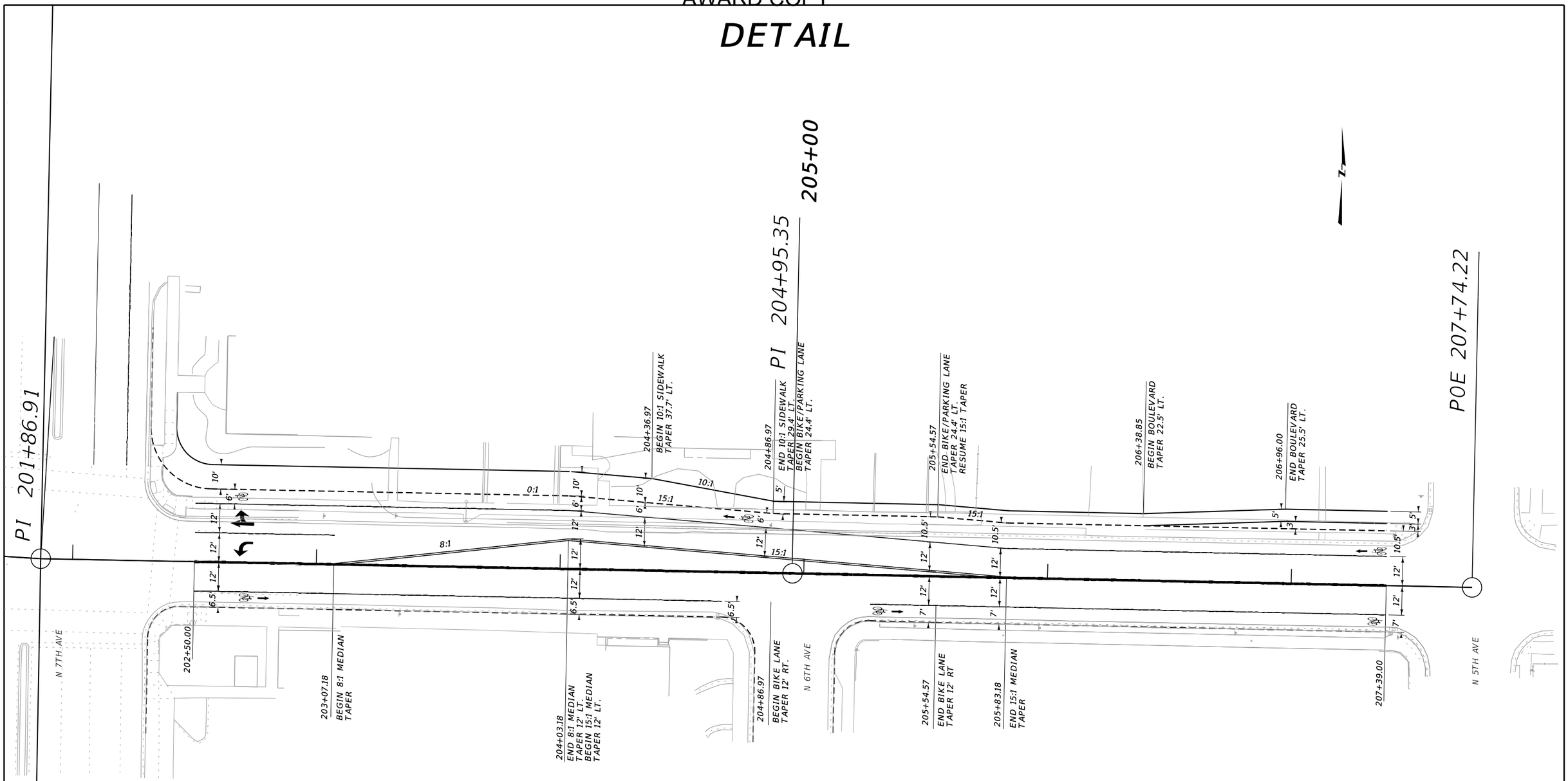
* PERFORMED BY OTHERS
\# SEE SPECIAL PROVISION

TREE PLANTING & LANDSCAPING DETAIL

NO SCALE

AWARD COPY

DETAIL



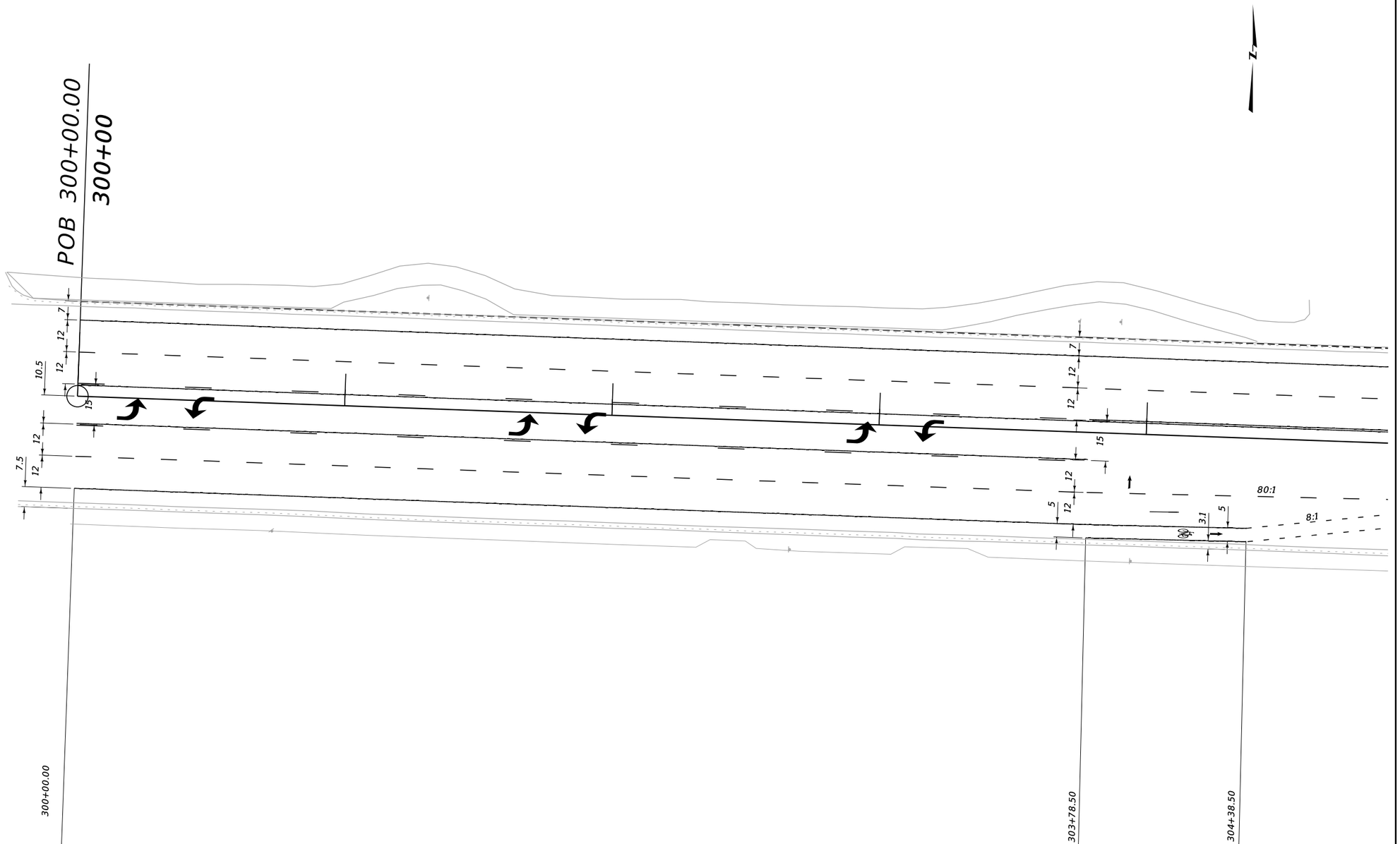
W PEACH ST GEOMETRIC DETAIL

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet009.dgn	DESIGNED BY J. BERAN	3/18/2024	ROAD PLANS		N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY					UPN 9313000
		7:46:43 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY			33

AWARD COPY

DETAIL



W OAK ST
GEOMETRIC
DETAIL

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9313000rddet010.dgn	DESIGNED BY	D. BIRLUT	2/25/2020	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY					
		7:46:54 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	34

AWARD COPY

DETAIL

305+00

PI 307+72.26

PC 309+39.18

310+00

N 7TH AVE

305+38.50

306+98.50

308+40.00

310+55.00

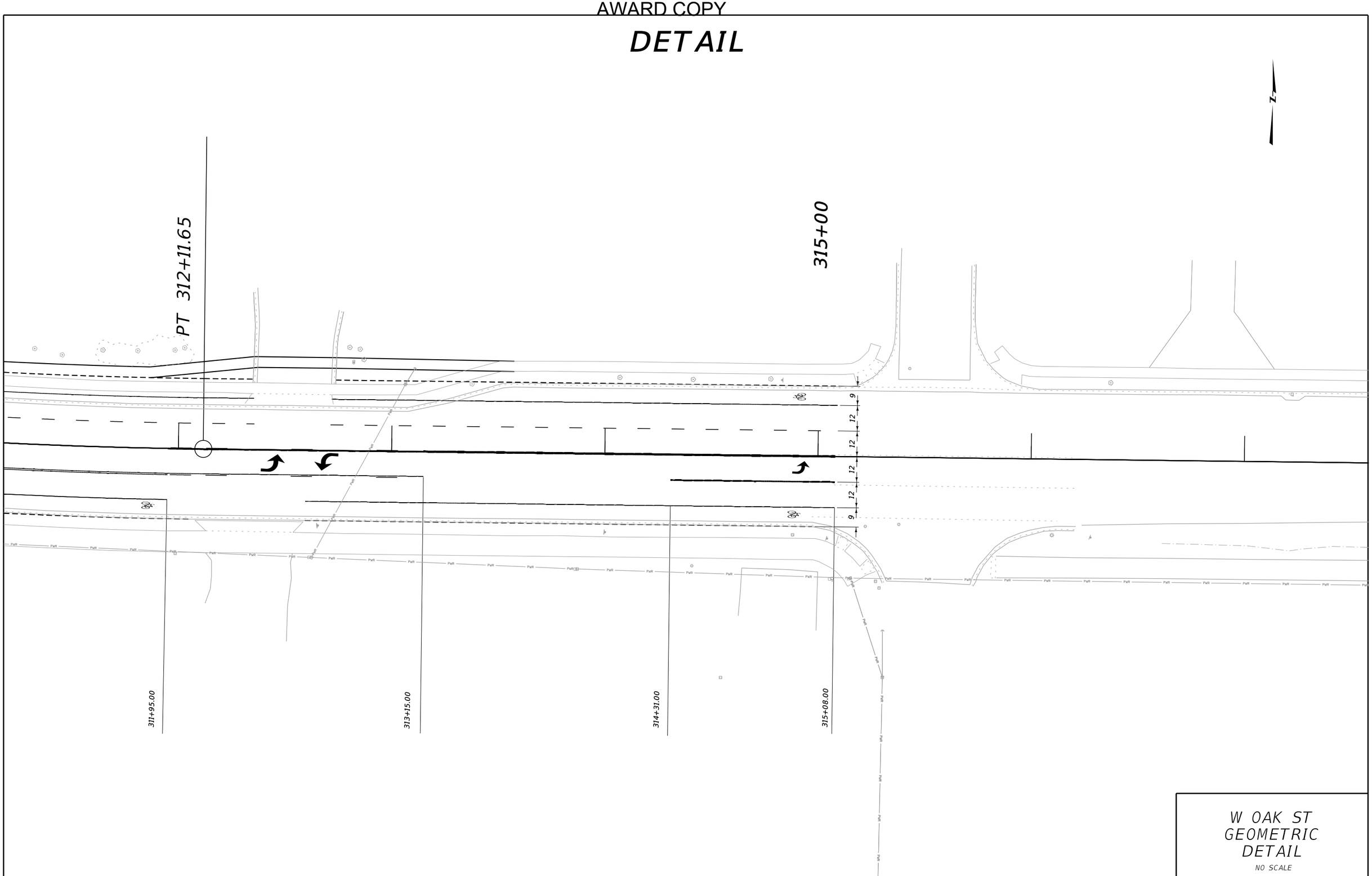
W OAK ST GEOMETRIC DETAIL

NO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9313000rddet010.dgn	DESIGNED BY D. BIRLUT	2/25/2020	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
		3/31/2025	REVIEWED BY				
		7:46:57 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	35

AWARD COPY

DETAIL



W OAK ST GEOMETRIC DETAIL

NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9313000rddet010.dgn	DESIGNED BY	D. BIRLUT	2/25/2020	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
1		3/31/2025	REVIEWED BY					
		7:47:00 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	36

AWARD COPY

UTILITY CROSSINGS
51+79.63 – C.O.B. 6" CI WATER LINE X-ING CL. DEPTH UNKNOWN
52+07.15 – C.O.B. UG POWER LINE X-ING CL. DEPTH UNKNOWN

50+00

55+00

EX. R/W

51H+31 R/W
33.09'-EX. R/W=R/W

51+46.16 R/W
47'-R/W=EX. R/W

51+43
BEG. 71' C.P.
51+46.04
END 71' C.P.

PI 51+75.29
Δ = 0° 33' 38" (LT)

52+06.57 R/W
46'

EX. R/W = R/W
52+15.61 R/W
33.06'
R/W = EX. R/W

NEXTCAR

SILVERLEAF CANNABIS CO.

EX. EASE.

EX. R/W

N 7TH AVE

N 1° 35' 59" E

N 1° 02' 21" E

T. 2 S. R. 5 E.
SEC. 12

EX. R/W

EX. R/W

EX. R/W

EX. EASE.

PRIVATE RESIDENCE

W MENDENHALL ST

R/W 51+25
32.9'
EX. R/W = R/W
R/W 51+25
36'
R/W 51+40
36'
R/W 51+45
39'
R/W 51+47
65'
R/W 51+48.25
65'
R/W = EX. R/W
R/W 51+47
47'
R/W 51+98.19
57'
EX. R/W = R/W
51+98.2
BEG 62' CONST. PMT.
52+00
END CONST. PMT.-62'
52+14.55
BEG 43' CONST. PMT.
52+27
END CONST. PMT.-43'
R/W 52+26.28
32.96'
R/W = EX. R/W

ECKROTH MUSIC

50+00.00
BEG. CMDP 118-1(5)0

DO NOT DISTURB
51+27.45 (37.21' RT.) – 51+45.33 (62.81' RT.) – RETAINING WALL
51+49.21 (43.91' LT.) – SIGNAL POLE
51+98.15 (58.09' RT.) – WATER VALVE
51+99.54 (58.36' RT.) – FIRE HYDRANT
52+04.59 (41.93' RT.) – SIGNAL POLE
52+03.14 (47.48' LT.) – SIGNAL CONTROL BOX
52+14.81 (33.56' RT.) – SIGNAL POLE
52+05.74 (58.04' LT.) – 52+05.78 (44.89' LT.) – RETAINING WALL

UTILITY CROSSINGS
70+38.31 – OH NWE POWER LINE X-ING CL. ELEV. 4,819'
70+40.71 – OH CHARTER CABLE TV LINE X-ING CL. ELEV. 4,830'

UTILITY CROSSINGS
70+13.65 – C.O.B. WATER LINE X-ING CL. DEPTH UNKNOWN
70+32.99 – UG POWER X-ING CL. DEPTH UNKNOWN
70+42.34 – C.O.B. 8" CI WATER LINE X-ING CL. DEPTH UNKNOWN
70+55.21 – C.O.B. 12" VCP SANITARY SEWER LINE X-ING CL. DEPTH UNKNOWN
70+64.72 – NWE 2" STEEL GAS LINE X-ING CL. DEPTH UNKNOWN
70+84.73 – BOZEMAN FIBER & BLACKFOOT UG FIBER OPTIC LINE X-ING CL. DEPTH UNKNOWN

T. 2 S. R. 5 E.
SEC. 12

EX. R/W

70+00

PI 70+57.89
Δ = 0° 12' 11" (RT)

70+92.13
BEG 84' EASE

70+95
84' EASE
71+00.44
BEG 84' CONST. PMT.

70+97
72' EASE 71+04.93

67.63' CONST. PMT.
71+02

64' EASE
71+10

57.63' EASE
71+19.78

END 57.63' CONST. PMT.
71+10

END 49.64' EASE

RIKKI'S FURNITURE GALLERY

RUE BUILDING

EX. EASE.

EX. R/W

EX. R/W

DURSTON RD

N 7TH AVE

N 1° 02' 21" E

N 1° 14' 32" E

EX. R/W

EX. EASE.

70+31.22
END 78' CONST. PMT.
70+29
BEG. 78' CONST. PMT.

W PEACH ST

202+37.33 R/W
59'-EX. R/W=R/W
202+44 R/W
59'

202+58 R/W
42'

EX. R/W

EX. R/W

RSVP MOTEL

VERIZON WIRELESS

DO NOT DISTURB
70+14.12 (50.25' RT.) – FIRE HYDRANT
70+16.39 (49.28' LT.) – POWER POLE
70+29.77 (71.27' LT.) – POWER PEDESTAL
70+31.29 (72.13' LT.) – POWER POLE
70+33.16 (63.25' RT.) – SIGNAL POLE
70+36.72 (76.37' LT.) – SIGNAL CONTROL BOX
70+91.00 (71.80' LT.) – SIGNAL POLE

ADJUST WATER VALVE
70+14.1 (49' RT.)
70+26.4 (49' LT.)
70+29.2 (46' LT.)
70+31.5 (65' LT.)
70+41.8 (45' LT.)

ADJUST FIBER PULL BOX
70+35.83 (67.15' RT.)

3	MONTANA Department of Transportation	C:\DGN\9313000rdpln001.dgn	DESIGNED BY	J. BERAN	9/24/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:47:14 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 37

AWARD COPY

80+00

85+00

95+00

100+00

UTILITY CROSSINGS
81+48.90 – NWE OH POWER LINE X-ING CL. ELEV. 4,814'

U-HAUL

81+40
END 63' CONST. PMT.

81+15
BEG. 63' CONST. PMT.

EX. EASE.

EX. R/W

PI 81+69.94
Δ = 0° 1' 52" (LT)

81+95
BEG 63' CONST. PMT.
82+20
END 63' CONST. PMT.

UTILITY CROSSINGS
81+13.61 – C.O.B. 8" CI WATER LINE X-ING CL. DEPTH UNKNOWN
81+36.89 – C.O.B. UG POWER X-ING CL. DEPTH UNKNOWN
81+65.27 – C.O.B. 8" CI WATER LINE X-ING CL. DEPTH UNKNOWN
81+79.82 – C.O.B. 6" CI WATER LINE X-ING CL. DEPTH UNKNOWN
81+92.77 – C.O.B. 2" DI WATER LINE X-ING CL. DEPTH UNKNOWN
82+05.54 – UG POWER LINE X-ING CL. DEPTH UNKNOWN

T. 2 S. R. 5 E.
SEC. 1

N 7TH AVE

N 1° 14' 32" E

N 1° 12' 40" E

W TAMARACK ST

FIRESTONE COMPLETE AUTO CARE

CITY BREW COFFEE

R/W 81+06
50.38'-EX. R/W=R/W
R/W 81+06
58'
R/W 81+16
58'
R/W 81+40.74
75'-R/W=EX. R/W

REMOVE TREE
81+16 (59' RT.)

ADJUST WATER MANHOLE
81+91.9 (60' RT.)

DO NOT DISTURB
81+24.51 (50.68' LT.) – SIGNAL POLE
81+32.66 (63.43' RT.) – FIRE HYDRANT
81+47.99 (50.94' LT.) – SIGNAL CONTROL BOX
82+02.59 (74.30' RT.) – 82+20.23 (56.22' RT.) – RETAINING WALL
82+12.72 (50.70' LT.) – SIGNAL POLE
82+13.63 (50.66' RT.) – SIGNAL POLE

UTILITY CROSSINGS
97+08.00 – CHARTER OH FIBER OPTIC LINE X-ING CL. ELEV. UNKNOWN
97+10.30 – NWE OH POWER LINE X-ING CL. ELEV. 4,802'
97+12.33 – CHARTER OH CABLE TV LINE X-ING CL. ELEV. 4,790'

UTILITY CROSSINGS
96+92.06 – C.O.B. 18" CMP STORM DRAIN X-ING CL. DEPTH UNKNOWN
96+94.49 – CENTURY LINK UG FIBER OPTIC LINE X-ING CL. DEPTH UNKNOWN
97+07.59 – C.O.B. UG POWER LINE X-ING CL. DEPTH UNKNOWN
97+13.29 – BOZEMAN UG FIBER OPTIC LINE X-ING CL. DEPTH UNKNOWN
97+29.38 – NWE 12" GAS LINE X-ING CL. DEPTH UNKNOWN
97+60.20 – C.O.B. 15" PVC SANITARY SEWER X-ING CL. DEPTH UNKNOWN
97+98.88 – C.O.B. 14" DI WATER LINE X-ING CL. DEPTH UNKNOWN

BOZEMAN INN

96+97
BEG 48.62' EASE
96+97
60' EASE
97+04
60' EASE
97+41
62' EASE
97+21.94
END 78' EASE

PI 97+65.65
Δ = 1° 12' 53" (RT)

EX. R/W

98+15.09 R/W
99'-EX. R/W=R/W
98+24 R/W
99'
98+25 R/W
89.74'-R/W=EX. R/W

SCRUBBY'S CAR WASH

N 7TH AVE

N 1° 12' 40" E

N 2° 25' 33" E

R/W 96+81.01
EX. R/W=R/W-51.33'
96+81.14
EX. BEG 5' CONST. PMT.
R/W 96+94.84
R/W=EX. R/W-68'
96+94.73
END 5' CONST. PMT.

FAMOUS DAVE'S BAR-B-QUE

W OAK ST

OAK-SE
96+91.86 (48.54' RT.)
NEW TYPE A CURB INLET
NEW CONCRETE APRON
CONNECT CMP TO EXISTING CMP
REMOVE CURB INLET IN PL.
SEE DETAIL

OAK-NW
98+28.88 (58.39' LT.)
MODIFY DROP INLET
NEW CONCRETE APRON
SEE DETAIL

308+49.57 R/W
43.39'
EX. R/W = R/W
308+60 R/W
40'

LUBE ALLEY

100+12.34
END CMDP 118-1(5)0

DO NOT DISTURB
96+96.25 (55.52' LT.) – SIGNAL CONTROL BOX
97+04.65 (53.31' LT.) – SIGNAL POLE
97+06.49 (62.25' LT.) – 97+19.54 (72.72' LT.) – LANDSCAPING
97+36.62 (79.61' LT.) – GAS VALVE
98+24.38 (97.66' LT.) – 98+51.57 (65.25' LT.) – RETAINING WALL
98+30.20 (69.21' LT.) – SIGNAL POLE
98+33.80 (50.45' RT.) – SIGNAL POLE

REMOVE FIRE HYDRANT
97+99.0 (89' RT.)

3 1	MONTANA Department of Transportation	C:\DGN\9313000rdpln001.dgn 3/31/2025 7:47:18 AM CPS – U5198	DESIGNED BY REVIEWED BY CHECKED BY	J. BERAN R. BARBULA J. CERECK	9/24/2024 10/4/2024 1/16/2025	ROAD PLANS GALLATIN COUNTY	N 7TH AVE INT IMPROV - BOZEMAN UPN 9313000	CMDP 118-1(5)0 38

AWARD COPY

UTILITY CROSSINGS
202+67.74 – OH POWER LINE X-ING CL. ELEV. 4,815'
202+67.87 – OH POWER LINE X-ING CL. ELEV. 4,815'
202+68.44 – OH TELEPHONE LINE X-ING CL. ELEV. 4,826'
203+62.39 – OH POWER LINE X-ING CL. ELEV. UNKNOWN
204+67.63 – OH POWER LINE X-ING CL. ELEV. UNKNOWN
204+70.17 – CHARTER OH POWER LINE X-ING CL. ELEV. UNKNOWN
206+48.30 – OH CABLE TV LINE X-ING CL. ELEV. UNKNOWN
206+48.56 – OH CABLE TV LINE X-ING CL. ELEV. 4,807'

UTILITY CROSSINGS
202+18.15 – C.O.B. 8" CI WATER LINE X-ING CL. DEPTH UNKNOWN
202+21.17 – CENTURY LINK REPORTEDLY ABANDONED UG TELEPHONE LINE X-ING CL. DEPTH UNKNOWN
202+21.52 – CENTURY LINK REPORTEDLY ABANDONED UG TELEPHONE LINE X-ING CL. DEPTH UNKNOWN
202+23.06 – CENTURY LINK UG TELEPHONE LINE X-ING CL. DEPTH UNKNOWN
202+46.20 – UG POWER LINE X-ING CL. DEPTH UNKNOWN
202+54.05 – BOZEMAN FIBER & BLACKFOOT UG FIBER OPTIC LINE X-ING CL. DEPTH UNKNOWN
204+17.42 – NWE 2" STEEL GAS LINE X-ING CL. DEPTH UNKNOWN
204+85.79 – C.O.B. 8" DI WATER LINE X-ING CL. LINE DEPTH UNKNOWN
205+29.10 – BOZEMAN UG FIBER OPTIC LINE X-ING CL. DEPTH UNKNOWN
206+45.65 – C.O.B. UG WATER LINE DEPTH UNKNOWN
206+47.08 – C.O.B. UG WATER LINE DEPTH UNKNOWN

T. 2 S. R. 5 E.
SEC. 1 & 12

200+00
EX. EASE.
EX. R/W
70+92.13 BEG 8' EASE
70+95 8' EASE
71+00.44 BEG 8' CONST. PMT.
70+97 72' EASE 71+04.93
71+02 67.63' CONST. PMT.
71+10 64' EASE
71+19.78 57.63' EASE
71+10 END 57.63' CONST. PMT.
END 49.64' EASE
DURSTON RD
S 86° 32' 37" E
PI 201+86.91
Δ = 2° 20' 14" (LT)
202+27.21
BEG. WORK
202+37.33 R/W
59' EX. R/W = R/W
202+44 R/W
59'
202+58 R/W
42'
CONTINUE NEW SIDEWALK, CURB AND GUTTER, & SOD FROM 202+70.00 TO 202+96.94
VERIZON WIRELESS
203+50 65' BEG. CONST. PMT. 203+67 R/W 42'
203+70 65' 42' CONST. PMT. 203+67 R/W 39.22'
R/W = EX. R/W
GENUINE ICE CREAM
PI 204+95.35
Δ = 0° 4' 1" (RT)
205+00 END 42' CONST. PMT.
NEW AGE ARTISANS
PRIVATE RESIDENCE
206+75 BEG 34' CONST. PMT.
207+40 END 34' CONST. PMT.
POE 207+74.22
S 88° 52' 50" E
W PEACH ST
S 88° 48' 49" E
N 7TH AVE
RSVP MOTEL
70+31.22 END 78' CONST. PMT.
70+29 BEG. 78' CONST. PMT.
N 6TH AVE
N 5TH AVE
207+39.00
END WORK

REMOVE TREE
202+81 (29' LT.)
203+14 (28' LT.)
203+49 (29' LT.)
204+53 (28' LT.)
204+96 (24' LT.)
205+16 (28' LT.)

TREE
202+78 (45' LT.)
203+08 (46' LT.)
203+48 (46' LT.)
204+53 (41' LT.)
204+89 (35' LT.)
205+14 (43' LT.)

DO NOT DISTURB
203+53.66 (47.87' LT.) – POWER PEDESTAL
204+03.97 (39.41' LT.) – POWER BOX
205+02.82 (9.10' RT.) – STORM DRAIN MANHOLE

ADJUST GAS VALVE
203+72.7 (32' LT.)

CURB STOP VALVE
204+17.0 (39' LT.)

203+83
JOINT-USE PRIVATE APP. LT.
30' WIDE

205+39
PRIVATE APP. LT.
21' WIDE

206+27
PRIVATE APP. LT.
22' WIDE

ADJUST WATER VALVE
204+14.0 (11' LT.)
206+18.1 (8' LT.)
206+47.0 (6' LT.)
206+47.4 (17' LT.)

REMOVE FIRE HYDRANT
204+70.3 (20' LT.)

CURB INLET GRATE (5TH-NW)
207+56.47 (32' LT.)

3	MONTANA Department of Transportation	C:\DGN\9313000rdpln002.dgn	DESIGNED BY J. BERAN	9/24/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY R. BARBULA	10/4/2024			
		7:47:34 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	39

AWARD COPY

UTILIY CROSSINGS
306+49.53 – OH POWER LINE CL ELEV. 4,787'
306+49.88 – OH POWER LINE CL ELEV. 4,797'

T. 2 S. R. 5 E.
SEC. 1

300+00

305+00

EX. R/W

SCRUBBY'S CAR WASH

98+15.09 R/W
99'-EX. R/W=R/W
98+24 R/W
99'
98+25 R/W
89.74'-R/W=EX. R/W

W OAK ST

S 87° 56' 50" E

EX. R/W

EX. R/W

EX. R/W

EX. R/W

EX. R/W

300+00.00
BEG. WORK

96+97
BEG 48.62' EASE
96+97
60' EASE
97+04
60' EASE
97+41
62' EASE
97+21.94
END 78' EASE

BOZEMAN INN

N 7TH AVE

EX. R/W

EX. EASE

3	MONTANA Department of Transportation	C:\DGN\9313000rdpln003.dgn	DESIGNED BY	J. BERAN	9/24/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		3/31/2025	REVIEWED BY	R. BARBULA	10/4/2024		
		7:47:48 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / 40

AWARD COPY

UTILITY CROSSINGS
306+49.88 – NWE OH POWER LINE ELEV. 4,787'
310+01.76 – NWE OH POWER LINE ELEV. UNKNOWN
310+04.82 – OH CABLE TV LINE ELEV. UNKNOWN
312+86.26 – CHARTER OH CABLE TV LINE ELEV. UNKNOWN
312+89.52 – NWE OH POWER LINE ELEV. UNKNOWN
312+92.67 – CHARTER OH FIBER OPTIC LINE ELEV. UNKNOWN

UTILITY CROSSINGS
306+88.98 – NWE 12" STEEL GAS LINE X'ING CL. DEPTH UNKNOWN
306+90.51 – UG TRAFFIC LOOP X'ING CL. DEPTH UNKNOWN
306+98.79 – MONTANA OPTICOM (2) 144 STRAND UG FIBER LINE X'ING CL. DEPTH UNKNOWN
307+00.99 – UG TRAFFIC LOOP X'ING CL. DEPTH UNKNOWN
307+06.95 – UG TRAFFIC LOOP X'ING CL. DEPTH UNKNOWN
307+07.43 – C.O.B. UG POWER LINE X'ING CL. DEPTH UNKNOWN
307+07.80 – C.O.B. UG POWER LINE X'ING CL. DEPTH UNKNOWN
307+20.75 – C.O.B. 18" RCP STORM DRAIN X'ING CL. DEPTH UNKNOWN
307+26.62 – NWE 4" STEEL GAS LINE X'ING CL. DEPTH UNKNOWN
307+43.94 – C.O.B. 8" DI WATER LINE X'ING CL. DEPTH UNKNOWN
308+10.97 – CENTURY LINK (3) ABANDONED UG TELEPHONE LINE X-ING CL. DEPTH UNKNOWN
308+35.67 – C.O.B. UG POWER LINE X'ING CL. DEPTH UNKNOWN
308+36.01 – C.O.B. UG POWER LINE X'ING CL. DEPTH UNKNOWN
308+39.38 – UG TRAFFIC LOOP X'ING CL. DEPTH UNKNOWN
308+48.65 – UG TRAFFIC LOOP X'ING CL. DEPTH UNKNOWN
308+54.41 – UG TRAFFIC LOOP X'ING CL. DEPTH UNKNOWN
309+70.21 – C.O.B. UG WATER LINE X'ING CL. DEPTH UNKNOWN
309+93.00 – NWE UG GAS LINE X'ING CL. DEPTH UNKNOWN
310+03.49 – CENTURY LINK UG TELEPHONE LINE X'ING CL. DEPTH UNKNOWN
310+09.17 – C.O.B. UG WATER LINE X'ING CL. DEPTH UNKNOWN
310+99.59 – CENTURY LINK UG FIBER OPTIC LINE X'ING CL. DEPTH UNKNOWN

T. 2 S. R. 5 E.
SEC. 1

PI 307+72.26
Δ = 4° 52' 50" (RT)

PC 309+39.18
PI =310+75.56
Δ =6° 21' 08" (LT)
R =2,458'
T =136.37'
L =272.47'
E =3.78'

PT 312+11.65

310+00

315+00

EX. R/W
308+49.57 R/W 43.39'
EX. R/W = R/W
308+60 R/W 40'
LUBE ALLEY
311+08.52 R/W 40'
R/W = EX. R/W
311+85 R/W 40.14'
EX. R/W = R/W
R/W 45'
COMFORT INN
312+70 BEG. 2' CONST. PMT.
313+25 END 2' CONST. PMT.
313+60 R/W 45'
313+60 R/W 42.86'
R/W = EX. R/W

S 83° 04' 00" E
W OAK ST
S 89° 18' 40" E

N 7TH AVE
R/W 96+81.01
EX. R/W=R/W=51.33'
96+81.14
BEG. 5' CONST. PMT.
R/W 96+94.84
R/W=EX. R/W-68'
96+94.73
END 5' CONST. PMT.
FAMOUS DAVE'S BAR-B-QUE

EX. EASE.

315+08.00
END WORK

REMOVE TREE	TREE
308+91 (45' LT.)	308+84 (53' LT.)
309+16 (45' LT.)	309+09 (52' LT.)
310+55 (42' LT.)	310+55 (54' LT.)
310+72 (47' LT.)	310+72 (59' LT.)
310+84 (42' LT.)	310+84 (54' LT.)
310+96 (46' LT.)	310+96 (58' LT.)
311+15 (41' LT.)	311+15 (53' LT.)
311+31 (45' LT.)	311+31 (57' LT.)
311+44 (42' LT.)	311+44 (54' LT.)
313+37 (32' LT.)	313+55 (50' LT.)

DO NOT DISTURB
308+86.92 (9.62' LT.) – POWER POLE
309+87.71 (40.08' LT.) – POWER POLE
309+92.11 (38.47' LT.) – POWER PEDESTAL
310+23.34 (4.76' RT.) – SANITARY SEWER MANHOLE
313+03.67 (35.54' LT.) – TELEPHONE PEDESTAL

ADJUST WATER VALVE
310+05.6 (20' LT.)
310+08.5 (23' LT.)

309+63
PRIVATE APP. LT.
32' WIDE

312+54
PRIVATE APP. LT.
35' WIDE

3 / 1	MONTANA Department of Transportation	C:\DGN\9313000rdpln003.dgn	DESIGNED BY J. BERAN	9/24/2024	ROAD PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
		3/31/2025	REVIEWED BY R. BARBULA	10/4/2024			
		7:47:51 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	41

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Morrison Maierle

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(IV)		SQ. FOOT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(XI)	334.9	SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (IV)		SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (XI)	198.0	SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL "U"		POUNDS
POLES-TREATED WOOD-4" DIA.		LINEAR FT.
POLES-TREATED WOOD-5" DIA.		LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL (ROUND)		POUNDS
POSTS-TUBULAR STEEL (SQUARE PERFORATED)	2,019	POUNDS
POSTS-STRUCTURAL STEEL		POUNDS
OVERHEAD STRUCTURE-METAL-CANTILEVER		EACH
OVERHEAD STRUCTURE-METAL-BRIDGE		EACH
HIGHWAY TRAFFIC STRIPING-WHITE		GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW		GAL.(S)
WORDS & SYMBOLS		GAL.(S)
DELINEATOR-FLEXIBLE SURFACE MOUNT-YELLOW		EACH
DELINEATOR-DESIGN A		EACH
DELINEATOR-DESIGN B		EACH
DELINEATOR-DESIGN C		EACH
DELINEATOR-DESIGN D		EACH
DELINEATOR-DESIGN E		EACH
DELINEATOR-DESIGN F		EACH
DELINEATOR-DESIGN G		EACH
DELINEATOR-DESIGN H		EACH
REMOVE SIGNS	52	EACH
REMOVE SIGNS-GUIDE		EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE- 3" RND		EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE-		EACH
SQUARE TUBULAR SLIPBASE BREAKAWAY DEVICE-3"	1	EACH

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

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

★ = TELESCOPED SQUARE TUBES (2¼" & 2½") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x ¼" ANGLE IRON REQ'D.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

FYG = TYPE XI FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

SIGNING NOT LISTED IS "USE AS IS"

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SIGN LOCATION AND SPECIFICATIONS

Morrison Maierle

STATION	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	FEET: 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/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
SEVENTH AVE AND W MENDENHALL ST																													
51+00 RT		R7-1	12x18			4-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	1.5					43			▲	1					REPLACE FROM STATION 51+22
51+30 RT		R6-1L R3-1	36x12 36x36											3.0 9.0														REPLACE FROM STATION 51+40
		R6-1R R3-2	36x12 36x36			4-0		2.5 INCH Sq TUBE	11-0			7-0	3-0	3.0 9.0					89			★	1					MOUNTED BACK TO BACK
51+49 LT		OHR3-2 OHD3	36x36 90x24				MOUNTED ON MAST ARM							9.0	15.0								1					OHD3 = W MENDENHALL ST
52+00 LT		OHD3	84x24				MOUNTED ON MAST ARM								14.0								1					OHD3 = N SEVENTH AVE
52+10 LT		R6-1L R6-1L	36x12 36x12				MOUNTED ON LIGHT POLE					7-0		3.0 3.0									1					
52+14 RT		OHR3-1 OHD3	36x36 90x24				MOUNTED ON MAST ARM							9.0	15.0								1					OHD3 = W MENDENHALL ST
SEVENTH AVE AND DURSTON RD/PEACH ST																													
200+80 RT		R3-17	24x18			2-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	3.0					43			▲	1					
200+80 LT		R3-17 R7-1	24x18 12x18			2-0		2.0 INCH Sq TUBE	11-7			7-0	3-0	3.0 1.5					47			▲	1					
201+14 LT		OHD3	84x24				MOUNTED ON MAST ARM								14.0								1					OHD3 = N SEVENTH AVE
201+48 RT		OHD3	84x48				MOUNTED ON MAST ARM								28.0								1					OHD3 = PEACH ST/DURSTON RD
202+25 LT		OHD3	84x48				MOUNTED ON MAST ARM								28.0								1					OHD3 = DURSTON RD/PEACH ST
202+50 RT		OHD3	84x24				MOUNTED ON MAST ARM								14.0								1					OHD3 = N SEVENTH AVE
202+88 RT		R7-1	12x18				MOUNTED ON LIGHT POLE					7-0		1.5									1					
202+89 LT		R3-17 BY OTHERS	24x18 REMOVE			2-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	3.0					43			▲	1					BY OTHERS = SNOW ROUTE
203+21 LT		R7-1	12x18			2-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	1.5					43			▲	1					
203+49 RT		R2-1(15)	24x30			2-0		2.0 INCH Sq TUBE	11-0			7-0	3-0	5.0					58			▲	1					
203+94 RT		R3-17 R7-1	24x18 12x18				MOUNTED ON POWER POLE					7-0		3.0 1.5									1					
204+38 RT		S1-1 W16-9p	36x36 24x12				MOUNTED ON POWER POLE					7-0		6.8 2.0									1				FYG	FYG = S1-1 ONLY REPLACE FROM STA 203+49
205+24 RT		D-3 D-3	30x12 30x12											2.5 2.5														D-3 = N 6TH AVE
		D-3 D-3	36x12 36x12											3.0 3.0														D-3 = W PEACH ST
		R1-1	30x30			6-0		2.5 INCH Sq TUBE	13-2			7-0	3-0	5.2					66			▲	1					
205+56 RT		R99-1a	USE AS IS																									
205+88 RT		S4-3p R2-1(15)	24x9 24x30			2-0		2.5 INCH Sq TUBE	11-10			7-0	3-0	1.5 5.0					61			▲	1				FYG	FYG = S4-3p ONLY
204+85 LT		R7-1	12x18			2-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	1.5					43			▲	1					
206+22 RT		R7-1 BY OTHERS	12x18 USE AS IS			2-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	1.5					43			▲	1					BY OTHERS = SNOW ROUTE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	$FILESS	DESIGNED BY	LACEY R FORREY	09/2024	SIGNING PLANS		N 7TH AVE INT IMPROV - BOZEMAN		CMDP 118-1(5)0
1		5/13/2025				GALLATIN COUNTY			UPN 9313000	S2
		8:25:58 AM lforrey								

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

STATION	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	REMARKS
206+82 LT		R7-1	12x18			2-0		2.0 INCH Sq TUBE		10-0		7-0	3-0	1.5						43			▲	1					NO PARKING THIS SIGN
207+17 LT		BY OTHERS	USE AS IS																										BY OTHERS = BIKE LANE/ PARKING LANE
207+40 RT		S1-1 W16-7pL	36x36 21x15											6.8 2.2														
		S1-1 W16-7pR	36x36 21x15				REPLACE SIGN FACE ONLY							6.8 2.2										1				FYG	MOUNTED BACK TO BACK
207+40 LT		S1-1 W16-7pR	36x36 21x15											6.8 2.2														
		S1-1 W16-7pL	36x36 21x15				SEE ELECTRICAL PLANS FOR SIGN SUPPORTS							6.8 2.2										1				FYG	MOUNTED BACK TO BACK
SEVENTH AVE AND TAMARACK ST																													
81+25 LT		OHD3	84x24				MOUNTED ON MAST ARM								14.0									1					OHD3 = W TAMARACK ST
81+91 RT		R7-1	12x18			2-0		2.0 INCH Sq TUBE		10-0		7-0	3-0	1.5						43			▲	1					NO PARKING THIS SIGN
82+00 LT		OHD3	84x24				MOUNTED ON MAST ARM								14.0									1					OHD3 = N SEVENTH AVE
82+12 RT		OHD3	84x24				MOUNTED ON MAST ARM								14.0									1					OHD3 = W TAMARACK ST
SEVENTH AVE AND OAK ST																													
301+25 RT		R7-1	12x18			6-0		2.0 INCH Sq TUBE		10-0		7-0	3-0	1.5						43			▲	1					NO PARKING THIS SIGN
301+25 LT		R3-9b R7-1	24x36 12x18			2-0		2.5 INCH Sq TUBE		13-1		7-0	3-0	6.0 1.5						65			▲	1					LEFT TURN YIELD ON GREEN ; NO PARKING THIS SIGN
302+50 RT		R3-7R	36x36			6-0		2.5 INCH Sq TUBE		10-0		7-0	3-0	9.0						83			▲	1					RIGHT LANE MUST TURN RIGHT
303+77 RT		R3-9k R7-1	24x42 12x18			6-0		2.5 INCH Sq TUBE		12-1		7-0	3-0	7.0 1.5						95			▲	1					TRUCK ROUTE ; NO PARKING THIS SIGN
303+77 LT		R3-9J BY OTHERS	24x42 REMOVE			2-0		2.5 INCH Sq TUBE		12-1		7-0	3-0	7.0						95			▲	1					BY OTHERS = SNOW ROUTE
304+23 LT		R2-1(35) R7-1	30x36 12x18			2-0		2.5 INCH Sq TUBE		11-7		7-0	3-0	7.5 1.5						92			▲	1					SPEED LIMIT 35 ; NO PARKING THIS SIGN
304+38 RT		R4-4	36x30			6-0		2.5 INCH Sq TUBE		11-0		7-0	3-0	7.5						58			▲						RIGHT TURN LANE YIELD TO BIKES
305+38 RT		R3-8b	48x30			6-0		2.5 INCH Sq TUBE		9-6		7-0	3-0	10.0						80			▲	1				BBR	ONLY ; ONLY ; ONLY
306+44 LT		R3-17 R7-1	24x18 12x18			2-0		2.0 INCH Sq TUBE		11-7		7-0	3-0	3.0 1.5						47			▲	1					BIKE LANE ; NO PARKING THIS SIGN
307+05 LT		OHD3 OHR3-5L	84x24 30x36											7.5	14.0									1					OHD3 = N SEVENTH AVE ; ONLY
		OHR3-5a OHR3-6R	30x36 30x36				MOUNTED ON MAST ARM							7.5 7.5															ONLY ; ONLY
307+32 RT		OHD3	42x24				MOUNTED ON MAST ARM							7.0										1					OHD3 = OAK ST
308+08 LT		OHD3	42x24				MOUNTED ON MAST ARM							7.0										1					OHD3 = OAK ST
308+38 RT		OHD3 OHR3-8b	84x24 REMOVE												14.0									1					OHD3 = N SEVENTH AVE ; ONLY ; ONLY ; ONLY
		OHR3-5L OHR3-5a	30x36 30x36											7.5 7.5															ONLY ; ONLY
		OHR3-5R	30x36				MOUNTED ON MAST ARM							7.5															ONLY

Morrison Maierle

2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	sFILESs 5/13/2025 8:26:12 AM lforrey	DESIGNED BY	LACEY R FORREY	09/2024	SIGNING PLANS GALLATIN COUNTY	N 7TH AVE INT IMPROV - BOZEMAN / UPN 9313000 — CMDP 118-1(5)0 / S3

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

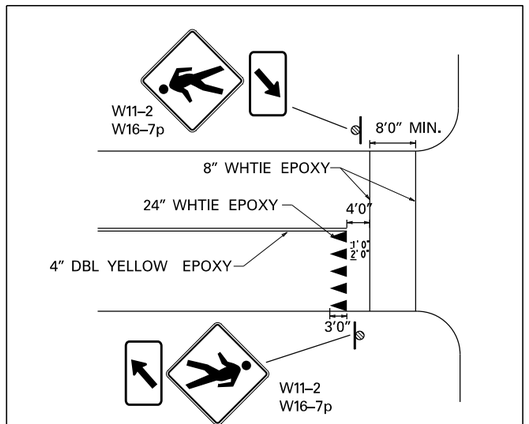
Morrison Maierle

STATION		SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	FEET: 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/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
310+00 LT		R3-8d M1-1	REMOVE 24x24										4.0															
		M6-1R	21x15			2-0		2.5 INCH Sq TUBE	12-1			7-0	3-0	2.2					61			▲	1					
310+15 RT		R3-17 R7-1	24x18 12x18			2-0		2.0 INCH Sq TUBE	11-7			7-0	3-0	3.0 1.5					47			▲	1					
310+25 LT		R7-1	12x18			6-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	1.5					43			▲	1					
311+00 LT		R3-8d	48x30			2-0		2.5 INCH Sq TUBE	9-6			7-0	3-0	10.0					80			▲	1				BBR	
311+15 RT		R2-1(35)	30x36			2-0		2.5 INCH Sq TUBE	11-7			7-0	3-0	7.5					92			▲	1					
312+26 LT		R3-17	24x18			2-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	3.0					43			▲	1					REPLACE FROM STATION 311+00
312+30 LT		R1-1	30x30			2-0		2.5 INCH Sq TUBE	11-0			7-0	3-0	5.2					57			▲						NEW INSTALLATION
312+63 RT		S1-1 W16-9p	30x30 24x12			2-0		2.5 INCH Sq TUBE	12-6			7-0	3-0	4.7 2.0					62			▲	1				FYG	
313+44 RT		R7-1	12x18			2-0		2.0 INCH Sq TUBE	10-0			7-0	3-0	1.5					43			▲	1					
314+10 RT		R3-8b	30x30			2-0		2.5 INCH Sq TUBE	11-0			7-0	3-0	6.3					58			▲	1					
315+00 LT		R3-17 R7-1	24x18 12x18			2-0		2.0 INCH Sq TUBE	11-7			7-0	3-0	3.0 1.5					47			▲	1					
315+00 RT		W11-12 W16-7pL	30x30 21x15			2-0		2.5 INCH Sq TUBE	12-7			7-0	3-0	6.3 2.2					63			▲	1				FY	
TOTALS													334.9	198.0					2019				52					

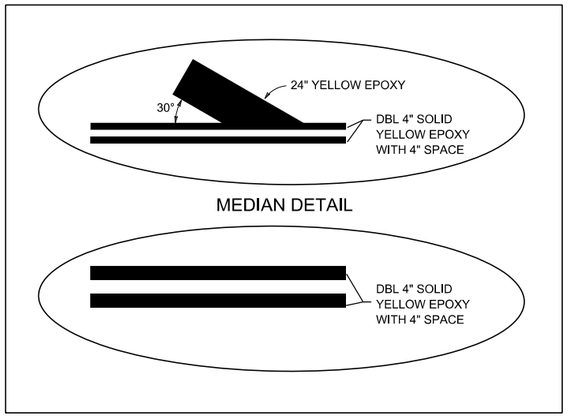
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DETAILS

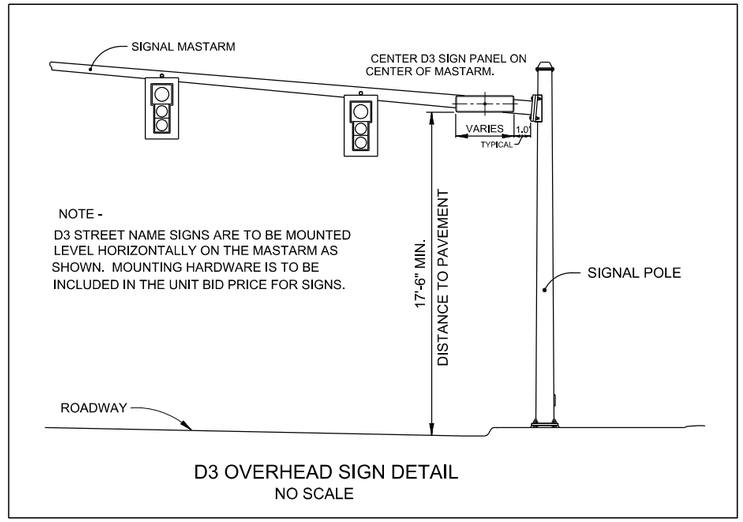
Morrison Maierle



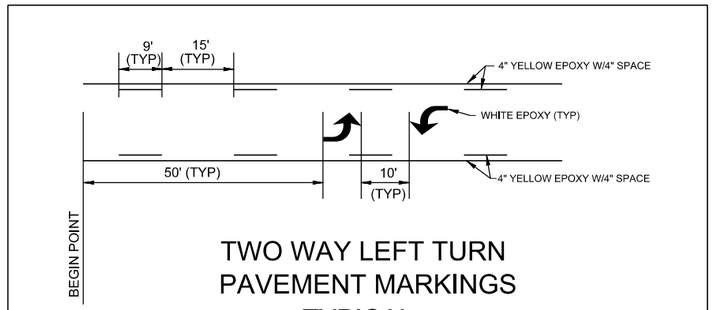
PEDESTRIAN CROSSING
PAVEMENT MARKINGS



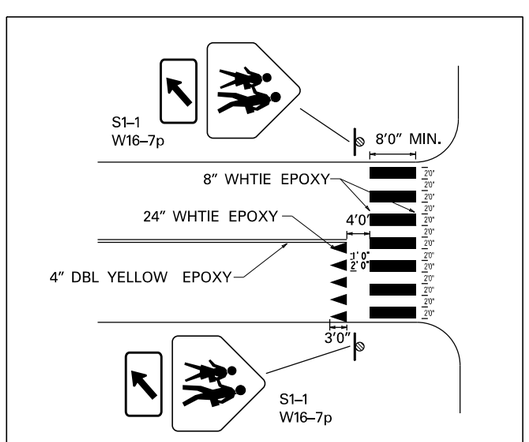
MEDIAN DETAIL



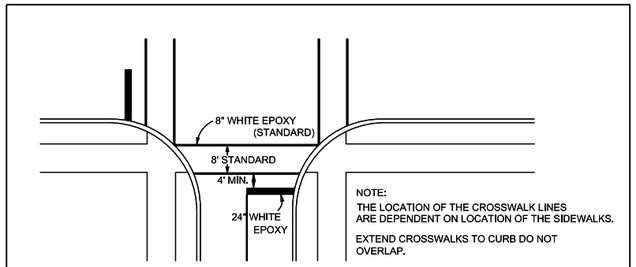
D3 OVERHEAD SIGN DETAIL
NO SCALE



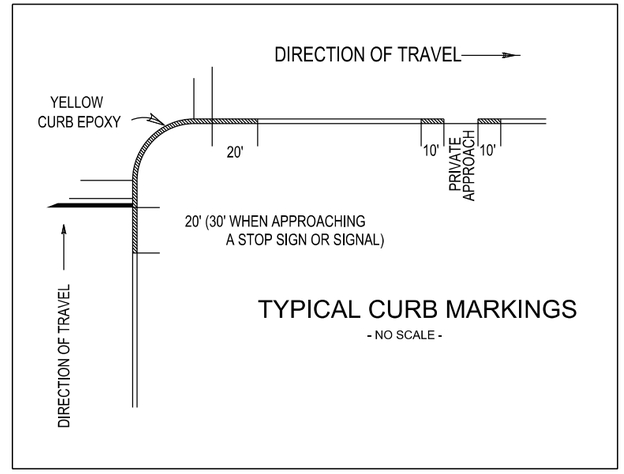
TWO WAY LEFT TURN
PAVEMENT MARKINGS
TYPICAL
URBAN



SCHOOL CROSSING
PAVEMENT MARKINGS

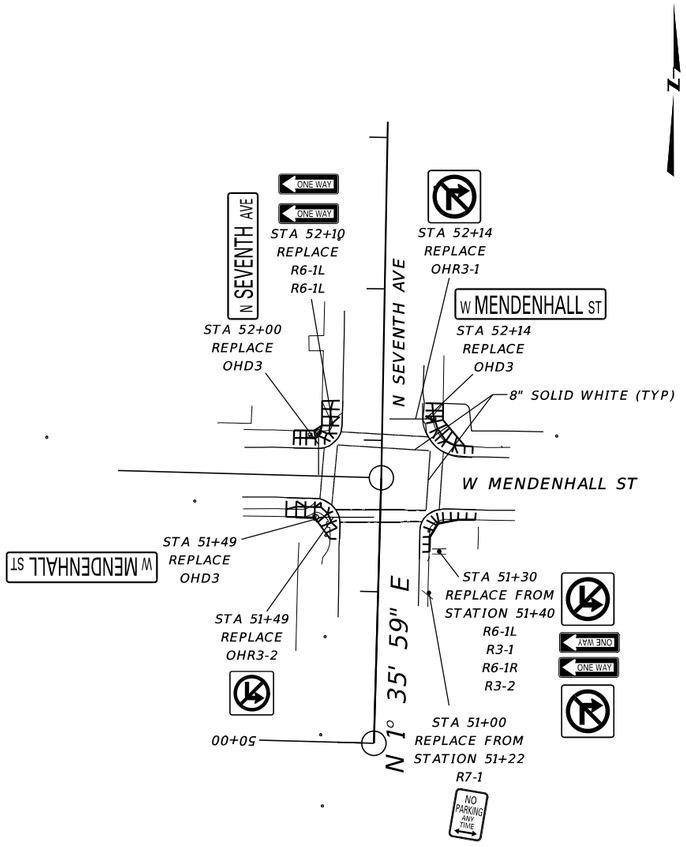


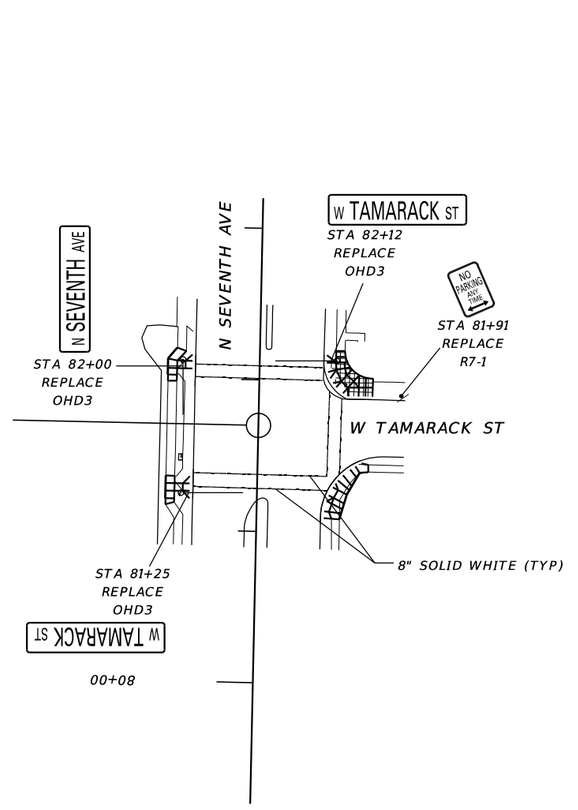
TYPICAL PAVEMENT MARKINGS
FOR PEDESTRIAN CROSSINGS



TYPICAL CURB MARKINGS
- NO SCALE -

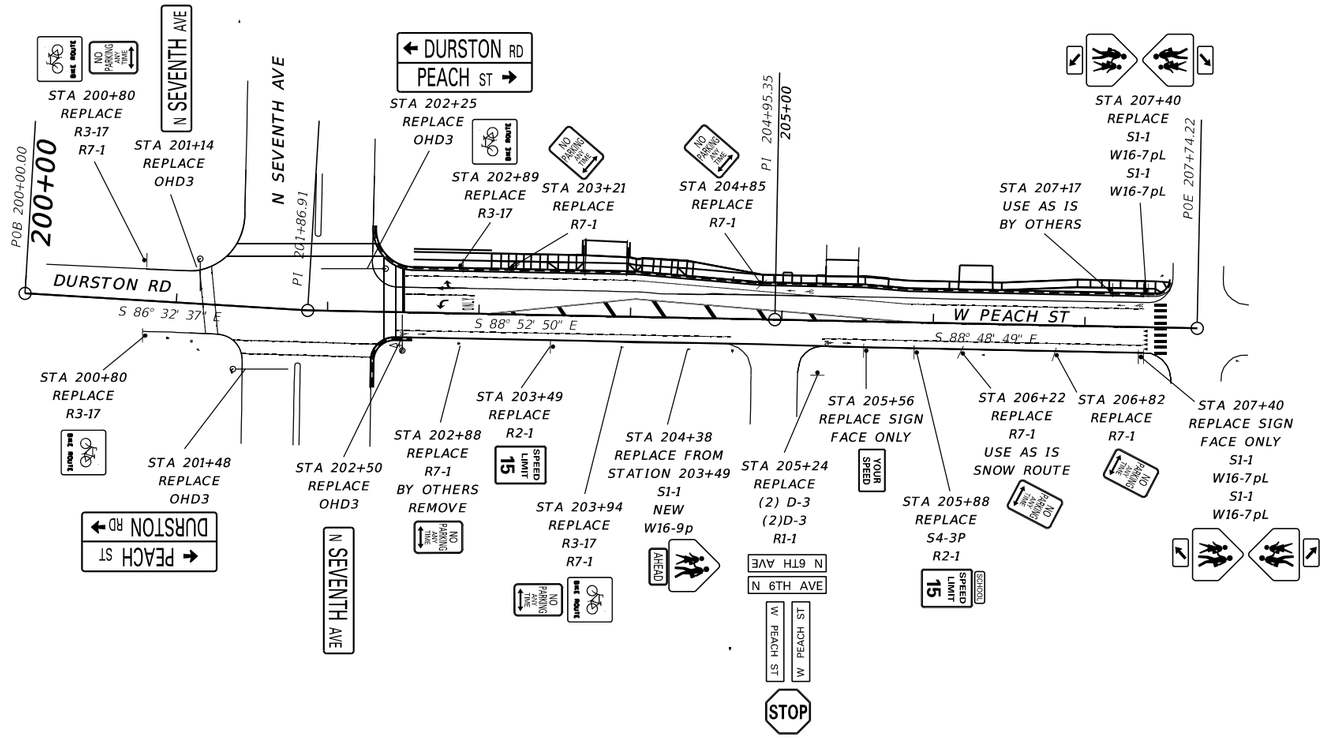
Morrison Maierle





3	MONTANA Department of Transportation	...\9313000\SI\9313000SIPLN01.dgn	DESIGNED BY	LACEY R FORREY	09/2024	SIGNING PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		5/13/2025				GALLATIN COUNTY	UPN 9313000 / S6
		8:31:43 AM lforrey					

Morrison Maierle



3 / 1	MONTANA Department of Transportation	...\9313000\SI\9313000SIPLN.dgn	DESIGNED BY	LACEY R FORREY	09/2024	SIGNING PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
		5/13/2025				GALLATIN COUNTY	UPN 9313000 / S7
		8:32:05 AM lforrey					

AWARD COPY

Morrison Maierle

POB 300+00.00

300+00

STA 301+25
REPLACE
R3-9b
R7-1

STA 301+25
REPLACE
R7-1

STA 302+50
REPLACE
R3-7R

STA 303+77
REPLACE
R3-9j
BY OTHERS
REMOVE

STA 303+77
REPLACE
R3-9k
R7-1

STA 304+23
REPLACE
R2-1
R7-1

STA 304+38
NEW
R4-4

STA 305+38
REPLACE
R3-8b

STA 306+44
REPLACE
R3-17
R7-1

STA 307+05
NEW
OHR3-5L
OHR3-5a
OHR3-6R

STA 307+05
REPLACE
OHD3

N SEVENTH AVE

PI 307+72.26

STA 307+32
REPLACE
OHD3

OAK ST

STA 308+08
REPLACE
OHD3

PC 309+39.38

STA 308+38
REMOVE
OHR3-8b
NEW
OHR3-5L
OHR3-5a
OHR3-5R

STA 308+38
REPLACE
OHD3

N SEVENTH AVE

310+00

STA 310+00
REMOVE
R3-8d
REPLACE
M1-1
M6-1

STA 310+25
REPLACE
R7-1

STA 310+15
REPLACE
R3-17
R7-1

STA 311+00
REPLACE
R3-8d

STA 311+15
REPLACE
R2-1

PT 312+11.65

STA 312+26
REPLACE FROM
STA 311+00
R3-17

STA 312+30
NEW
R1-1

STA 312+63
REPLACE
S1-1
W16-9p

AHEAD

STA 313+44
NEW
R7-1

STA 314+10
REPLACE
R3-8b

STA 315+00
REPLACE
R3-17
R7-1

315+00

W OAK ST

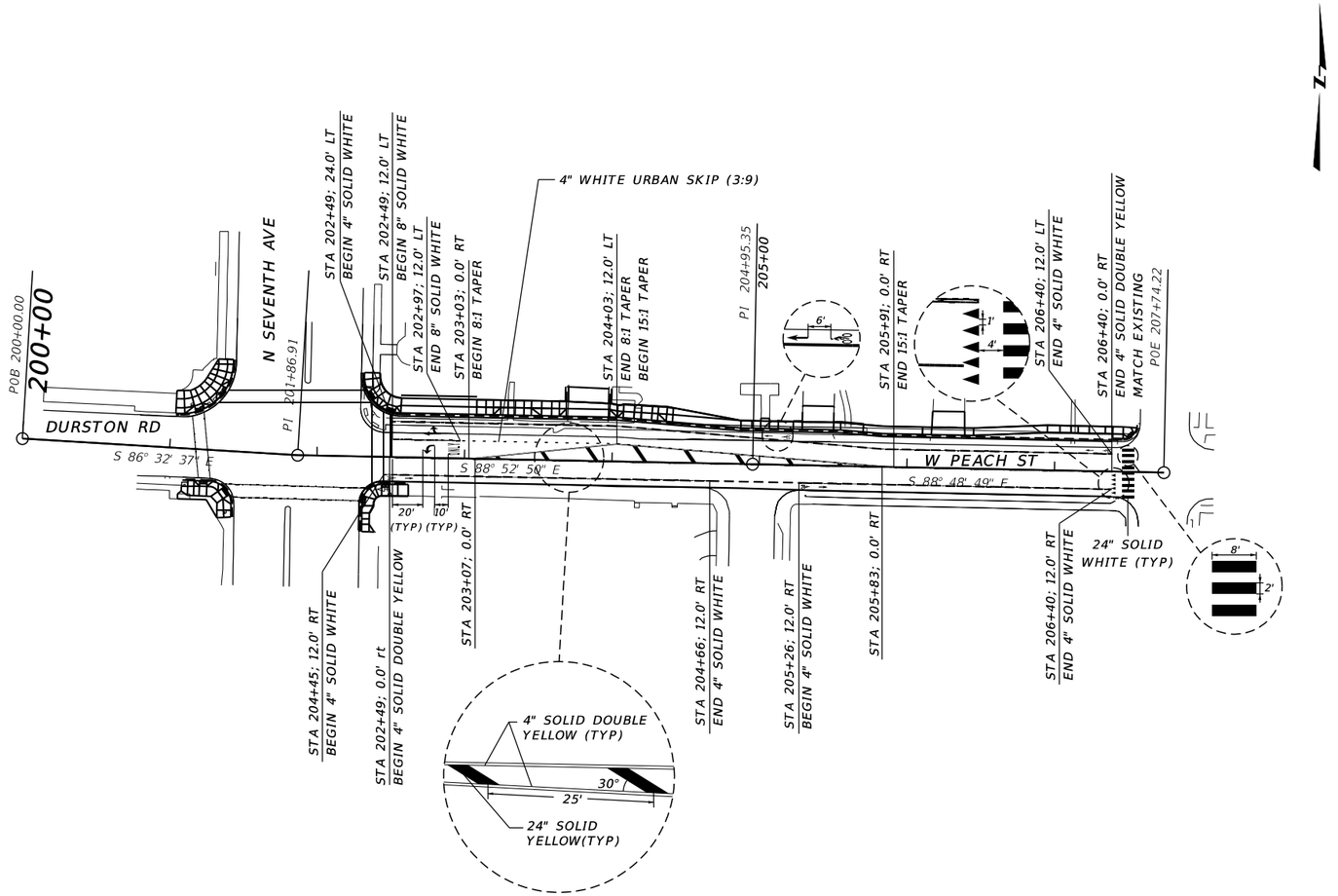
STA 315+00
REPLACE
W11-12
W16-7pL

N

2	MONTANA Department of Transportation	..\9313000\SI\9313000SIPLN01.dgn	DESIGNED BY	LACEY R FORREY	09/2024	SIGNING PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
1		5/13/2025 8:32:19 AM lforrey				GALLATIN COUNTY	UPN 9313000 / S8

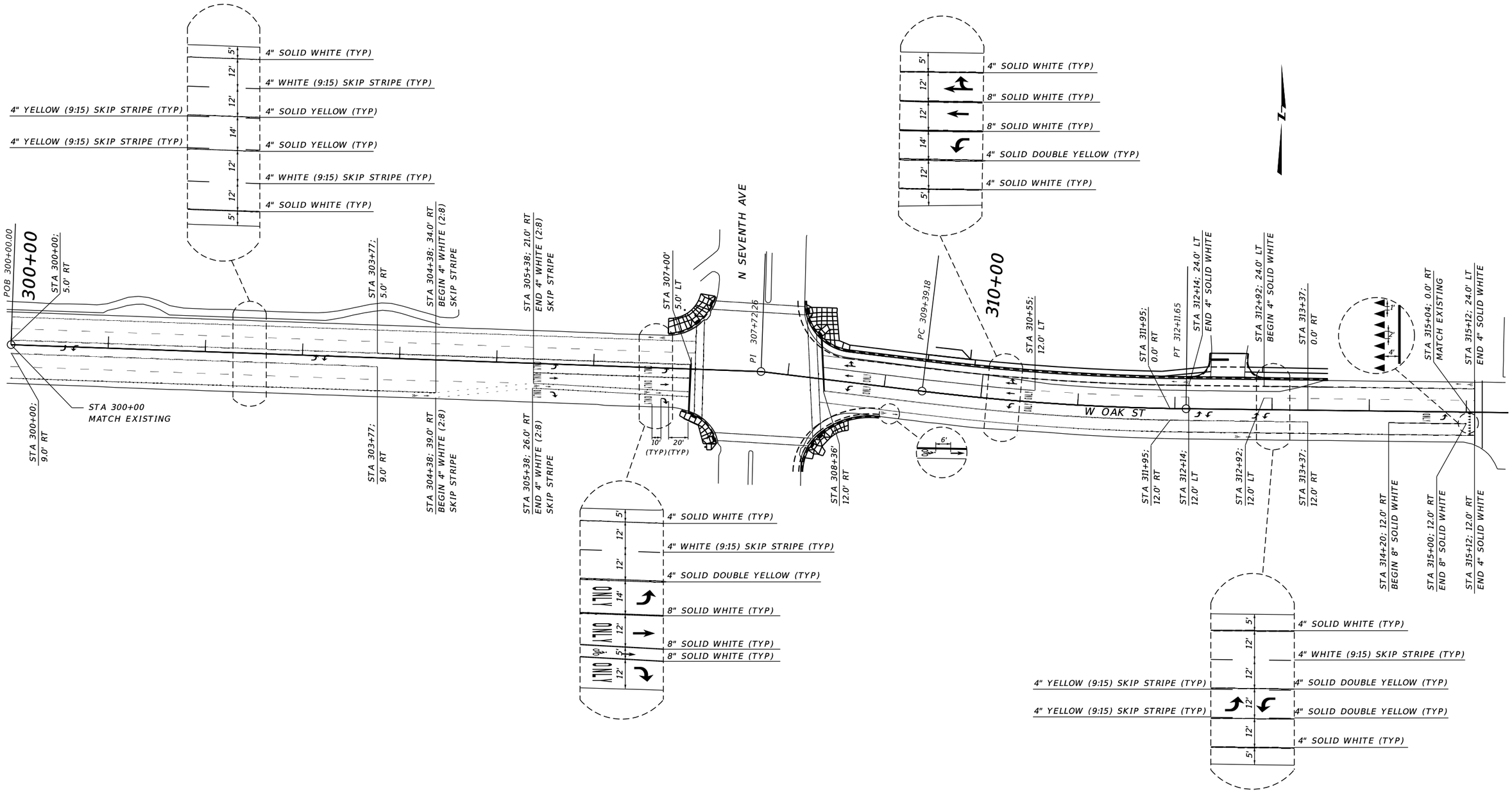
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Morrison Maierle



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2		5/13/2025				GALLATIN COUNTY	UPN 9313000	S9
		8:34:09 AM lforrey						

Morrison Maierle

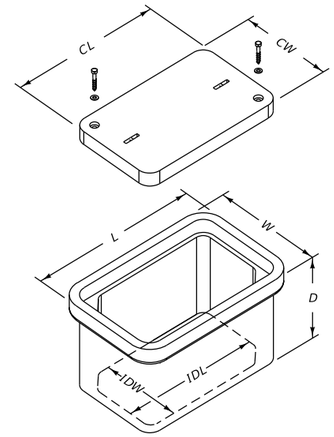


3 / 1	MONTANA Department of Transportation	...\9313000\SI\9313000SIPLM01.dgn 5/13/2025 8:34:28 AM lforrey	DESIGNED BY DRAWN BY CHECKED BY	LACEY R FORREY	09/2024	SIGNING PLANS GALLATIN COUNTY		N 7TH AVE INT IMPROV - BOZEMAN UPN 9313000	CMDP 118-1(5)0 S10

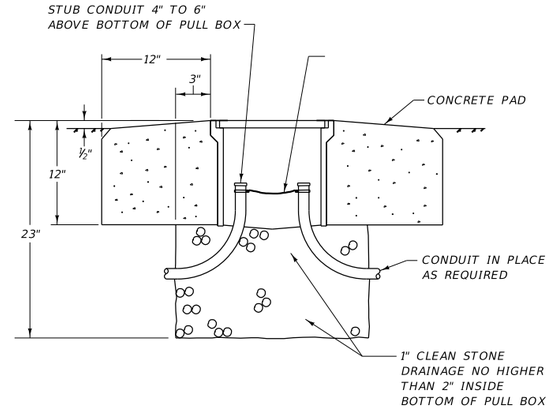
ELECTRICAL QUANTITY SUMMARY

ITEM NO.	MATERIAL	UNIT	TOTAL	#1 W 7TH AVE. W MINDERHALL ST.	#2 W 7TH AVE. W PEACH ST.	#3 W 7TH AVE. W TAMARACK ST.	#4 W 7TH AVE. W OAK ST.	#5 N 5TH AVE. W PEACH ST.
616 343 920	CONDUIT-PLASTIC 2 IN	LNFT	650	160	120	170	200	
616 343 924	CONDUIT-PLASTIC 2 1/2 IN	LNFT	65	-	20	-	45	
616 343 930	CONDUIT-PLASTIC 3 IN	LNFT	810	200	210	165	235	
616 783 007	PULL BOX-COMPSITE TYPE 2	EACH	11	2	3	3	3	
616 783 008	PULL BOX-COMPSITE TYPE 3	EACH	5	2	1	1	1	
617 000 000	FOUNDATION-CONCRETE	CUYD	16.5	3	5.5	2	6	
617 033 414	CABLE-COPPER 7AWG14-600V	LNFT	2810	500	800	710	800	
617 033 514	CABLE-COPPER 9AWG14-600V	LNFT	490	290		200		
617 033 614	CABLE-COPPER 12AWG14-600V	LNFT	440	-	240	-	200	
617 123 108	CONDUCTOR-COPPER AWG8-600V	LNFT	665	110	480	-	75	
617 123 110	CONDUCTOR-COPPER AWG10-600V	LNFT	745	215	200	170	160	
617 183 056	STANDARD-STL TYPE 10-A-500-6	EACH	2	2				
617 233 100	CONTROLLER-CAB PED-MODIFY	EACH	1	1	-	-	-	
617 303 300	HIGH EFFICACY LUMINAIRE LED	EACH	3	2	1	-	-	
617 503 130	SIG-TRAF 3 COL-1 WAY 12-12-12	EACH	1	-	1	-	-	
617 553 020	SIG-PEDESTRIAN TYPE 2	EACH	30	8	8	6	8	
* 617 605 040	INSTALL CONTLR/TRAF-ACTUATOR	EACH	1	1	-	-	-	
617 673 100	SIG STANDARD TYPE 1-100	EACH	20	5	6	3	6	
617 693 908	SIG STANDARD TYPE 2-A-900-8	EACH	1	-	-	-	1	
617 713 099	SIG STANDARD TYPE 3-A-900-9	EACH	1	-	1	-	-	
617 733 621	REMOVE AND RESET EXISTING POLE	EACH	2	-	1	-	1	
617 763 500	DETECTOR-RADAR/PRESENCE	EACH	14	3	4	3	4	
617 763 510	DETECTOR-RADAR/ADVANCE	EACH	8	2	2	2	2	
617 781 000	REMOVE AND SALVAGE MISC ELECTRICAL	LS	1	.25	.25	.25	.25	
617 783 030	REMOVE AND RESET MISC ELECTRICAL	LS	1		.5			.5
617 903 255	PUSH BUTTON-PEDESTRIAN-TACTILE	EACH	30	8	8	6	8	
617 903 600	BROADBAND RADIO	EACH	4	1	1	1	1	

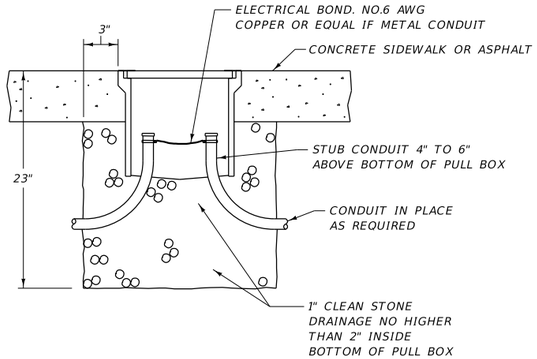
* - INDICATES STATE FURNISHED MATERIAL



PULL BOX - COMPOSITE MINIMUM DIMENSIONS		
TYPE 1	TYPE 2	TYPE 3
L = 20"	L = 25"	L = 32"
W = 13"	W = 15"	W = 19"
D = 12"	D = 12"	D = 12"
I D L = 17"	I D L = 21"	I D L = 28"
I D W = 10"	I D W = 11"	I D W = 15"
C L = 18"	C L = 23"	C L = 30"
C W = 11"	C W = 13"	C W = 17"



PULL BOX INSTALLED IN DIRT



PULL BOX INSTALLED IN A SIDEWALK OR ASPHALT

PULL BOX-COMPOSITE

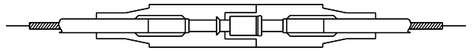
TYPE 1, 2 & 3

NO SCALE

PB2

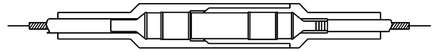
WATERTIGHT CONNECTORS

TYPES 1, 6, 11 & 16



NON-FUSED BREAKAWAY

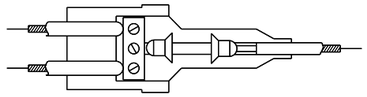
TYPES 2, 7, 12 & 17



FUSED BREAKAWAY

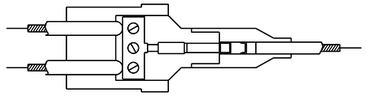
IDENTITY NO.	DESCRIPTIVE SYMBOL & WIRE SIZES
1	8 — 8
2	8 — 10
3	8, 8 — 10
4	8, 8 — 8
5	8, 8 — 8
6	6 — 6
7	6 — 10
8	6, 6 — 10
9	6, 6 — 6
10	6, 6 — 6
11	4 — 4
12	4 — 10
13	4, 4 — 10
14	4, 4 — 4
15	4, 4 — 4
16	10 — 10
17	10 — 10
18	10, 10 — 10
19	10, 10 — 10
20	10, 10 — 10
21	VARIES, VARIES — VARIES

TYPES 3, 8, 13 & 18



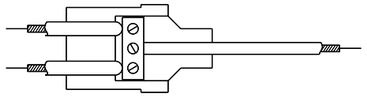
FUSED BREAKAWAY

TYPES 4, 9, 14 & 19



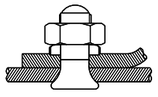
NON-FUSED BREAKAWAY

TYPES 5, 10, 15 & 20



NON-FUSED NON-BREAKAWAY

TYPE 21



COPPER SPLIT BOLT - MAKE WATERTIGHT USING SELF ADHERING MASTIC

PROVIDE A PLUG AND RECEPTACLE HOUSED IN WATER-RESISTANT, SYNTHETIC RUBBER CAPABLE OF BURIAL IN THE GROUND OR INSTALLATION IN SUNLIGHT. THE HOUSING, CONSISTING OF 2 SECTIONS, PROVIDES A WATERTIGHT SEAL AROUND THE CABLE AND A WATERTIGHT SEAL BETWEEN THE TWO SECTIONS AT THE POINT OF DISCONNECTION. SUPPLY EACH KIT WITH SUFFICIENT SILICONE COMPOUND TO LUBRICATE METAL PARTS AND THE RUBBER HOUSINGS FOR EASY ASSEMBLY.

WHERE INDICATED, CRIMP A COPPER PIN AND A COPPER RECEPTACLE TO THE CABLE. THE RECEPTACLE IS TO ESTABLISH CONTACT PRESSURE WITH THE PIN THROUGH THE USE OF A COPPER BERYLLIUM SPRING AND BE EQUIPPED WITH A DISPOSABLE MOUNTING PIN. THE PIN IS TO BE CONSTRUCTED OF AT LEAST HALF-HARD MATERIAL. THE CRIMPING PORTION IS TO BE FULLY ANNEALED WHILE THE REST OF THE PIN IS MAINTAINED IN ITS ORIGINAL STATE OF HARDNESS. THE RECEPTACLE IS TO BE FULLY ANNEALED. THE PIN AND RECEPTACLE ARE TO LOCK TOGETHER SO THE CONNECTION IS MAINTAINED WHEN A MINIMUM FORCE OF 20 POUNDS TENSION IS APPLIED TO THE ATTACHED CABLES.

PROVIDE FUSED CONNECTOR KITS CONTAINING A PAIR OF SPRING LOADED 90% CONDUCTIVITY CONTACTS FOR GRIPPING A STANDARD MIDGET FERRULE TYPE FUSE. THE CONTACTS MUST BE FULLY ANNEALED AND ADAPTED TO BE CRIMPED TO THE CABLE.

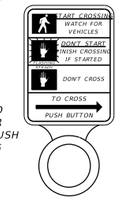
WATERTIGHT CONNECTORS

NO SCALE

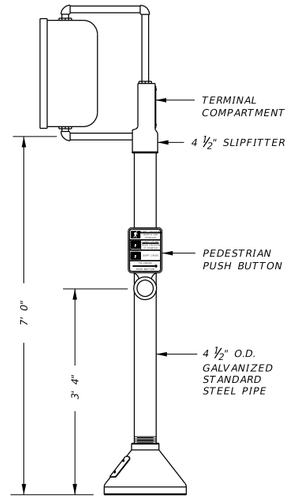
ARROW TO BE LEFT OR RIGHT, OR BOTH AS REQUIRED.

5" x 7¾" ALUMINUM SIGN, BLACK LETTERS ON WHITE BACKGROUND.

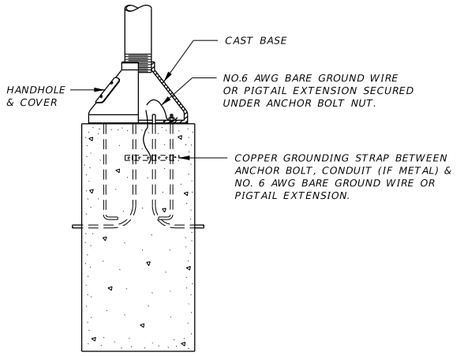
BACK OF CASTING SHAPED TO FIT CURVATURE OF POST. FOR MOUNTING ON PEDESTRIAN PUSH BUTTON POST, FORM CASTING TO FIT TOP OF POST.



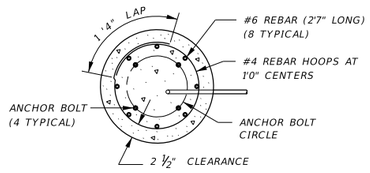
PEDESTRIAN PUSH BUTTON



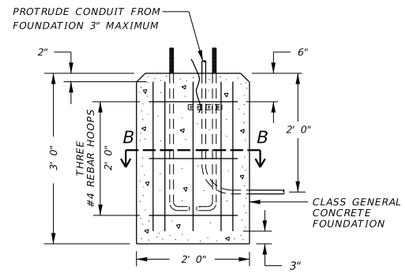
TYPE I-I00



USE GRADE 60 REINFORCING STEEL



SECTION B-B

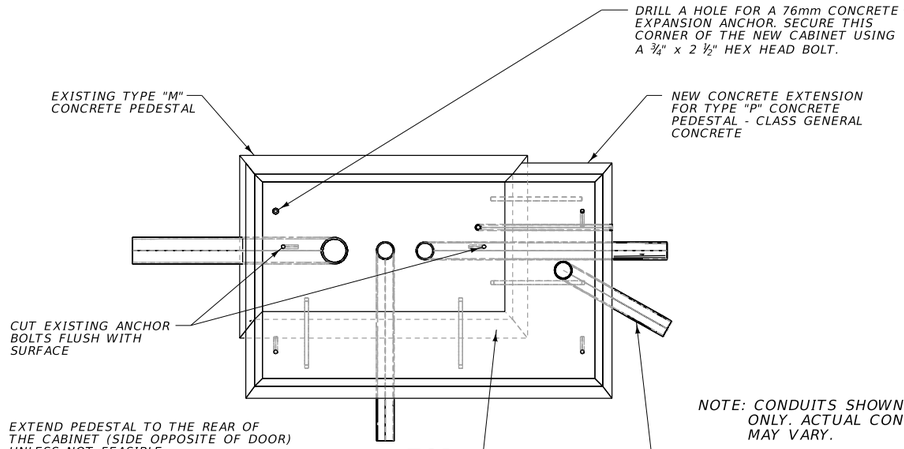


TYPE I-I20 & I-I00

TYPE I SIGNAL STANDARDS, FOUNDATION DETAILS & PEDESTRIAN PUSH BUTTONS

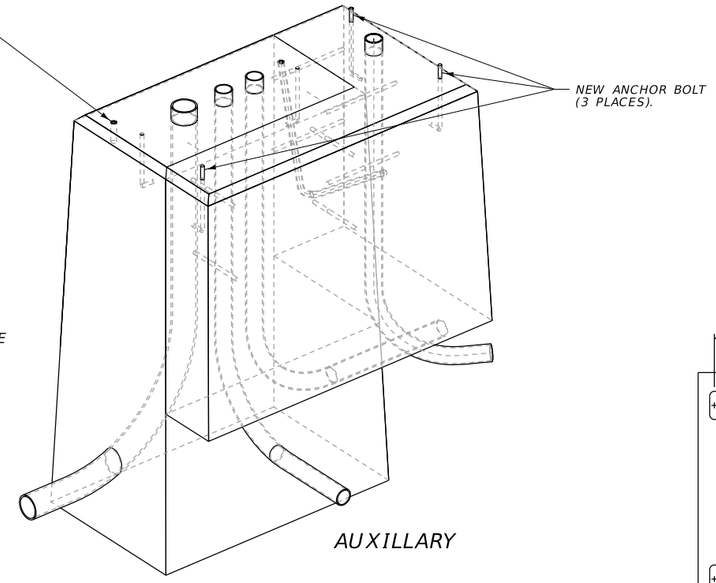
NO SCALE

AWARD COPY

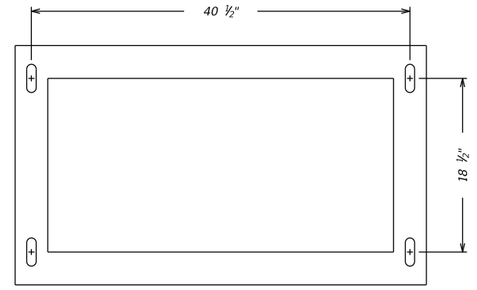


TOP

NOTE: CONDUITS SHOWN ARE FOR EXAMPLE ONLY. ACTUAL CONDUIT LOCATIONS MAY VARY.

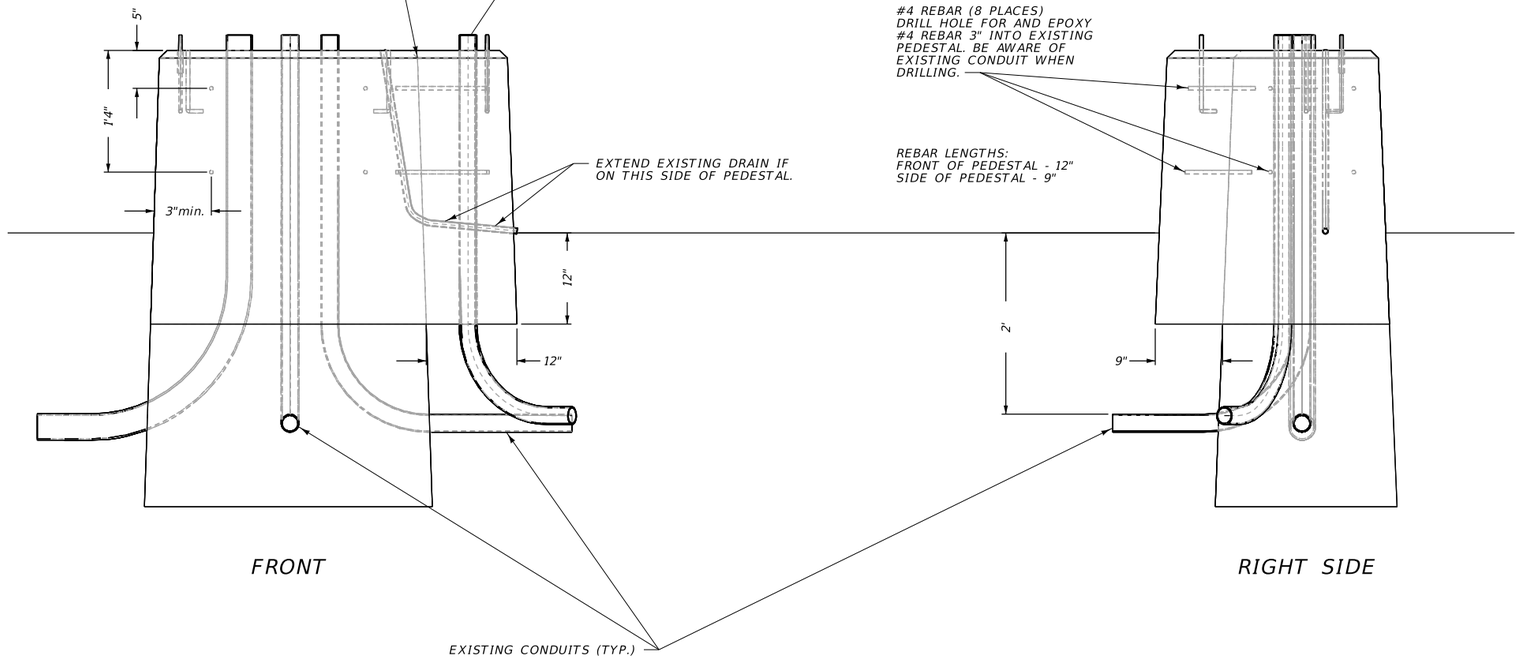


AUXILLARY



ANCHOR BOLT PATTERN FOR TYPE "P" CABINET

(VERIFY BEFORE PLACING ANCHOR BOLTS)



FRONT

RIGHT SIDE

TYPE "M" TO TYPE "P" CONTROLLER CABINET PEDESTAL CONVERSION

NO SCALE

MTOP

REVISED 22-FEB-2000

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000eldet001.dgn	DESIGNED BY	Dan Cunningham	6/2021	ELECTRICAL PLANS	PRELIMINARY	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
1		2/24/2025	REVIEWED BY	Joe DeGroat	11/2023	GALLATIN COUNTY		UPN 9313000 / E3
		6:55:22 AM CPS - U732	CHECKED BY					

AWARD COPY

TABLE 1	Ⓐ	POLE SHAFT Ⓑ	Ⓒ	Ⓓ	MIN. BASE DIA.	MIN. WALL THICK.	ANCHOR BOLTS	SIGNAL ARM Ⓔ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	FOUNDATION Ⓚ	Ⓛ	Ⓜ	Ⓝ
TYPE (A) LOWER SHAFT	15', 20', 25', 30', 35', 40'	19" SQ.	19"	2"	13½"	5/16"	1¼" x 48"	22" SQ.	23"	1½" - 6 UNC - 6" A325	2"	2"	12	12' 0"	11' 6"	3' 0"
TYPE (B) LOWER SHAFT	45', 50', 55', 60'	21" SQ.	21"	2"	15"	5/16"	2" x 48"	24" SQ.	25"	1½" - 6 UNC - 6" A325	2"	2"	12	12' 0"	11' 6"	4' 0"

TABLE 2	MOUNTING POINTS *1 SIGNAL	*2 EMERG. VEHICLE DETECTOR	*3 - *3C SIGN PANEL	*1A - *1C SIGNAL	*7 LUMINAIRE	*8 SIGNALS	*9 PED. SIGNAL	*10 CONTROLLER CAB.
DESIGN AREA	12.0 SQ.FT.	NIL	8.0 SQ.FT.	9.0 SQ.FT.	3.3 SQ.FT.	9.0 SQ.FT.	3.0 SQ.FT.	4.72 SQ.FT.
DESIGN WEIGHT	135 LB.	NIL	100 LB.	105 LB.	77LB.	210 LB.	80 LB.	200 LB.

TABLE 3	Ⓐ 15'	20' & 25'	30', 35', 40' & 45'	50', 55' & 60'
MTG.PTS.	*1, *2 & *3	*1, *1A, *2, *3, & *3A	*1, *1A, *1B, *2, *3, *3A, & *3B	*1, *1A, *1B, *1C, *2, *3, *3A, *3B, & *3C

NOTES

DESIGN STANDARDS IN ACCORDANCE WITH THE 2015 AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (AND ANY AMENDMENTS THERETO).

DESIGN PARAMETERS

DESIGN WIND VELOCITY 700 YEAR MRI BASIC WIND SPEED

FATIGUE CATEGORY 2

HEIGHT AND EXPOSURE FACTOR Kz
z = 16 FEET
α = 9.5
zg = TAKEN AS 900 FEET FOR EXPOSURE C

DIRECTIONAL FACTOR Kd = 0.95, GUST FACTOR = 1.14 DRAG COEFFICIENTS LFRD TABLE 3.8.7-1

NO ICE LOADS OR GALLOPING

DESIGN AREA = AREA WITH MAXIMUM WIND LOAD (WIND IS PERPENDICULAR TO STANDARD, AS SHOWN).

DESIGN WEIGHT = DEAD LOAD.

DESIGN ALL TYPE (A) LOWER SHAFTS FOR Ⓐ = 40' AND A MOUNTING HEIGHT OF 45'.

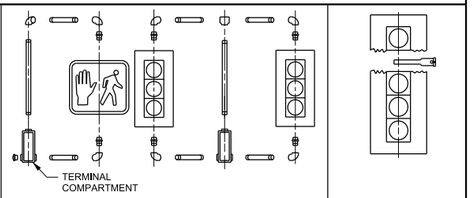
DESIGN ALL TYPE (B) LOWER SHAFTS FOR Ⓐ = 60' AND A MOUNTING HEIGHT OF 45'.

PROVIDE ANCHOR BOLTS CONFORMING TO ASTM F1554 OR EQUAL. GALVANIZE AND THREAD THE TOP END (12" MIN.).

CALL OUT WELDING PROCEDURES, SYMBOLS, BASE METAL SPECIFICATIONS AND GRADES PRIOR TO FABRICATION OR APPROVAL.

GALVANIZE POLE SHAFTS, ARMS, AND ACCESSORIES PER ASTM A123. GALVANIZE HARDWARE PER ASTM F2329.

TYPICAL SIGNAL MOUNTINGS

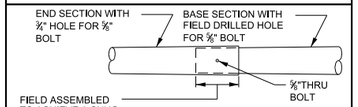


STANDARD MAST ARM MOUNTING

USE PIPE BRACKETS TO MOUNT TRAFFIC AND PEDESTRIAN SIGNALS TO THE POLE SHAFT UNLESS OTHERWISE SHOWN ON THE PLANS.

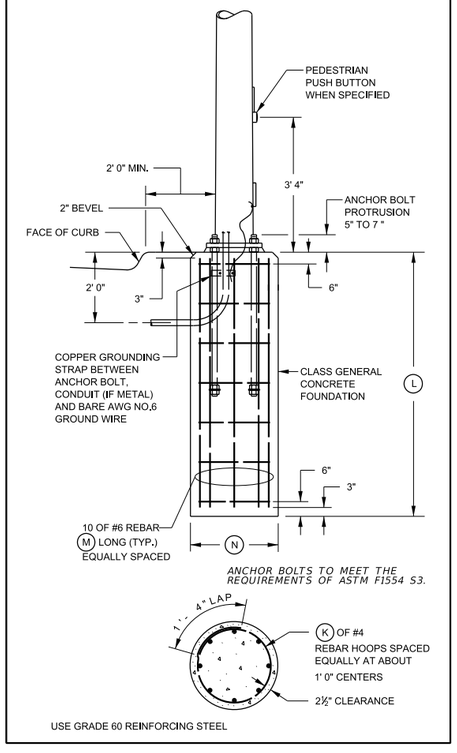
ELEVATOR PLUMBIZER MAST ARM MOUNTING

SIGNAL ARM SLIP JOINT



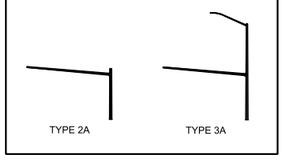
SPAN	BASE SECTION LENGTH	END SECTION LENGTH
55'	12.60'	45.00'
60'	12.60'	50.00'

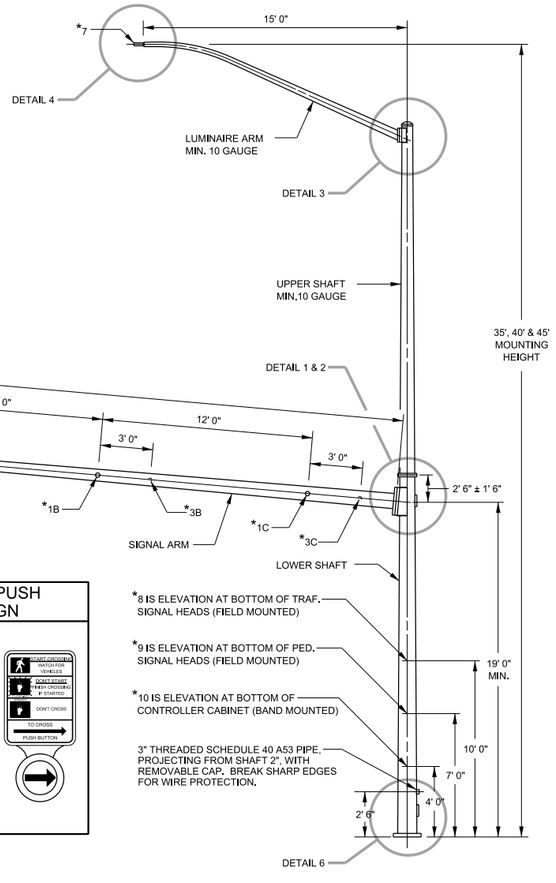
TYPICAL FOUNDATION

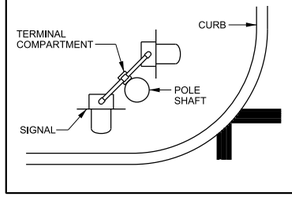


USE GRADE 60 REINFORCING STEEL

SIGNAL STANDARD TYPE



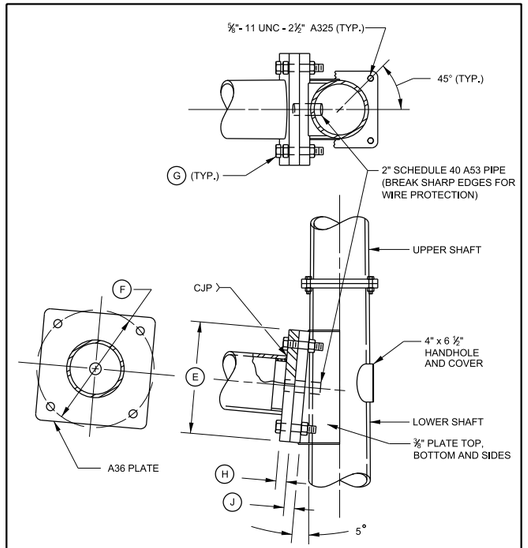


TYPICAL ORIENTATION FOR PIPE BRACKET MOUNTED SIGNALS	PEDESTRIAN PUSH BUTTON SIGN
	

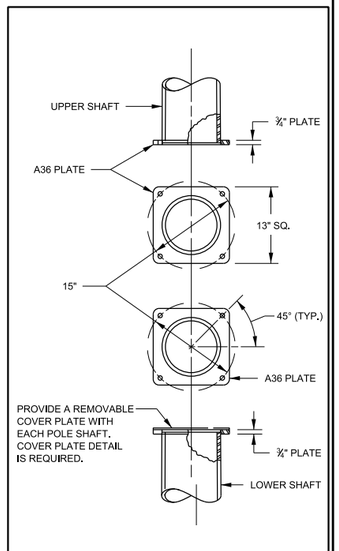
ARROW TO BE LEFT OR RIGHT, OR BOTH AS REQUIRED.

5" x 7 ¾" ALUMINUM SIGN, BLACK LETTERS ON WHITE BACKGROUND.

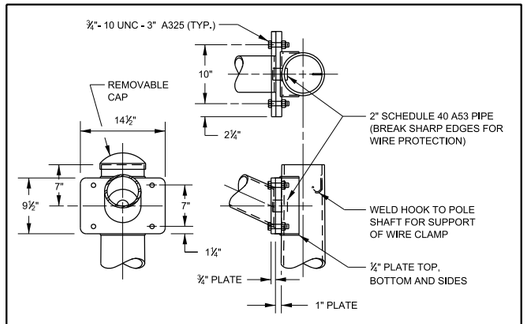
BACK OF CASTING SHAPED TO FIT CURVATURE OF POLE.



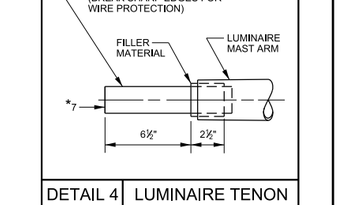
DETAIL 1 | SIGNAL ARM CONNECTION



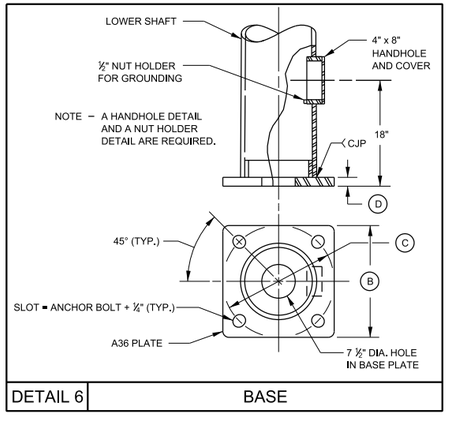
DETAIL 2 | SHAFT TO SHAFT



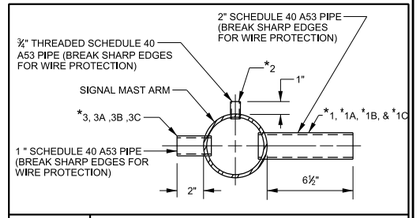
DETAIL 3 | LUMINAIRE ARM CONNECTION



DETAIL 4 | LUMINAIRE TENON



DETAIL 6 | BASE



DETAIL 5 | ARM TENONS

2015 LRFD
TYPE 2A & 3A SIGNAL STANDARDS, FOUNDATION DETAILS, AND TYPICAL SIGNAL MOUNTINGS

NO SCALE

REVISED 15-JAN-2015

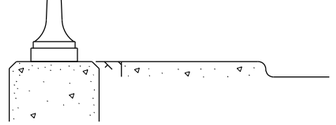
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000eldet002.dgn	DESIGNED BY	Dan Cunningham	6/2021	ELECTRICAL PLANS	PRELIMINARY	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		2/24/2025	REVIEWED BY	Joe DeGroat	11/2023	GALLATIN COUNTY		UPN 9313000 / E4
		6:55:33 AM CPS - U732	CHECKED BY					



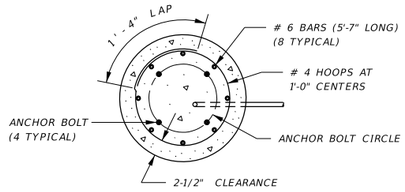
250 WATT
DECORATIVE LUMINAIRE ASSEMBLY

DECORATIVE LIGHT STANDARD

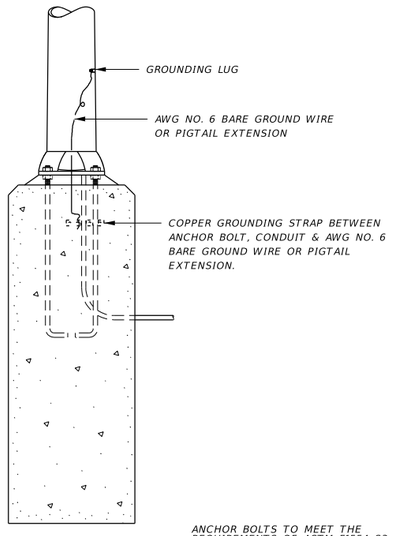
FOR REFERENCE
RESET EXISTING DECORATIVE LUMINAIRE
N 7TH AVE. AND W OAK ST.



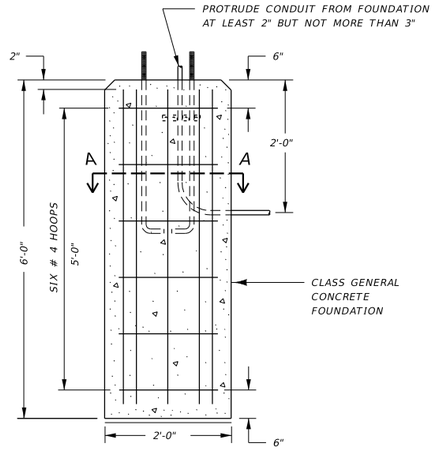
USE GRADE 60 REINFORCING STEEL



SECTION A-A

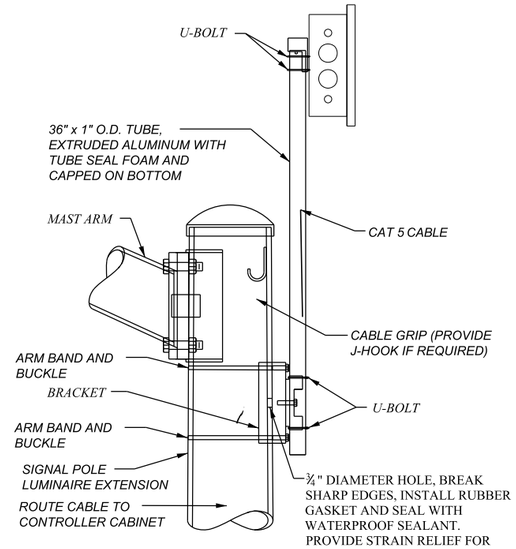


ANCHOR BOLTS TO MEET THE
REQUIREMENTS OF ASTM F1554 S3.



TYPICAL LUMINAIRE FOUNDATION

FLAT PANEL BROADBAND RADIO



¾" DIAMETER HOLE, BREAK SHARP EDGES, INSTALL RUBBER GASKET AND SEAL WITH WATERPROOF SEALANT. PROVIDE STRAIN RELIEF FOR THE CABLE USING A STAINLESS STEEL WIRE MESH GRIP.

INTERCONNECT ANTENNA MOUNTING
TYPE 3-A SIGNAL POLE

BROADBAND RADIO MOUNTING

NO SCALE

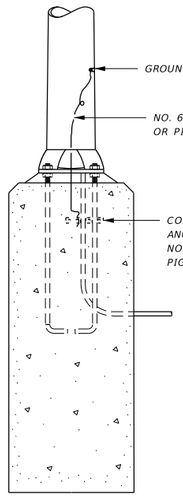
RAD
REVISED 12-SEPT-2024

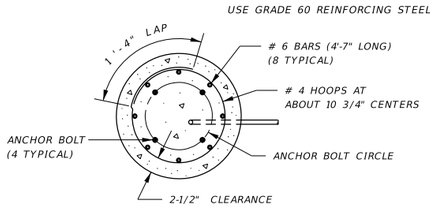
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000eldet002.dgn	DESIGNED BY	Dan Cunningham	6/2021	ELECTRICAL PLANS	PRELIMINARY
		2/24/2025	REVIEWED BY	Joe DeGroat	11/2023		
		6:55:37 AM CPS - U732B	CHECKED BY			GALLATIN COUNTY	

N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
UPN 9313000	E5

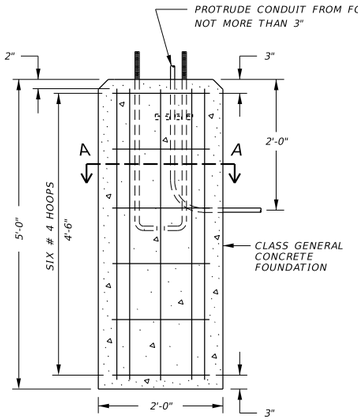
WELDING INSPECTION REQUIREMENTS:
25% OF ALL PARTIAL PENETRATION GROOVE AND FILLET WELDS PER PIECE REQUIRES MAGNETIC-PARTICLE TESTING PER AWS D1.1.

100% OF ALL FULL PENETRATION GROOVE WELDS, INCLUDING BASE CONNECTION WELD REQUIRE MAGNETIC-PARTICLE TESTING PER AWS D1.1.





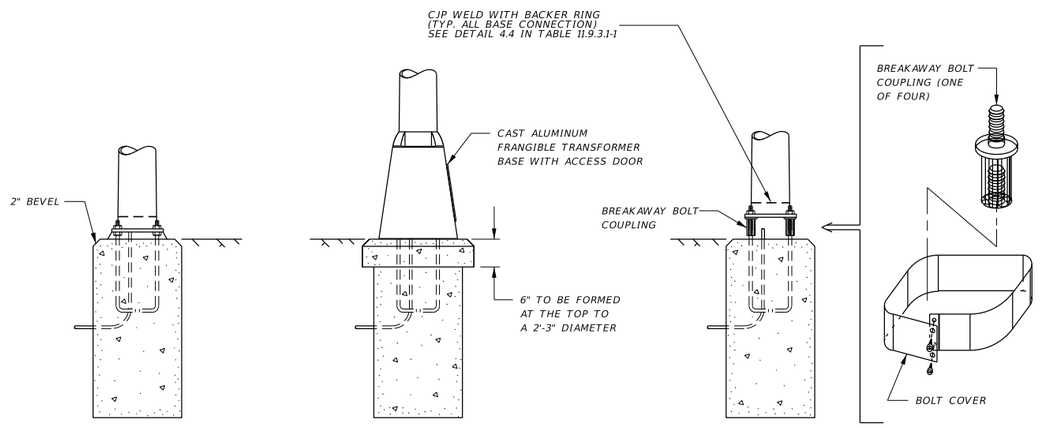
SECTION A-A



FACTORY INSTALLED CANISTER VIBRATION DAMPER TO BE INSTALLED INSIDE THE POLE TWO THIRDS POLE HEIGHT FROM THE BASE. PROVIDE MANUFACTURER'S PRODUCT DATA SHEET FOR MDT APPROVAL.

BASE PLATE REQUIREMENTS:
BASE PLATES TO BE 1" THICK AND MEET THE REQUIREMENTS OF AASHTO M270 GRADE 50. HOLES TO ACCEPT 1" DIA. ANCHOR BOLTS WITH A BOLT CIRCLE OF 13 1/2" FOR STANDARDS WITH 15 FT. ARMS AND A MOUNTING HEIGHT OF 40 FT. USE A BOLT CIRCLE OF 15" FOR STANDARDS WITH ARMS UP TO 25 FT. IN LENGTH AND MOUNTING HEIGHTS OF UP TO 45 FT.

TYPICAL OF ALL FOUNDATIONS



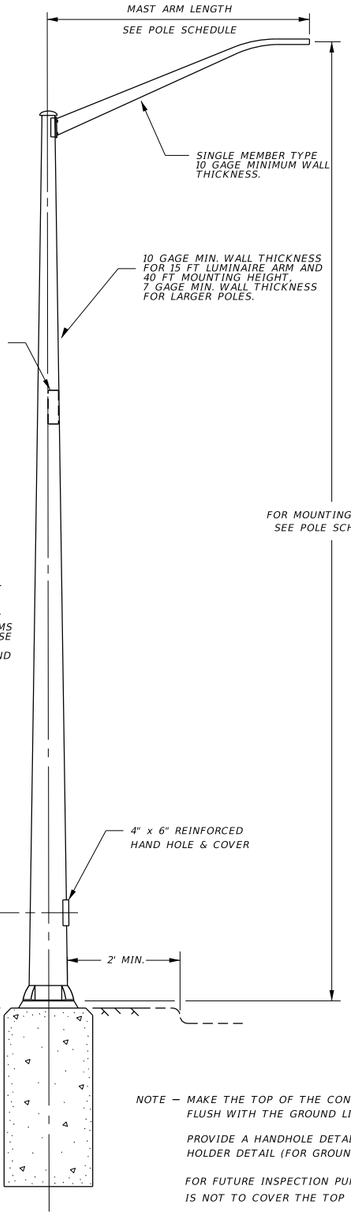
ANCHOR
(DOUBLE NUT CONNECTION REQUIRED)

TRANSFORMER
(BREAKAWAY TYPE)

BOLT COUPLING
(BREAKAWAY TYPE)

BASE TYPES FOR LUMINAIRE STANDARDS

NOTE – INSTALL AND PRETENSION ABCHOR BOLTS PER THE STANDARD SPECIFICATIONS ANCHOR BOLTS TO MEET THE REQUIREMENTS OF ASTM F1554 S3. ANCHORS TO BE STAMPED PER ASTM F1554 S3.



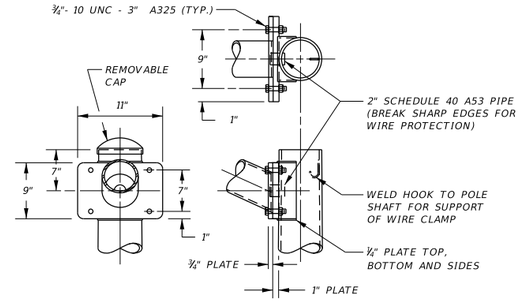
NOTE – MAKE THE TOP OF THE CONCRETE FOUNDATION FLUSH WITH THE GROUND LINE.

PROVIDE A HANDHOLE DETAIL AND A ½" NUT HOLDER DETAIL (FOR GROUNDING) .

FOR FUTURE INSPECTION PURPOSES, FILL MATERIAL IS NOT TO COVER THE TOP OF THE FOUNDATIONS

TYPE 10-A POLE

LUMINAIRE ARM CONNECTION REQUIRES 4 BOLT DESIGN WITH A325 BOLTS, NUTS AND WASHERS (FULLY TENSIONED) TUBE TO PLATE CONNECTION TO BE SOCKET TYPE CONNECTION WITH TWO FILLET WELDS PER 14.4.4.6 OF THE SPECIFICATIONS.



NOTE – FOR ARMS BETWEEN 16 FT. AND 25 FT. IN LENGTH, USE AN 11" SQUARE PLATE WITH A BOLT SPACING OF 9 IN. VERTICAL AND 9" HORIZONTAL

DESIGN, FABRICATE, ERECT, AND INSPECT STANDARDS IN ACCORDANCE WITH THE CURRENT EDITION AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (AND ANY AMENDMENTS THERETO).

DESIGN PARAMETERS:

DESIGN WEIGHT = DEAD LOAD, ICE.

DESIGN AREA = AREA WITH MAXIMUM WIND LOAD (WIND IS PERPENDICULAR TO STANDARD, AS SHOWN).

DIRECTIONAL FACTOR Kd = 0.95, GUST FACTOR = 1.14 DRAG COEFFICIENTS LFRD TABLE 3.8.7-1

HEIGHT AND EXPOSURE FACTOR Kz
zg = TAKEN AS 900 FEET FOR EXPOSURE C
α= 9.5
z = 16 FEET

DESIGN WIND VELOCITY 700 YEAR MRI BASIC WIND SPEED (115 MPH)

TYPE 10-A LUMINAIRE STANDARDS, POLE BASES & FOUNDATION DETAILS

NO SCALE

LS

REVISED 18-NOV-2022

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000eldet002.dgn	DESIGNED BY	Dan Cunningham	6/2021	ELECTRICAL PLANS	PRELIMINARY	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
1		2/24/2025	REVIEWED BY	Joe DeGroat	11/2023				
		6:55:41 AM CPS – U732S	CHECKED BY			GALLATIN COUNTY		UPN 9313000	E6

AWARD COPY

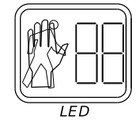
POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON LEFT ARROW	PEDESTRIAN PUSH BUTTON RIGHT ARROW	SIGNAL MAST ARM	LUMINAIRE MAST ARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
1	617 673 100	1-100	BREAKAWAY	2' X 3'	1						525,452.45	1,573,394.35
2	617 183 056	10-A-500-6	ANCHOR	2' X 5'		1		15	40	LED	525,461.55	1,573,403.60
3	617 673 100	1-100	BREAKAWAY	2' X 3'	1						525,464.12	1,573,478.56
4	617 673 100	1-100	BREAKAWAY	2' X 3'		1					525,452.49	1,573,487.67
5	617 673 100	1-100	BREAKAWAY	2' X 3'	1						525,398.31	1,573,484.10
6	617 183 056	10-A-500-6	ANCHOR	2' X 5'		1		15	40	LED	525,390.77	1,573,470.85
7	617 673 100	1-100	BREAKAWAY	2' X 3'	1						525,393.69	1,573,400.63
8	EXISTING	EXISTING	EXISTING	EXISTING		1	EXISTING				EXISTING	EXISTING

REMOVE SIGNAL CONDUCTORS, PULL BOXES AND CONDUIT ELBOWS. REMOVE AND SALVAGE TYPE 1-120 SIGNAL STANDARD AND FOUNDATION. REMOVE PEDESTRIAN PUSH BUTTONS AND DISPLAYS.

WHERE NEW CONDUIT IS ROUTED TO EXISTING SIGNAL STANADARDS, INTERCEPT EXISTING CONDUIT AT FOUNDATIONS AND CONNECT TO NEW CONDUIT.

SIGNAL INDICATIONS



LED
WITH COUNTDOWN
8 REQUIRED

CONDUIT AND WIRE SCHEDULE

A
- NEW 1 OF 2" PLASTIC CONDUIT
- NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

B
- NEW 1 OF 2" PLASTIC CONDUIT
- NEW 1 OF RADAR DETECTION CABLE
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

C
- NEW 1 OF 3" PLASTIC CONDUIT
- NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE(PED)
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
- NEW 1 OF RADAR DETECTION CABLE
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

D
- NEW 1 OF 2" PLASTIC CONDUIT
- NEW 3 OF RADAR DETECTION CABLE
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
- NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
- NEW 2 OF EMERGENCY VEHICLE PREEMPTION CABLE
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

E
- NEW 1 OF 3" PLASTIC CONDUIT
- NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
- NEW 2 OF AWG NO. 8 CONDUCTOR (ILLUMINATION)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

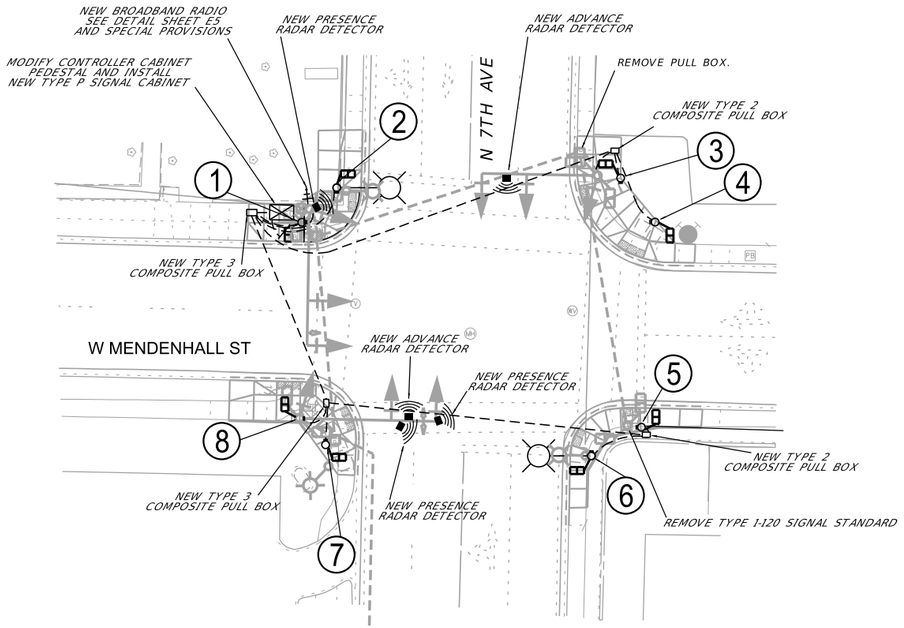
F
- NEW 2 OF 3" PLASTIC CONDUIT
- NEW 3 OF RADAR DETECTION CABLE
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
- NEW 4 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
- NEW 2 OF EMERGENCY VEHICLE PREEMPTION CABLE
- NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

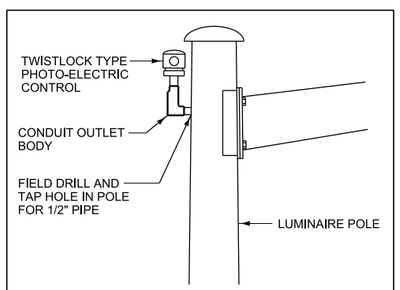
G
- NEW 1 OF 2" PLASTIC CONDUIT
- NEW 1 OF RADAR DETECTION CABLE
- NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
- NEW 1 OF EMERGENCY VEHICLE PREEMPTION CABLE
- NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
- NEW 3 OF AWG NO. 6 CONDUCTOR (SIGNAL)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)
- NEW 1 OF CAT5 CABLE (BROADBAND RADIO)

H
- NEW 2 OF 3" PLASTIC CONDUIT
- NEW 5 OF RADAR DETECTION CABLE
- NEW 3 OF 9 AWG NO. 14 SIGNAL CABLE
- NEW 8 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
- NEW 3 OF EMERGENCY VEHICLE PREEMPTION CABLE
- NEW 3 OF AWG NO. 6 CONDUCTOR (SIGNAL)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)
- NEW 1 OF CAT5 CABLE (BROADBAND RADIO)

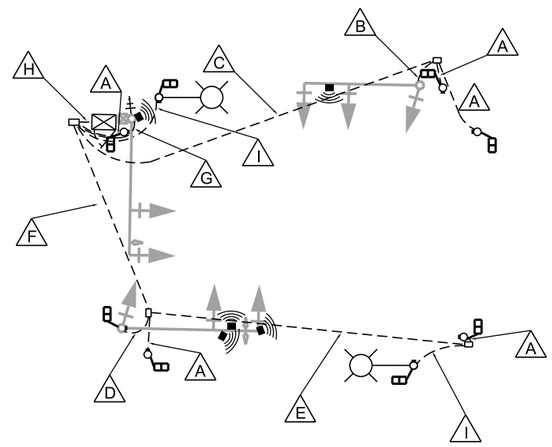
I
- NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
- NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
- NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)







INSTALLATION DETAIL FOR PHOTO-ELECTRIC CONTROL



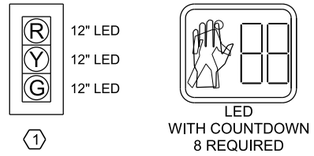
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000elpln001.dgn	DESIGNED BY	Dan Cunningham	6/2021	ELECTRICAL PLANS	PRELIMINARY	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		2/24/2025	REVIEWED BY	Joe DeGroat	11/2023	GALLATIN COUNTY		UPN 9313000 / E7
		6:55:54 AM CPS - U732S	CHECKED BY					

AWARD COPY

POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON LEFT ARROW	PEDESTRIAN PUSH BUTTON RIGHT ARROW	SIGNAL MAST ARM	LUMINAIRE MAST ARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
1	EXISTING	EXISTING	EXISTING	EXISTING	1		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
2	617 673 100	1-100	BREAKAWAY	2' X 3'		1					527,357.55	1,573,419.92
3	617 713 099	3-A-900-9	ANCHOR	4' x 12'			55'	15'	40'	LED	527,359.61	1,573,531.53
4	617 673 100	1-100	BREAKAWAY	2' X 3'		1					527,355.80	1,573,528.14
5	617 673 100	1-100	BREAKAWAY	2' X 3'		1					527,347.20	1,573,539.72
6	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE
7	EXISTING	EXISTING	EXISTING	EXISTING	1						EXISTING	EXISTING
8	617 673 100	1-100	BREAKAWAY	2' X 3'		1					527,273.83	1,573,521.15
9	EXISTING	EXISTING	EXISTING	EXISTING			EXISTING				EXISTING	EXISTING
10	617 673 100	1-100	BREAKAWAY	2' X 3'		1					527,279.00	1,573,420.56
11	617 673 100	1-100	BREAKAWAY	2' X 3'	1						527,287.65	1,573,404.20

SIGNAL INDICATIONS



CONDUIT AND WIRE SCHEDULE

A
NEW 2 OF 3" PLASTIC CONDUIT
NEW 7 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
NEW 1 OF 12 AWG NO. 14 SIGNAL CABLE
NEW 6 OF RADAR DETECTION CABLE
NEW 2 OF AWG NO. 10 CONDUCTOR (GROUND))
NEW 1 OF CAT5 CABLE (BROADBAND RADIO)

B
NEW 1 OF 2" PLASTIC CONDUIT
NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

C
NEW 1 OF 3" PLASTIC CONDUIT
NEW 4 OF 7 AWG NO. 14 SIGNAL CABLE(PED)
NEW 1 OF 12 AWG NO. 14 SIGNAL CABLE
NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
NEW 3 OF RADAR DETECTION CABLE
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

D
NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
NEW 1 OF RADAR DETECTION CABLE

E
NEW 1 OF 3" PLASTIC CONDUIT
NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
NEW 1 OF 12 AWG NO. 14 SIGNAL CABLE
NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
NEW 1 OF RADAR DETECTION CABLE
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

H
NEW 1 OF RADAR DETECTION CABLE

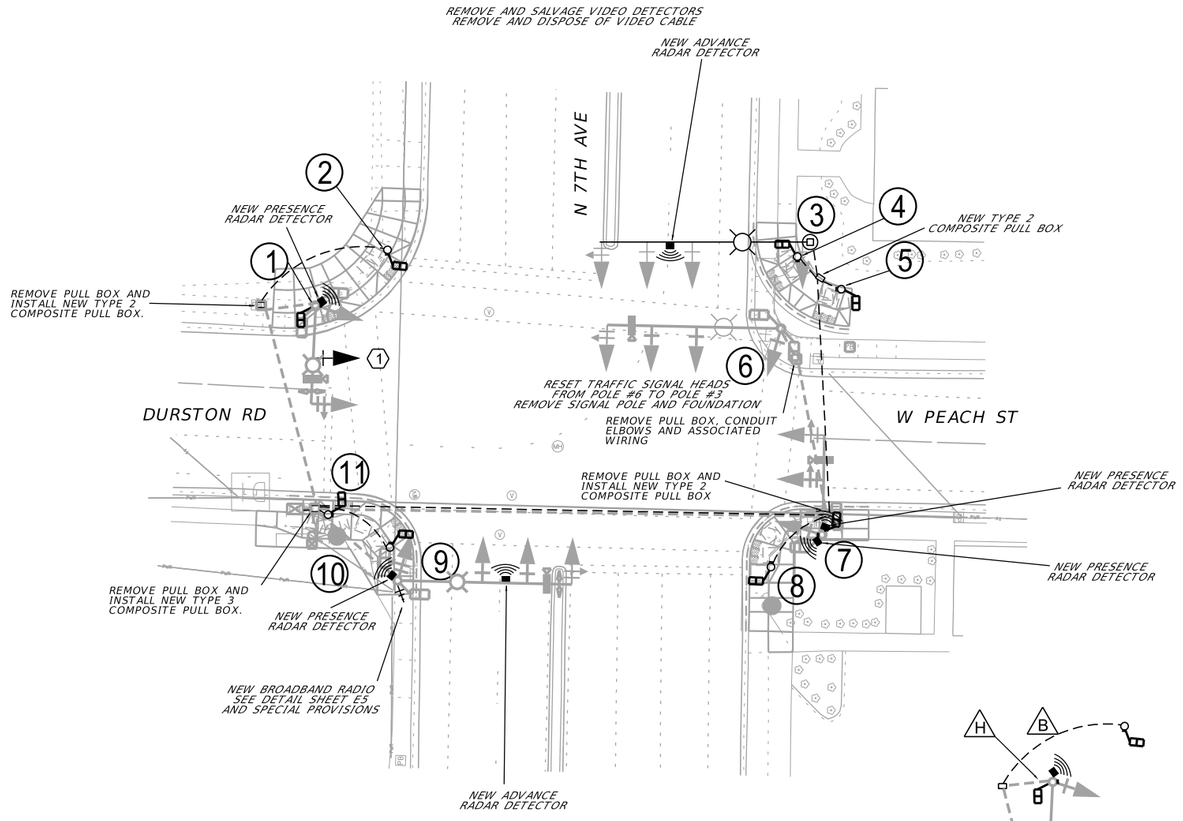
J
NEW 1 OF 2 1/2" PLASTIC CONDUIT
NEW 1 OF 12 AWG NO. 14 SIGNAL CABLE
NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
NEW 1 OF RADAR DETECTION CABLE
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

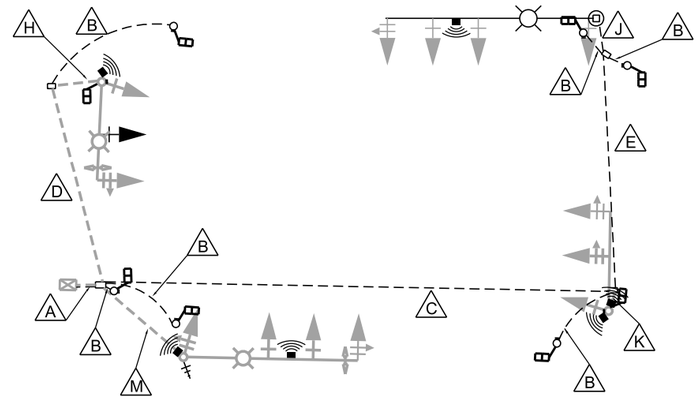
K
NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
NEW 2 OF RADAR DETECTION CABLE

M
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF CAT5 CABLE (BROADBAND RADIO)

USE EXISTING CONDUIT AND CONDUCTORS IF NOT NOTED IN PLAN SHEET







3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000elpln001.dgn 2/24/2025 6:55:58 AM CPS - U7325	DESIGNED BY REVIEWED BY CHECKED BY	Dan Cunningham Joe DeGroat	6/2021 11/2023	ELECTRICAL PLANS GALLATIN COUNTY	PRELIMINARY

N 7TH AVE INT IMPROV - BOZEMAN		CMDP 118-1(5)0
	UPN 9313000	E8

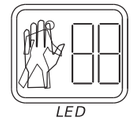
AWARD COPY

POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON ← LEFT ARROW	PEDESTRIAN PUSH BUTTON → RIGHT ARROW	SIGNAL MAST ARM	LUMINAIRE MAST ARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
1	EXISTING	EXISTING	EXISTING	EXISTING	1		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
2	EXISTING	EXISTING	EXISTING	EXISTING		1	EXISTING				EXISTING	EXISTING
3	EXISTING	EXISTING	EXISTING	EXISTING	1		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
4	617 673 100	1-100	BREAKAWAY	2' X 3'		1					528,447.39	1,573,557.97
5	617 673 100	1-100	BREAKAWAY	2' X 3'	1						528,386.94	1,573,560.29
6	617 673 100	1-100	BREAKAWAY	2' X 3'		1					528,371.18	1,573,547.87

WHERE NEW CONDUIT IS ROUTED TO EXISTING SIGNAL STANDARDS, INTERCEPT EXISTING CONDUIT AT FOUNDATIONS AND CONNECT TO NEW CONDUIT.

SIGNAL INDICATIONS



LED
WITH COUNTDOWN
6 REQUIRED

CONDUIT AND WIRE SCHEDULE

A
NEW 4 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
NEW 5 OF RADAR DETECTION CABLE
NEW 1 OF CAT5 CABLE (BROADBAND RADIO)

B
NEW 1 OF 2" PLASTIC CONDUIT
NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))

C
NEW 1 OF 3" PLASTIC CONDUIT
NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
NEW 3 OF RADAR DETECTION CABLE
NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)

D
NEW 1 OF 3" PLASTIC CONDUIT
NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
NEW 3 OF RADAR DETECTION CABLE
NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)

E
NEW 1 OF 2" PLASTIC CONDUIT
NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
NEW 2 OF RADAR DETECTION CABLE

H
NEW 1 OF 2" PLASTIC CONDUIT
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)
NEW 1 OF CAT5 CABLE (BROADBAND RADIO)

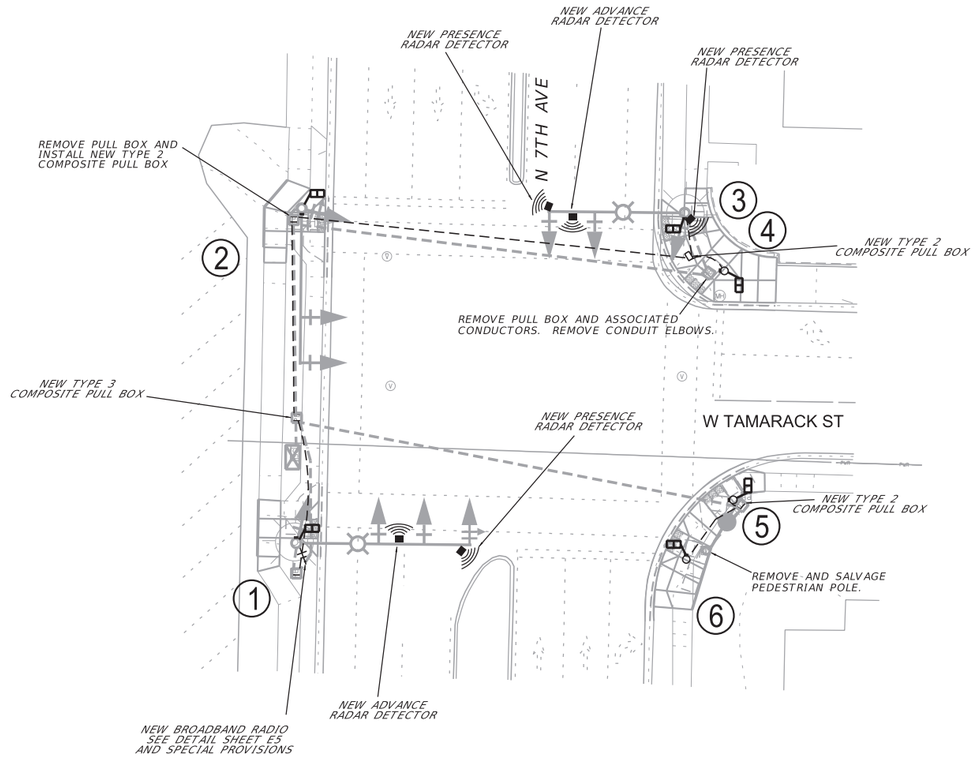
J
NEW 1 OF 2" PLASTIC CONDUIT
NEW 3 OF RADAR DETECTION CABLE
NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
NEW 1 OF 9 AWG NO. 14 SIGNAL CABLE
NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND)

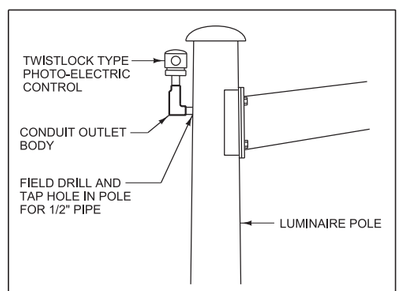
K
NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PED)

L
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF CAT5 CABLE (BROADBAND RADIO)

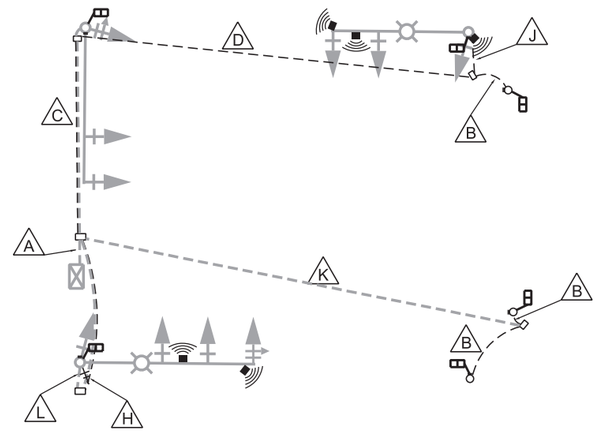
USE EXISTING CONDUIT AND CONDUCTORS IF NOT NOTED IN PLAN SHEET







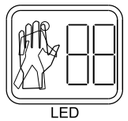
INSTALLATION DETAIL FOR PHOTO-ELECTRIC CONTROL



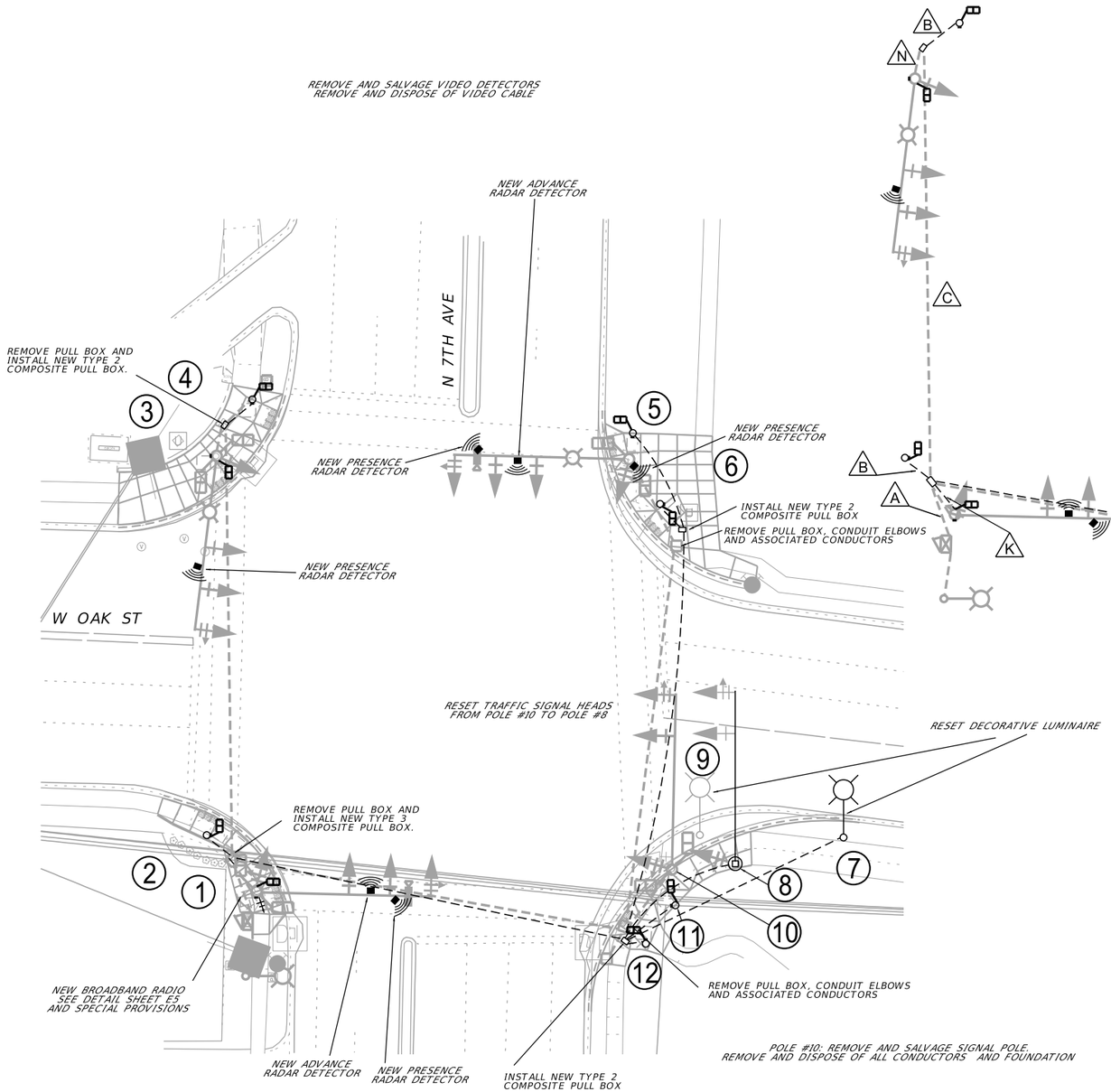
2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000elpln001.dgn	DESIGNED BY	Dan Cunningham	6/2021	ELECTRICAL PLANS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
1		2/24/2025	REVIEWED BY	Joe DeGroat	11/2023	GALLATIN COUNTY	UPN 9313000	E9
		6:56:01 AM CPS - U732	CHECKED BY			PRELIMINARY		

AWARD COPY

SIGNAL INDICATIONS



LED
WITH COUNTDOWN
8 REQUIRED



POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	PEDESTRIAN PUSH BUTTON LEFT ARROW	PEDESTRIAN PUSH BUTTON RIGHT ARROW	SIGNAL MASTARM	LUMINAIRE MASTARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
1	EXISTING	EXISTING	EXISTING	EXISTING		1	EXISTING				EXISTING	EXISTING
2	617 673 100	1-100	BREAKAWAY	2' X 3'		1					529,972.11	1,573,460.69
3	EXISTING	EXISTING	EXISTING	EXISTING		1	EXISTING				EXISTING	EXISTING
4	617 673 100	1-100	BREAKAWAY	2' X 3'		1					530,099.46	1,573,474.02
6	617 673 100	1-100	BREAKAWAY	2' X 3'	1						530,089.62	1,573,585.27
6	617 673 100	1-100	BREAKAWAY	2' X 3'	1						530,068.88	1,573,593.24
7	RESET	RESET	RESET	2' X 6'				RESET	RESET	RESET	529,971.41	1,573,646.86
8	617 693 908	2-A-900-8	ANCHOR	4' X 12'			50'				529,963.73	1,573,615.21
9	REMOVE	REMOVE	REMOVE	REMOVE				REMOVE	REMOVE	REMOVE	REMOVE	REMOVE
10	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE	REMOVE				REMOVE	REMOVE
11	617 673 100	1-100	BREAKAWAY	2' X 3'	1						529,951.57	1,573,597.72
12	617 673 100	1-100	BREAKAWAY	2' X 3'		1					529,940.36	1,573,589.09

POLE #9 IS TO BE REMOVED AND RESET AT POLE #7 LOCATION

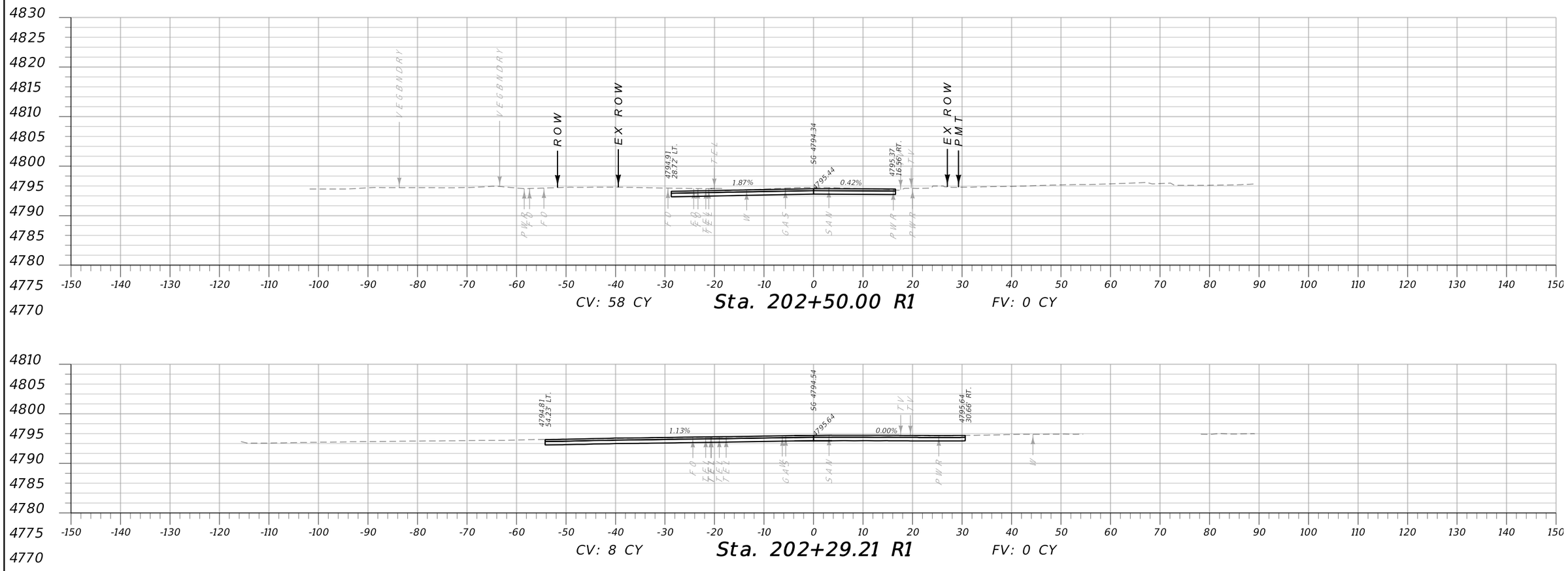
CONDUIT AND WIRE SCHEDULE

- A: NEW 8 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
  NEW 1 OF 12 AWG NO. 14 SIGNAL CABLE
  NEW 6 OF RADAR DETECTION CABLE
  NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- B: NEW 1 OF 2" PLASTIC CONDUIT
  NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE (PED)
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- C: NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE(PED)
  NEW 1 OF RADAR DETECTION CABLE
- D: NEW 1 OF 3" PLASTIC CONDUIT
  NEW 4 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
  NEW 3 OF RADAR DETECTION CABLE
  NEW 1 OF 12 AWG NO. 14 SIGNAL CABLE
  NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- E: NEW 1 OF 3" PLASTIC CONDUIT
  NEW 2 OF 7 AWG NO. 14 SIGNAL CABLE (PEDS)
  NEW 3 OF RADAR DETECTION CABLE
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- H: NEW 2" PLASTIC CONDUIT
  NEW 3 OF RADAR DETECTION CABLE
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- J: NEW 1 OF 2 1/2" PLASTIC CONDUIT
  NEW 1 OF 12 AWG NO. 14 SIGNAL CABLE
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- K: NEW 1 OF 2" PLASTIC CONDUIT
  NEW 2 OF RADAR DETECTION CABLE
  NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE(PED)
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- M: NEW 1 OF 2" PLASTIC CONDUIT
  NEW 2 OF AWG NO. 8 CONDUCTOR (LIGHTING)
  NEW 1 OF AWG NO. 10 CONDUCTOR (GROUND))
- N: NEW 1 OF RADAR DETECTION CABLE
  NEW 1 OF 7 AWG NO. 14 SIGNAL CABLE(PED)

USE EXISTING CONDUIT AND CONDUCTORS IF NOT NOTED IN PLAN SHEET

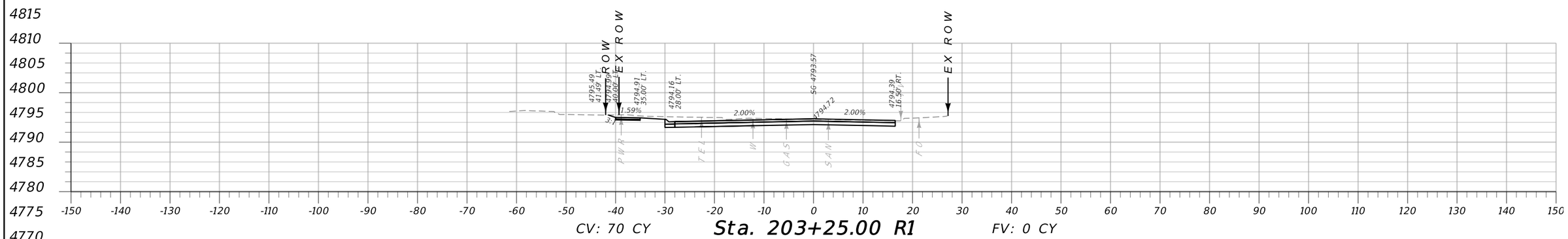
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9313000elpln002.dgn	DESIGNED BY	Dan Cunningham	6/2021	ELECTRICAL PLANS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
2		2/24/2025	REVIEWED BY	Joe DeGroat	11/2023	PRELIMINARY	UPN 9313000 / E10
		6:56:12 AM CPS - U7323	CHECKED BY			GALLATIN COUNTY	

AWARD COPY

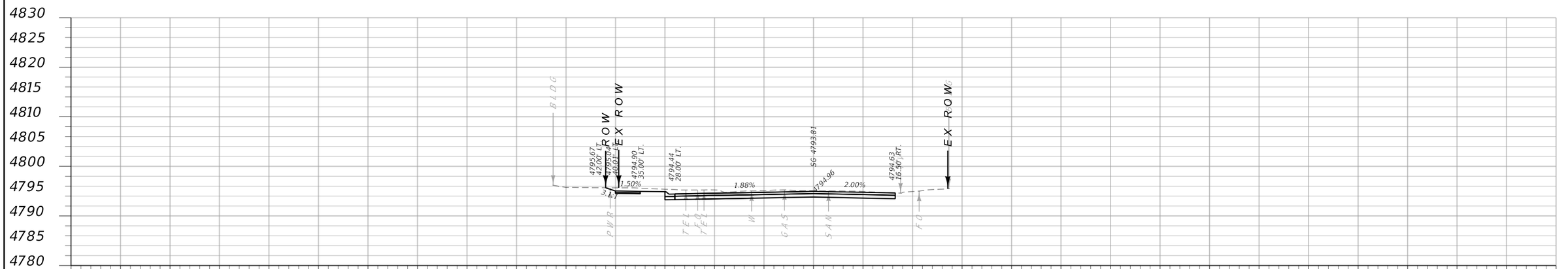


MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024		
	7:34:00 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / SHEET 1

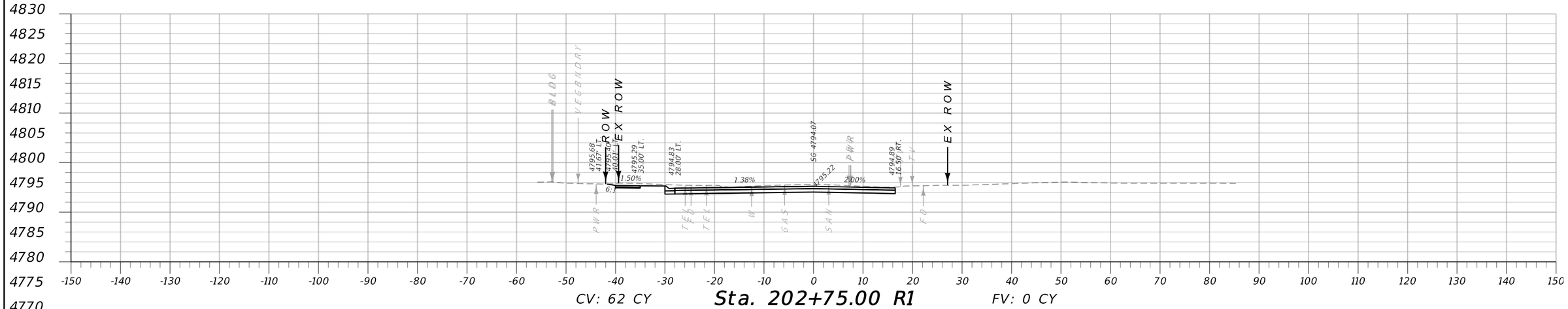
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CV: 70 CY **Sta. 203+25.00 R1** FV: 0 CY



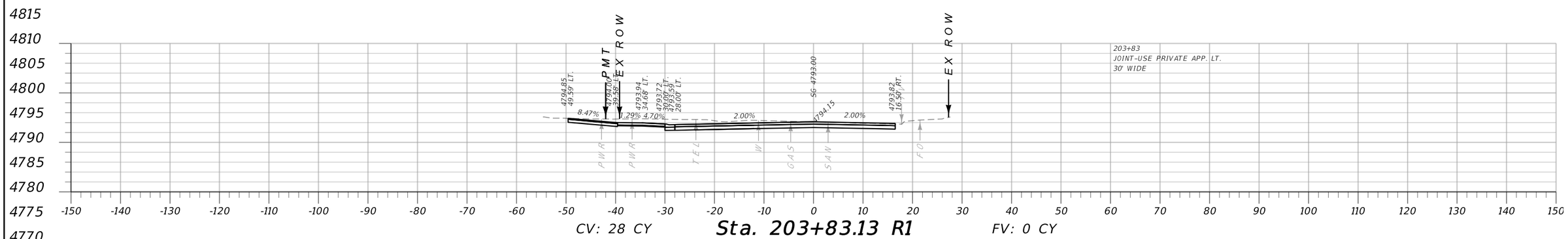
CV: 72 CY **Sta. 203+00.00 R1** FV: 0 CY

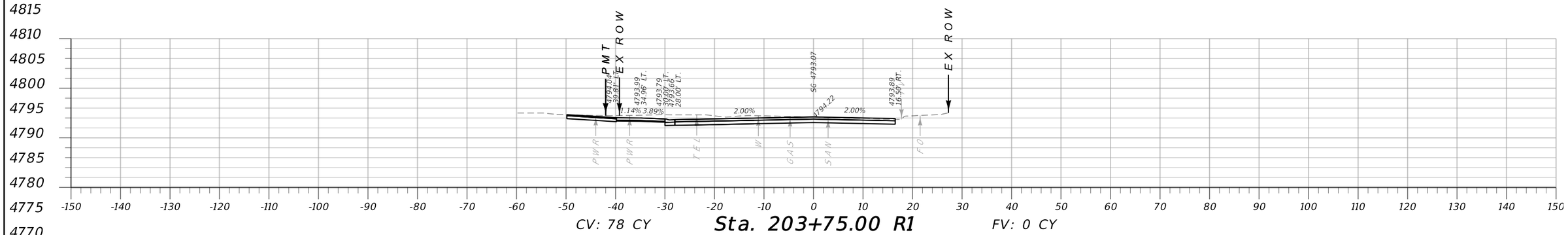


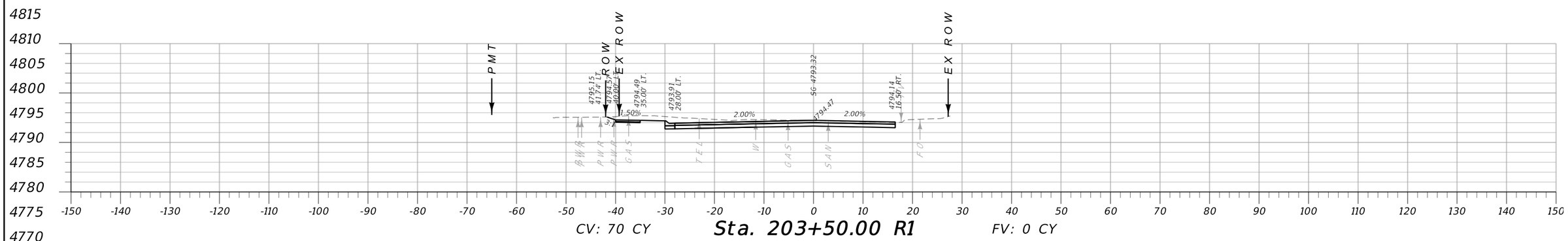
CV: 62 CY **Sta. 202+75.00 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY J. BERAN 9/30/2024	W PEACH ST CROSS SECTIONS		N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/4/2025	REVIEWED BY R. BARBULA 10/30/2024				
	7:34:05 AM CPS - U5198	CHECKED BY J. CERECK 1/16/2025	GALLATIN COUNTY		UPN 9313000	SHEET 2

AWARD COPY

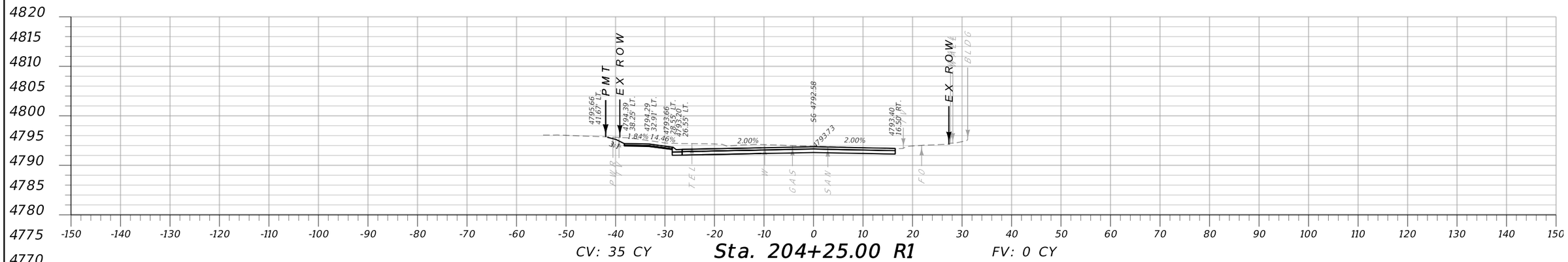




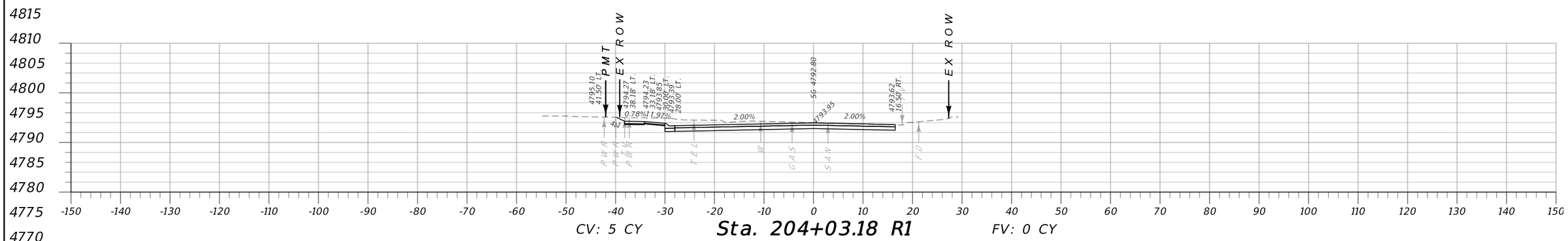


MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024	GALLATIN COUNTY	UPN 9313000	SHEET 3
	7:34:09 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025			

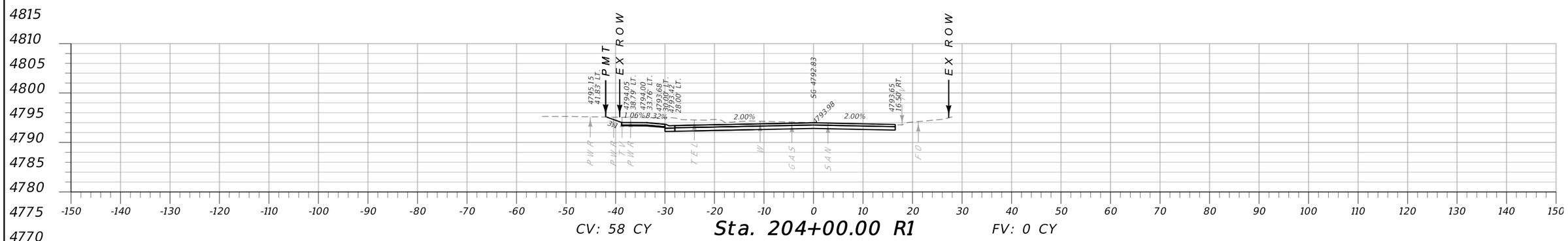
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CV: 35 CY **Sta. 204+25.00 R1** FV: 0 CY



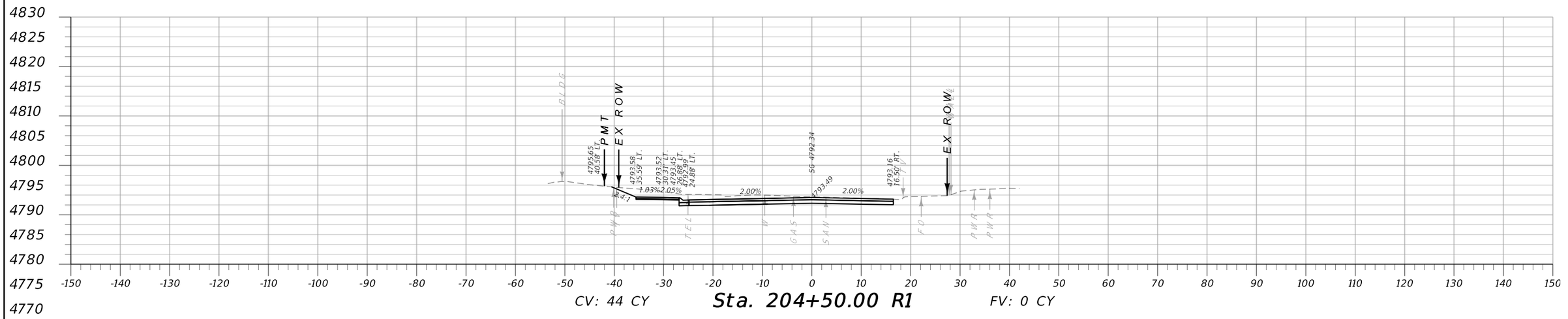
CV: 5 CY **Sta. 204+03.18 R1** FV: 0 CY



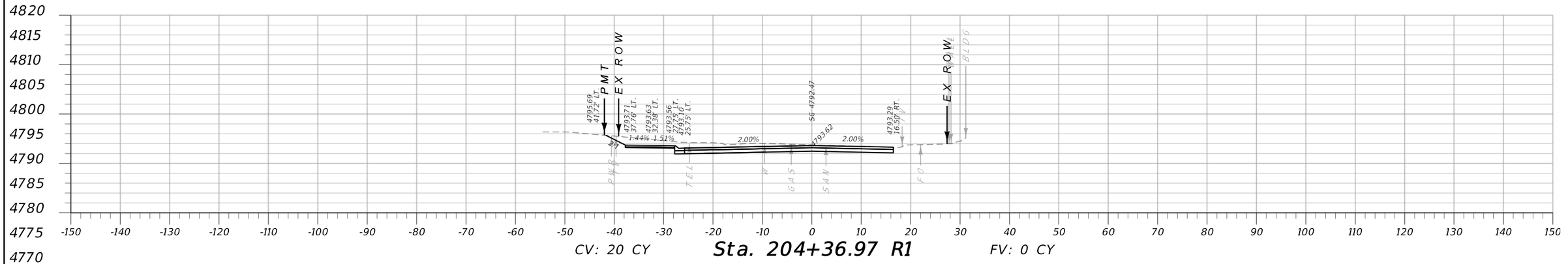
CV: 58 CY **Sta. 204+00.00 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024	GALLATIN COUNTY	UPN 9313000 / SHEET 4
	7:34:13 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025		

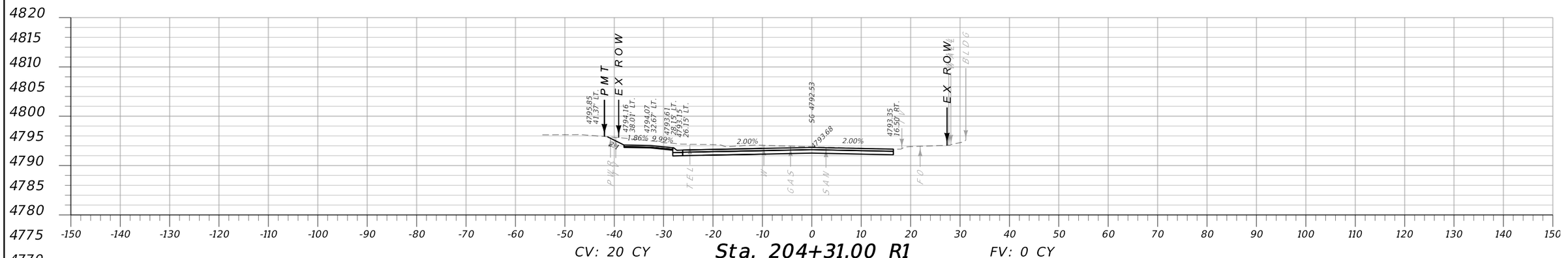
AWARD COPY



CV: 44 CY **Sta. 204+50.00 R1** FV: 0 CY



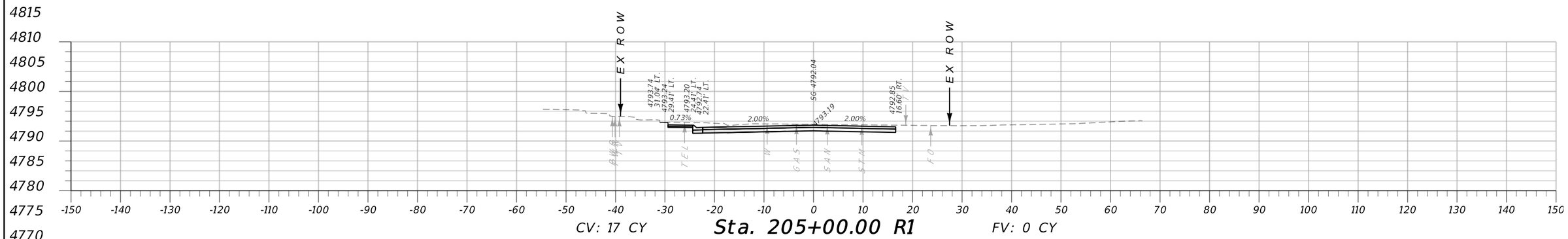
CV: 20 CY **Sta. 204+36.97 R1** FV: 0 CY



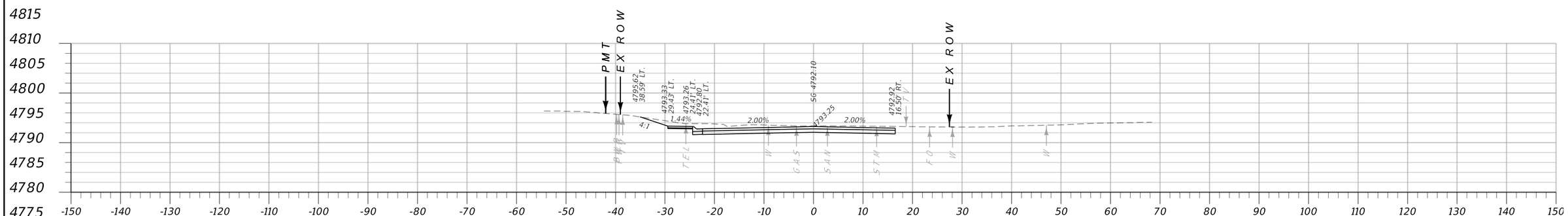
CV: 20 CY **Sta. 204+31.00 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024			
	7:34:18 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 5

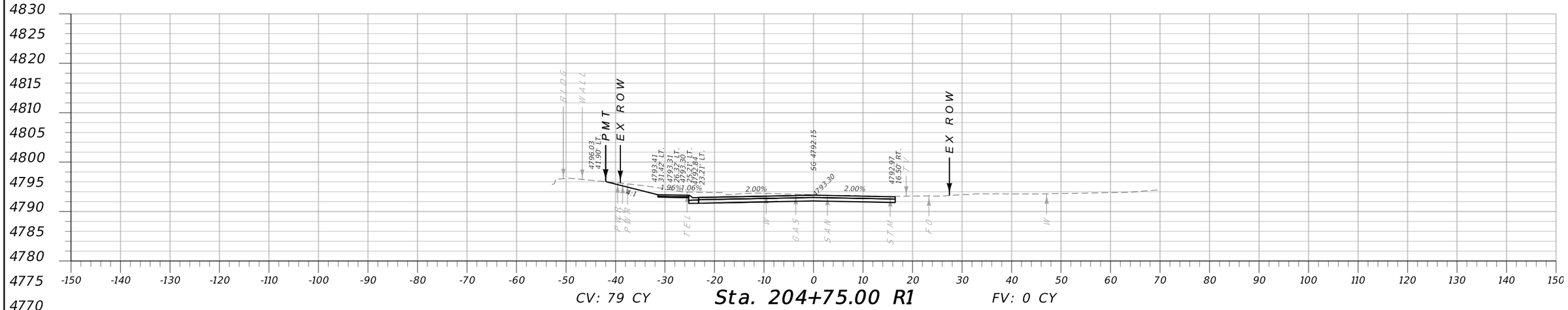
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CV: 17 CY **Sta. 205+00.00 R1** FV: 0 CY



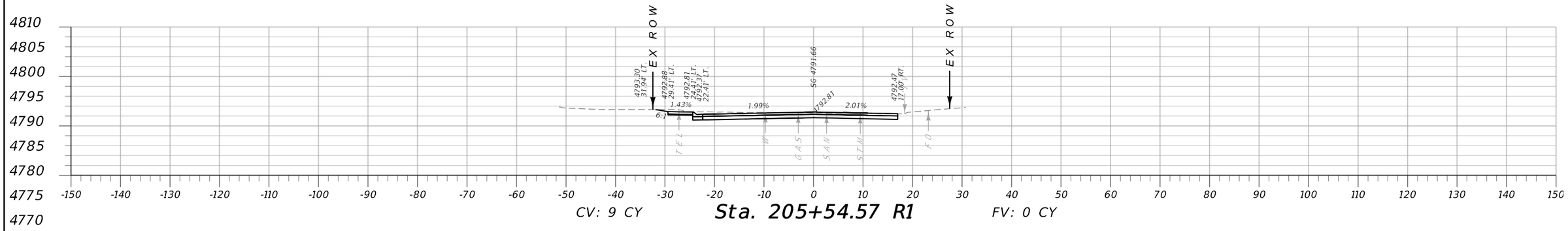
CV: 18 CY **Sta. 204+86.97 R1** FV: 0 CY

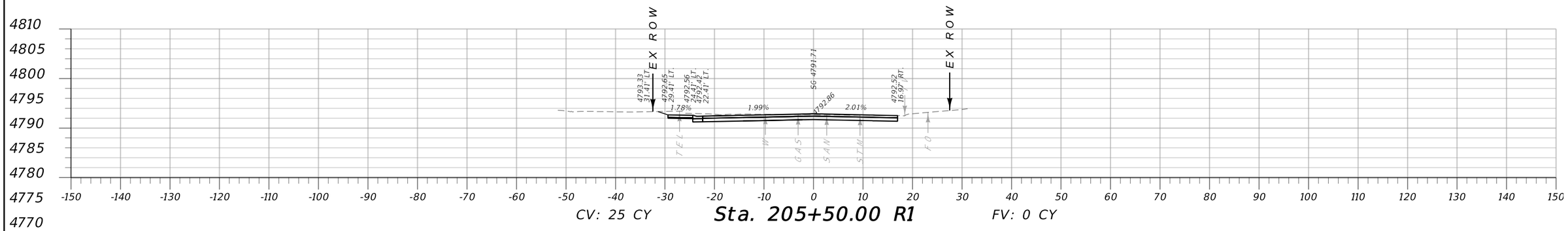


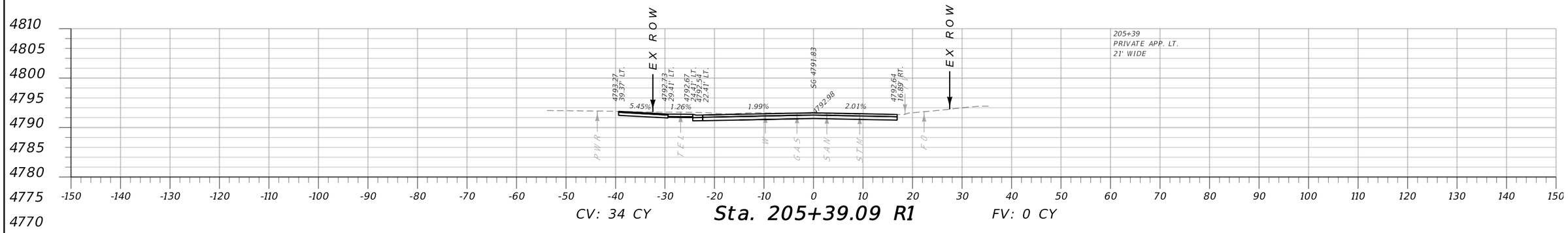
CV: 79 CY **Sta. 204+75.00 R1** FV: 0 CY

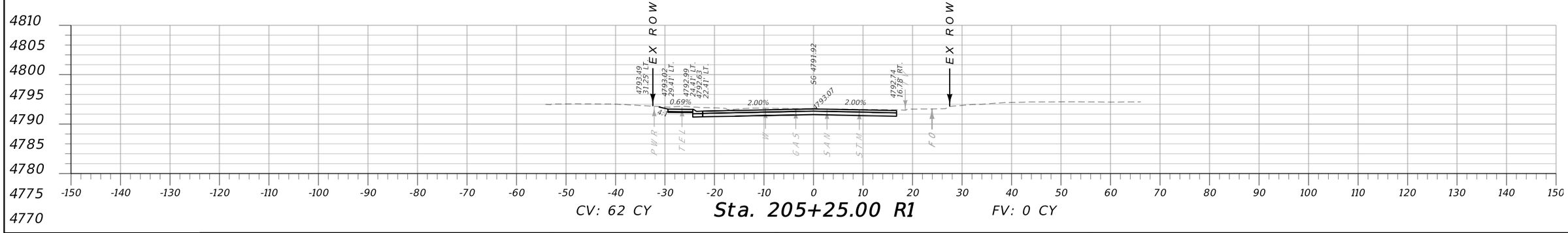
MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024			
	7:34:22 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 6

AWARD COPY



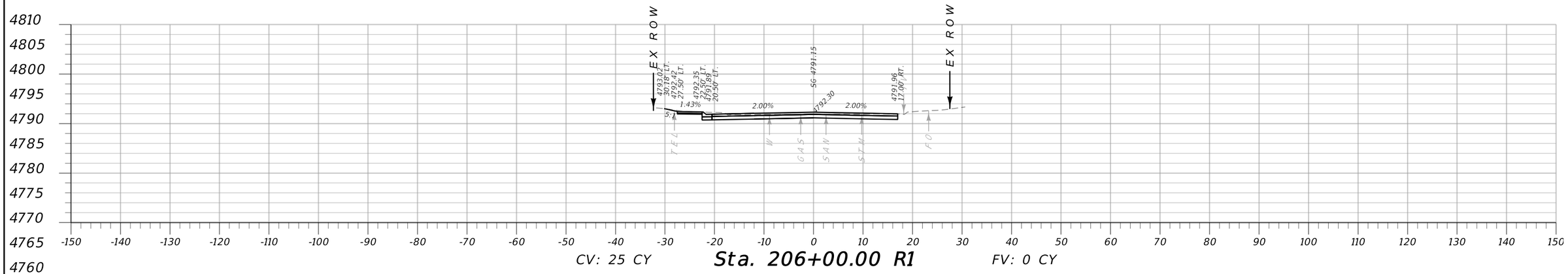




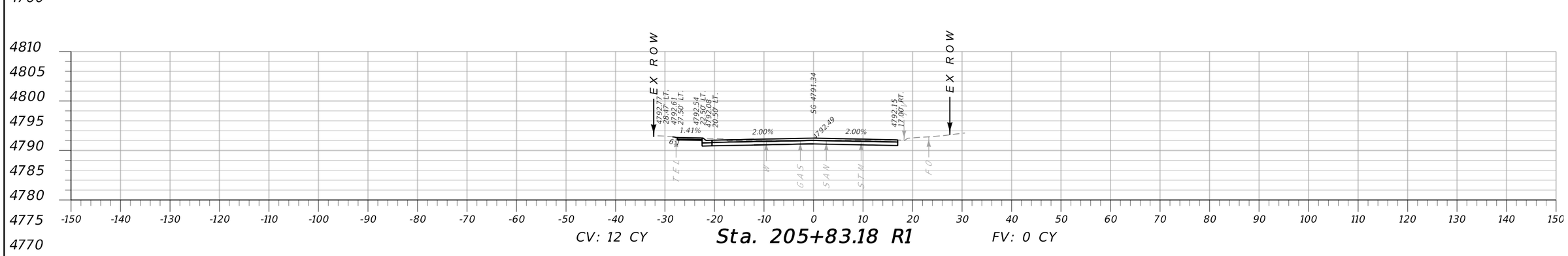


MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024		
	7:34:27 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / SHEET 7

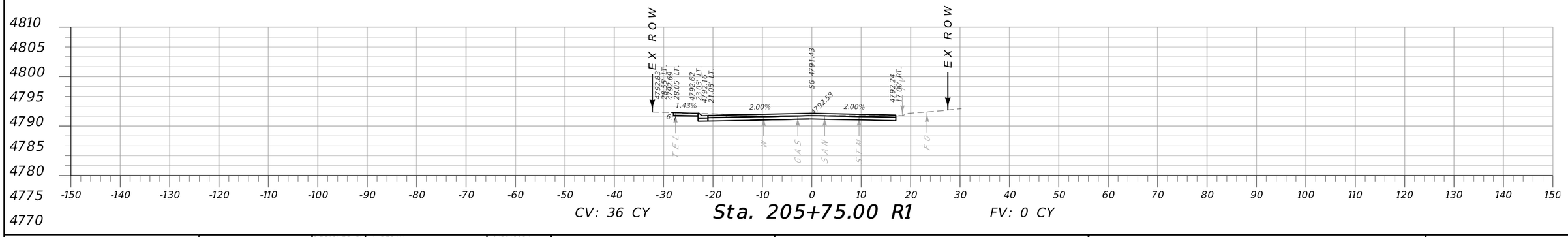
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CV: 25 CY **Sta. 206+00.00 R1** FV: 0 CY



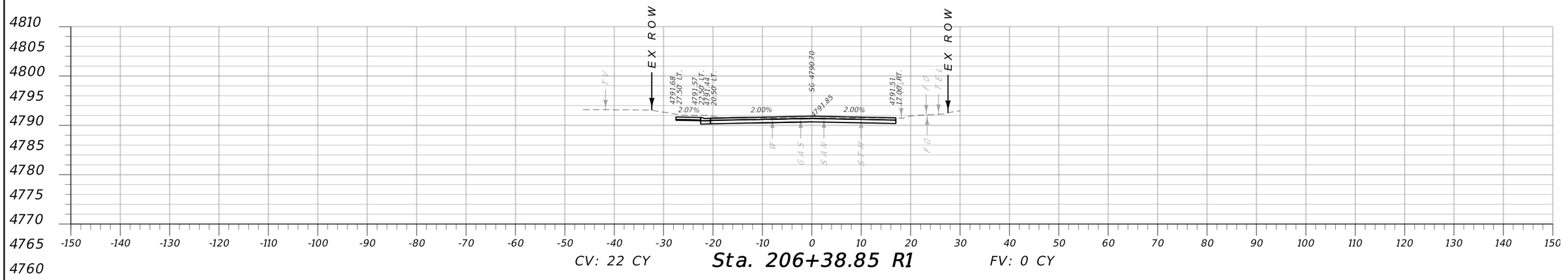
CV: 12 CY **Sta. 205+83.18 R1** FV: 0 CY



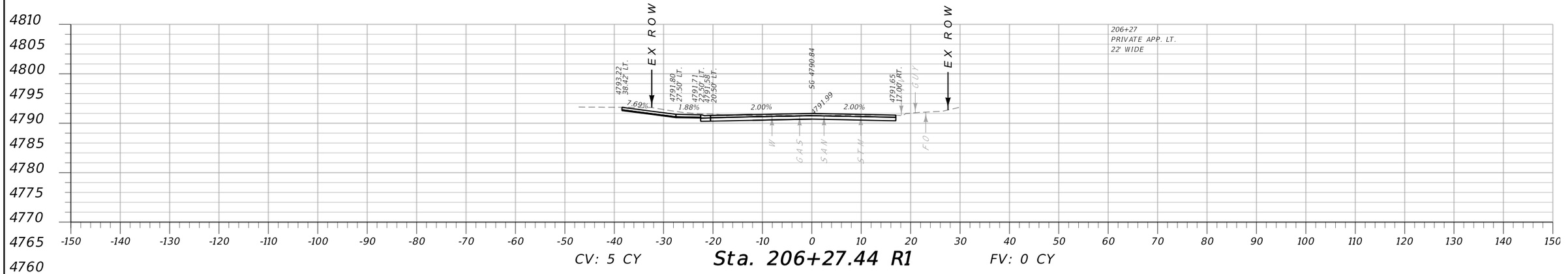
CV: 36 CY **Sta. 205+75.00 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/4/2025	REVIEWED BY R. BARBULA	10/30/2024			
	7:34:31 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 8

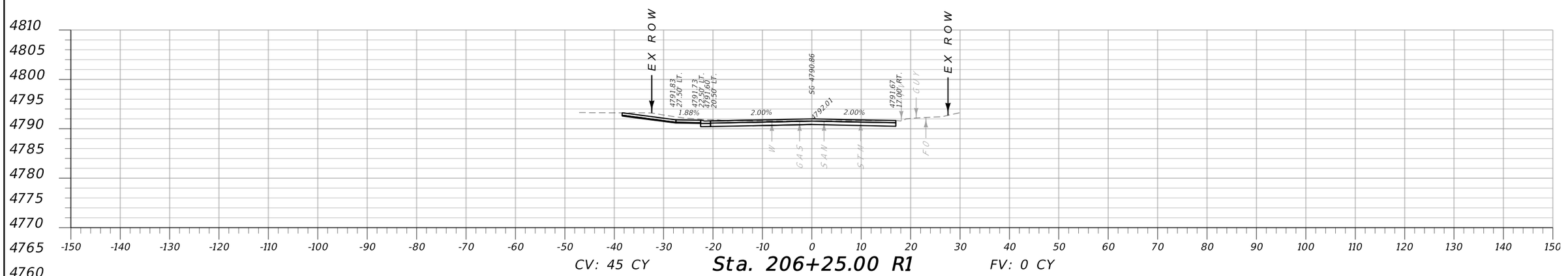
AWARD COPY



CV: 22 CY **Sta. 206+38.85 R1** FV: 0 CY



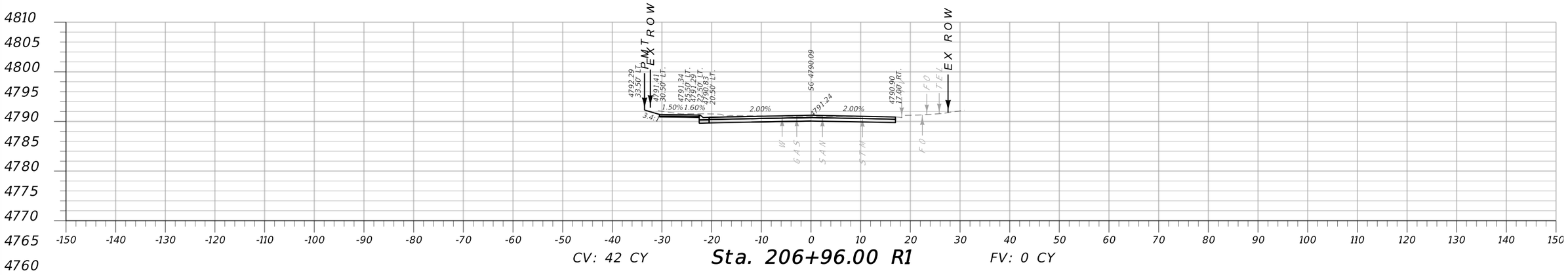
CV: 5 CY **Sta. 206+27.44 R1** FV: 0 CY



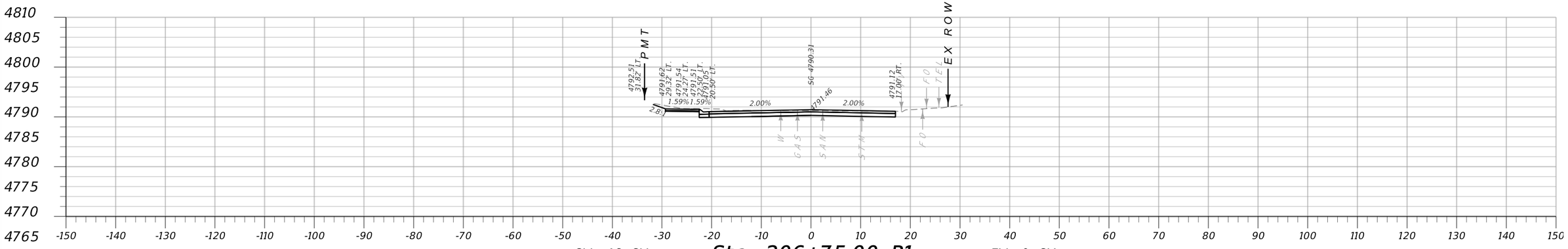
CV: 45 CY **Sta. 206+25.00 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024			
	7:34:35 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 9

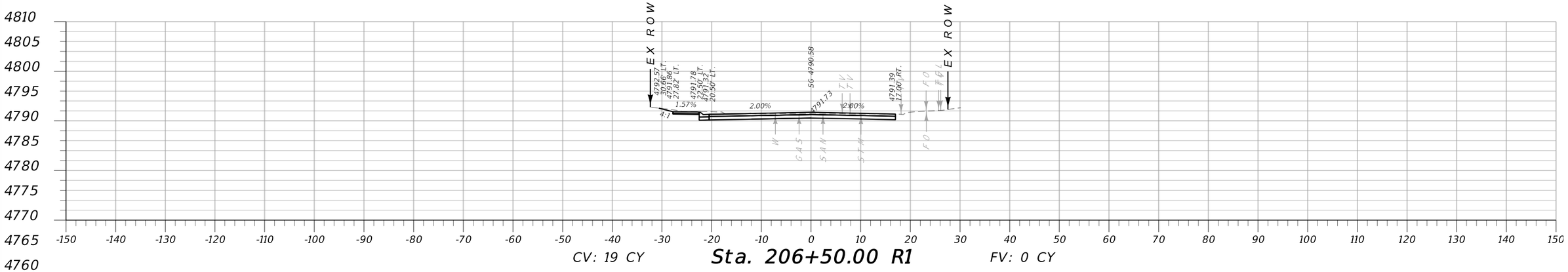
AWARD COPY



CV: 42 CY **Sta. 206+96.00 R1** FV: 0 CY



CV: 46 CY **Sta. 206+75.00 R1** FV: 0 CY

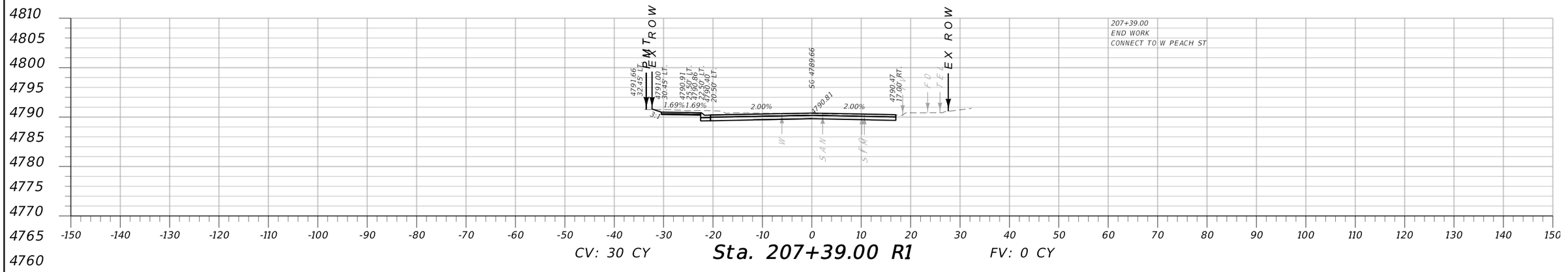


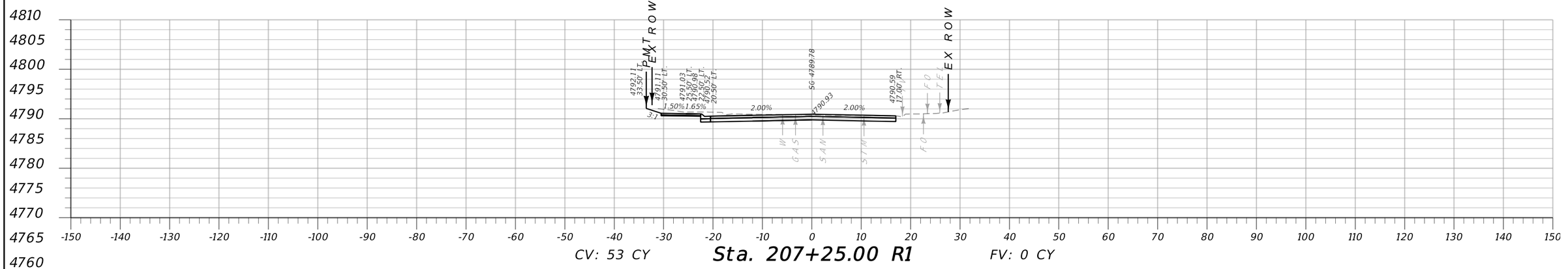
CV: 19 CY **Sta. 206+50.00 R1** FV: 0 CY

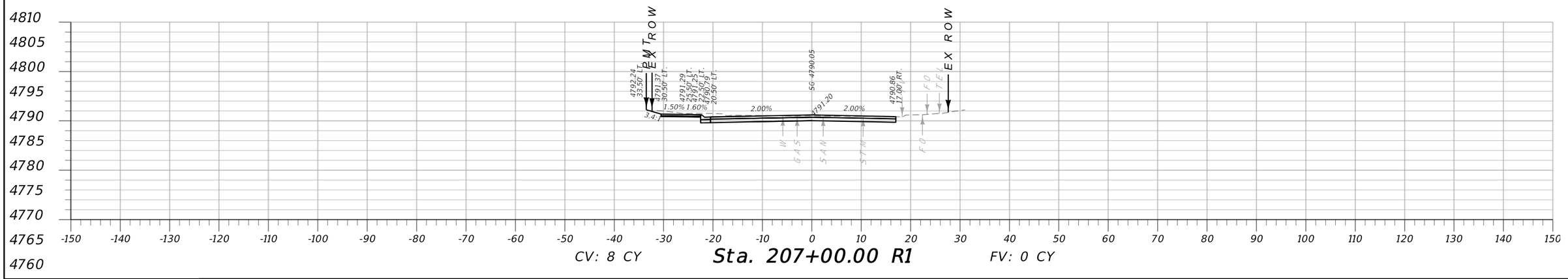
MONTANA
Department of Transportation

C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024		
7:34:40 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / SHEET 10

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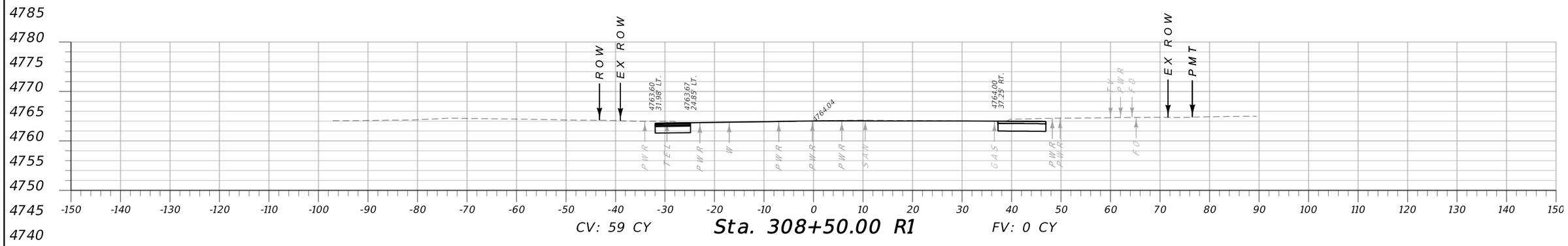




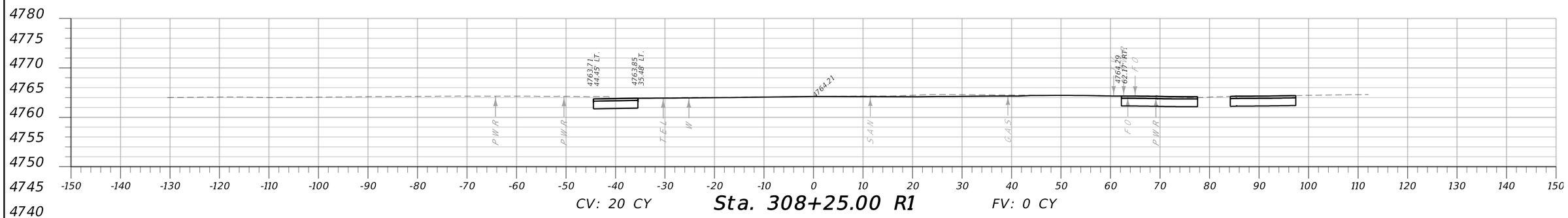


MONTANA Department of Transportation	C:\DGN\9313000rdlay002.dgn	DESIGNED BY	J. BERAN	9/30/2024	W PEACH ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/4/2025	REVIEWED BY	R. BARBULA	10/30/2024		
	7:34:44 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / SHEET 11

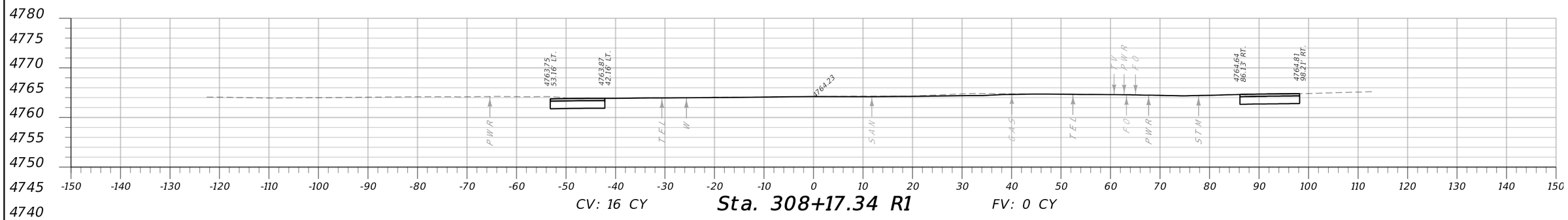
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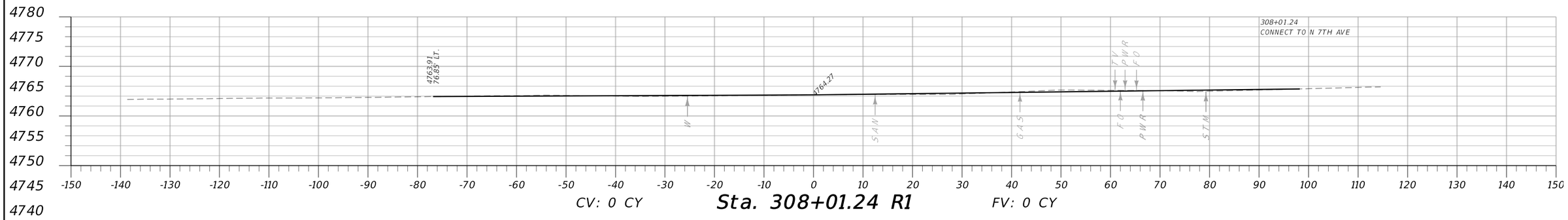
CV: 59 CY **Sta. 308+50.00 R1** FV: 0 CY



CV: 20 CY **Sta. 308+25.00 R1** FV: 0 CY



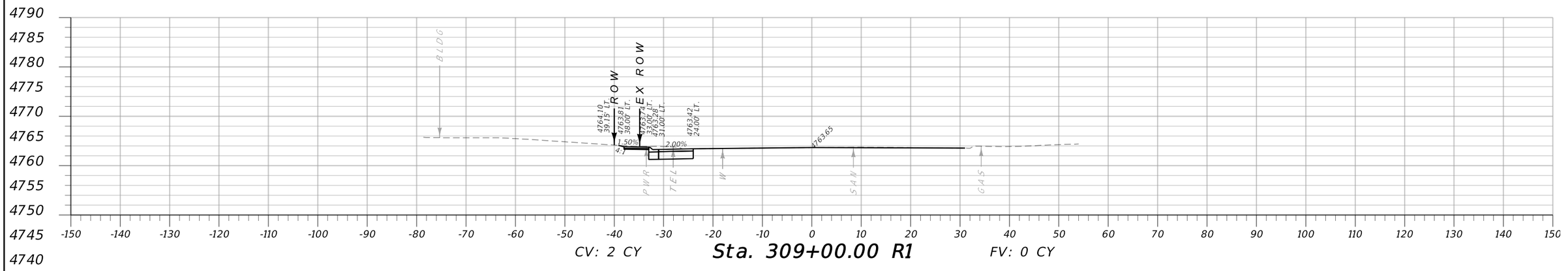
CV: 16 CY **Sta. 308+17.34 R1** FV: 0 CY



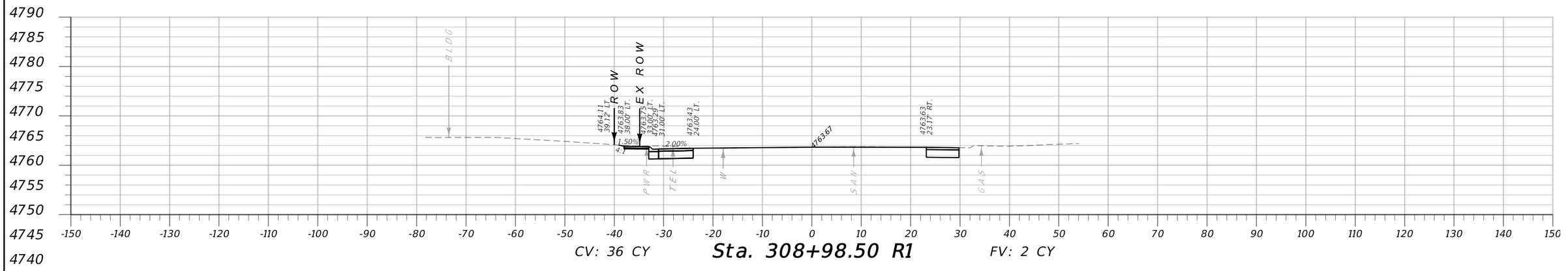
CV: 0 CY **Sta. 308+01.24 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS		N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024			
	10:53:00 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY		UPN 9313000 / SHEET 1

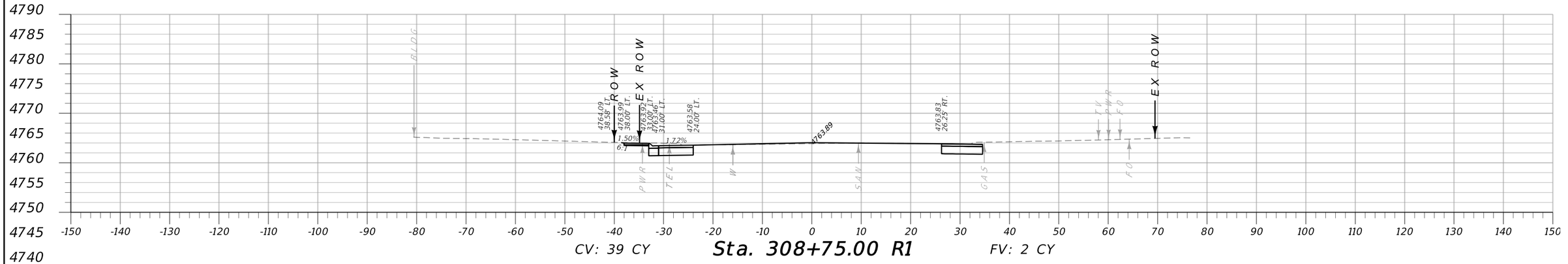
AWARD COPY



CV: 2 CY **Sta. 309+00.00 R1** FV: 0 CY



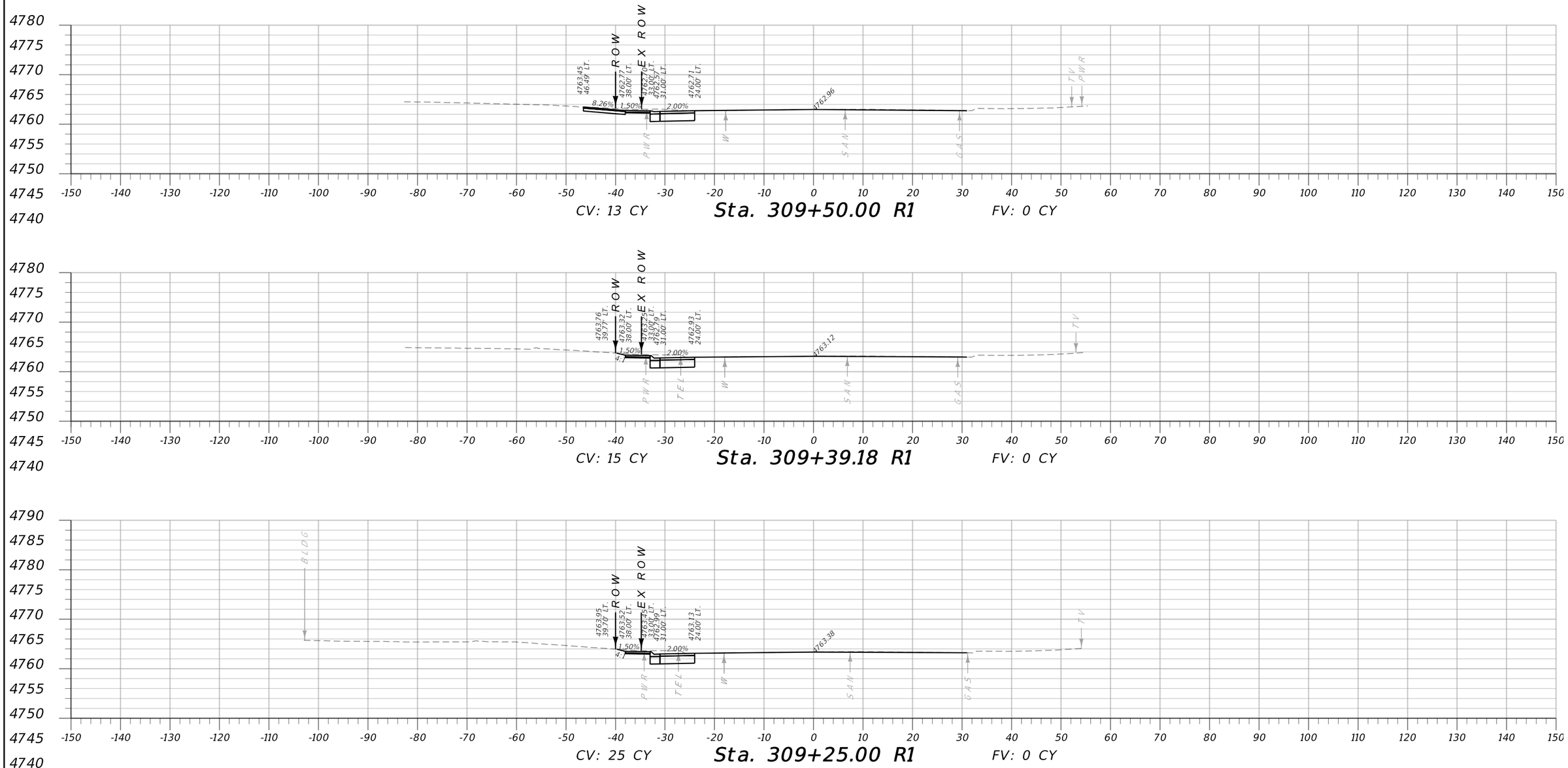
CV: 36 CY **Sta. 308+98.50 R1** FV: 2 CY



CV: 39 CY **Sta. 308+75.00 R1** FV: 2 CY

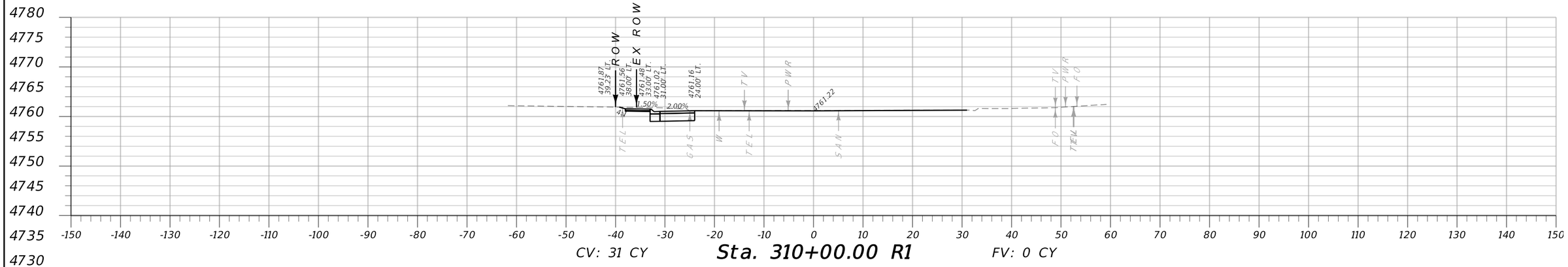
MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY	J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/3/2025	REVIEWED BY	R. BARBULA	10/13/2024			
	10:53:04 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 2

AWARD COPY

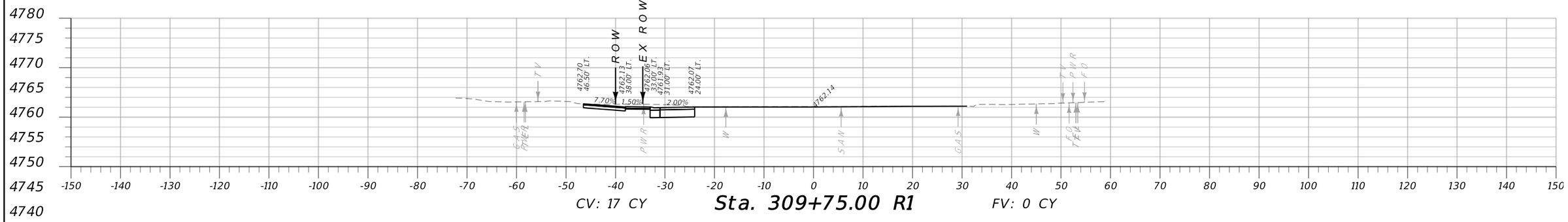


MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024			
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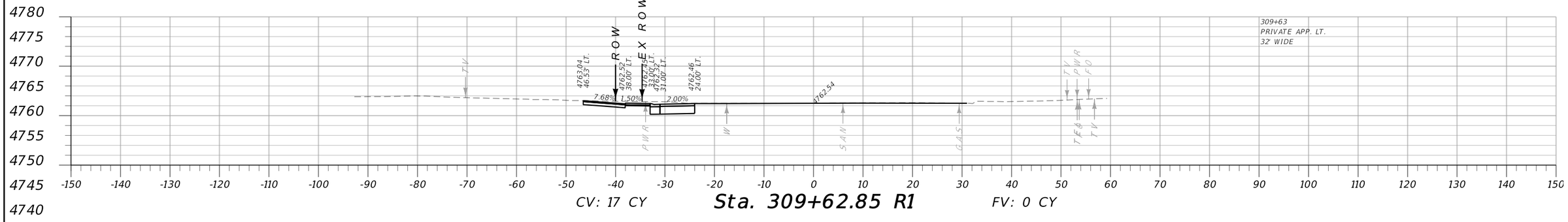
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CV: 31 CY **Sta. 310+00.00 R1** FV: 0 CY



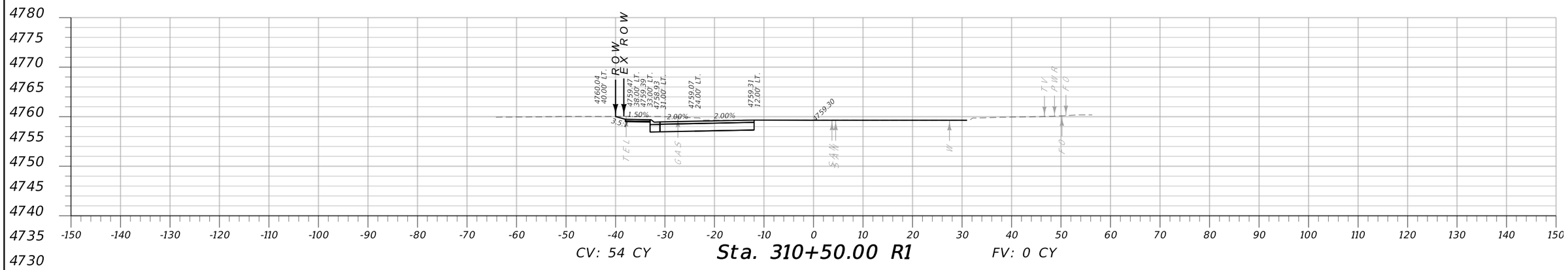
CV: 17 CY **Sta. 309+75.00 R1** FV: 0 CY



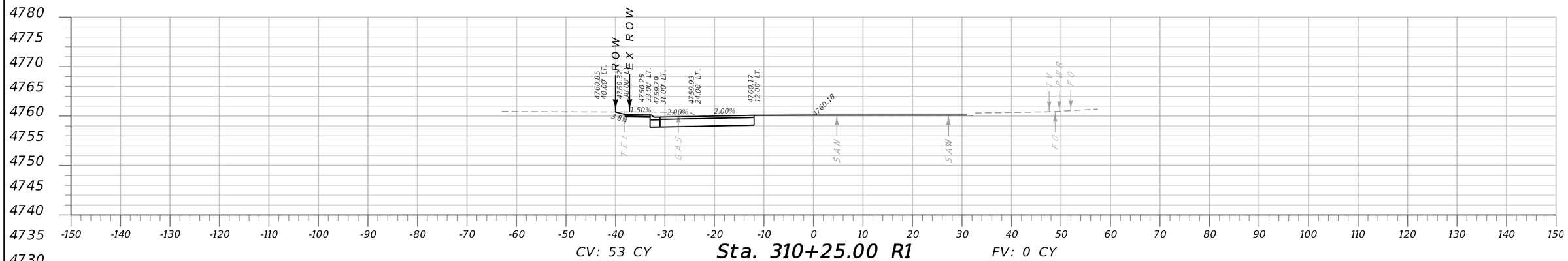
CV: 17 CY **Sta. 309+62.85 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS		N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024			
	10:53:13 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY		UPN 9313000 / SHEET 4

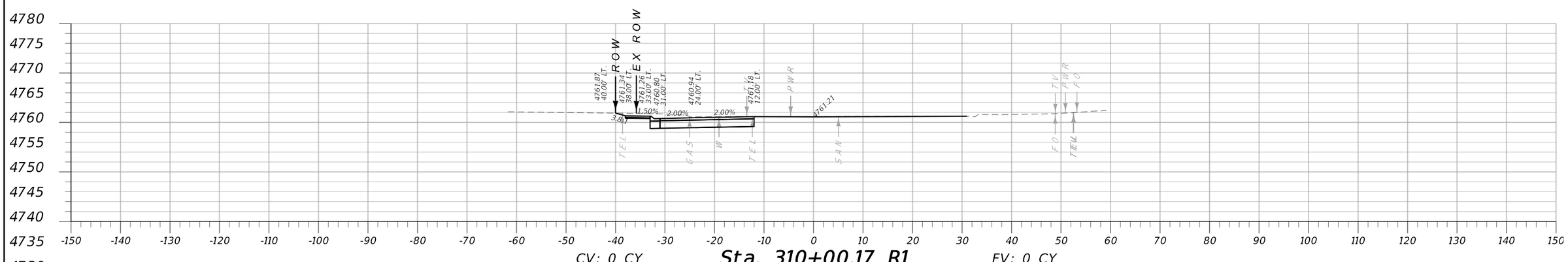
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CV: 54 CY **Sta. 310+50.00 R1** FV: 0 CY



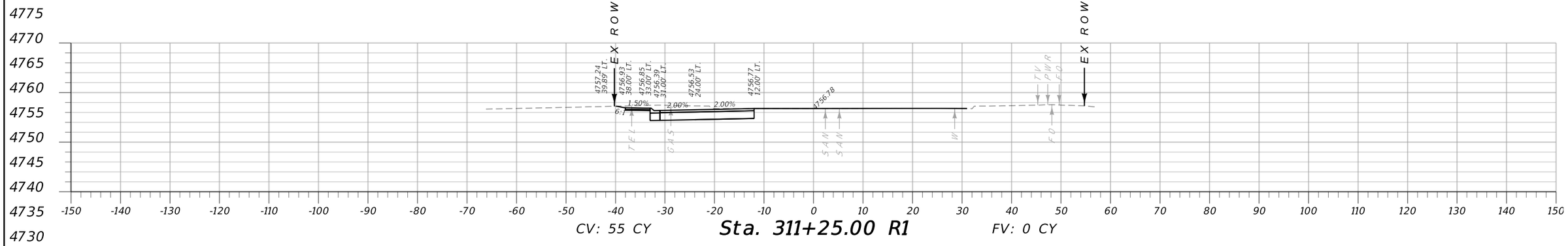
CV: 53 CY **Sta. 310+25.00 R1** FV: 0 CY

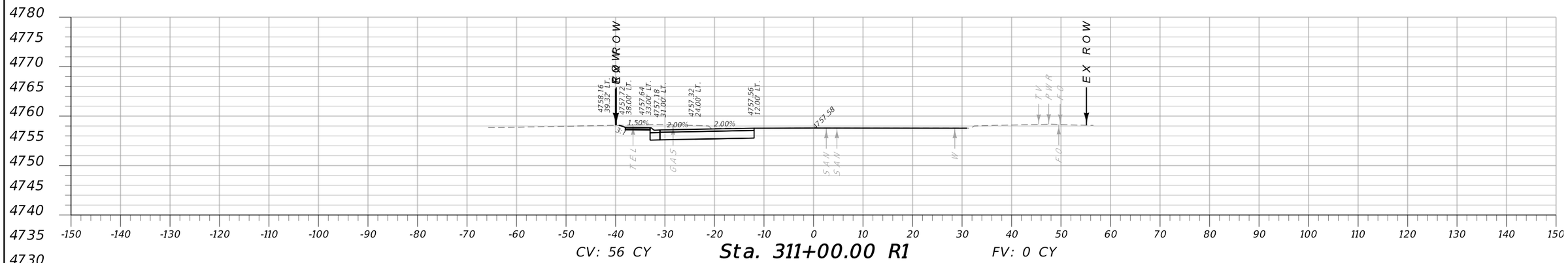


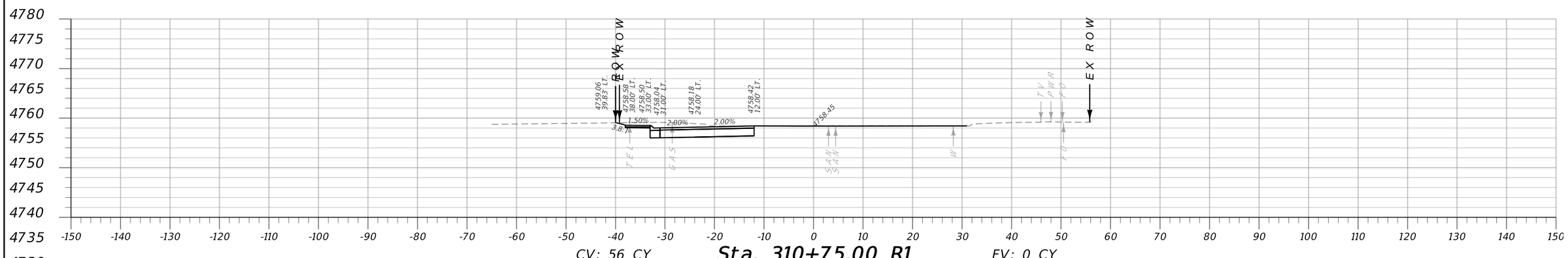
CV: 0 CY **Sta. 310+00.17 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024			
	10:53:17 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 5

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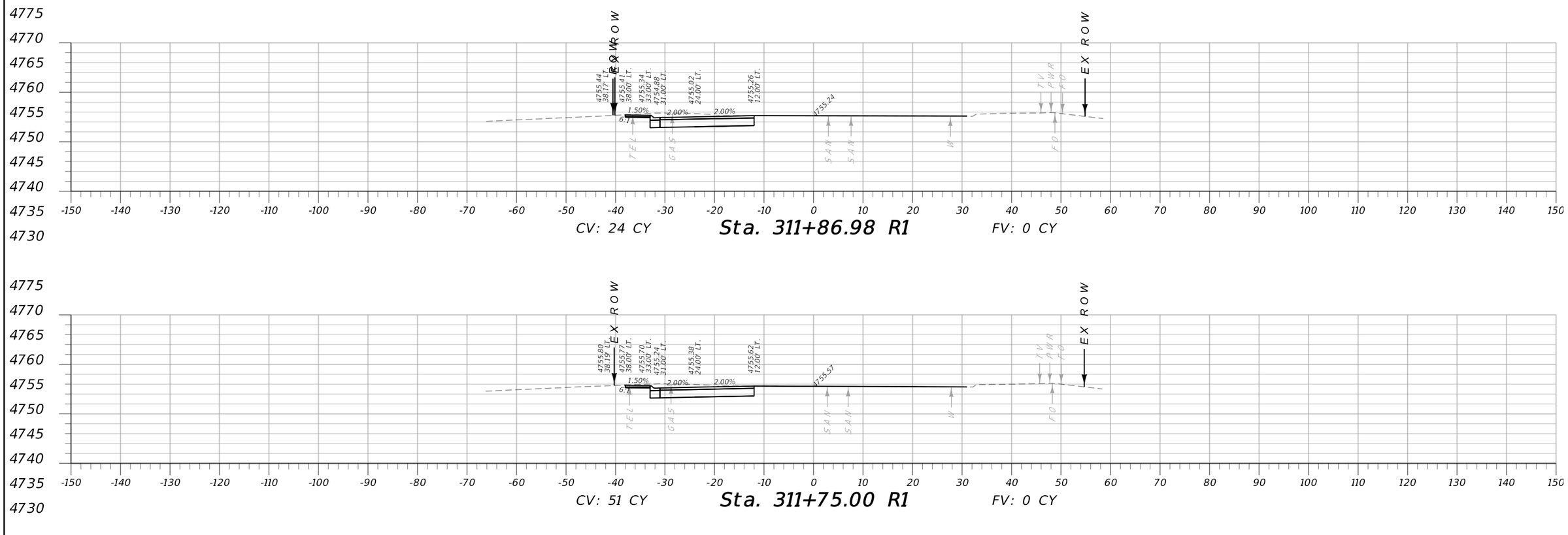






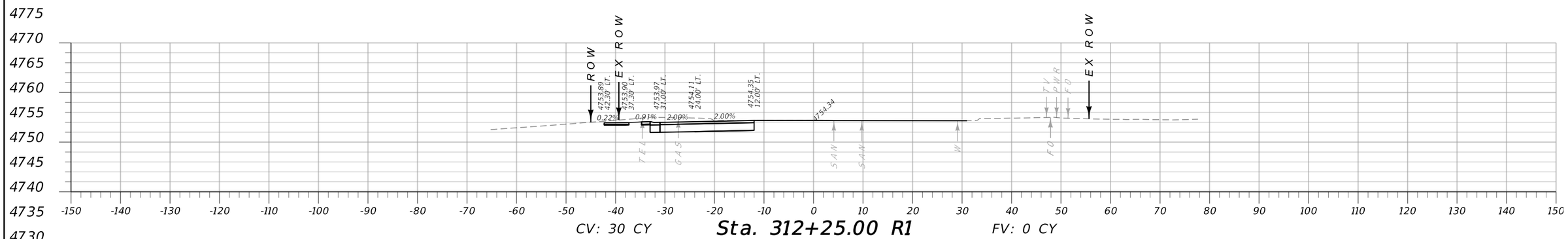
MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY	J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/3/2025	REVIEWED BY	R. BARBULA	10/13/2024			
	10:53:21 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 6

AWARD COPY

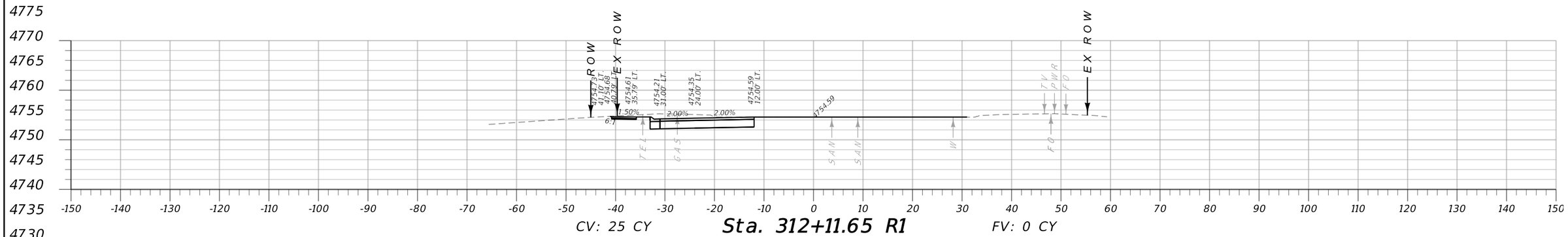


MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024		
	10:53:25 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000 / SHEET 7

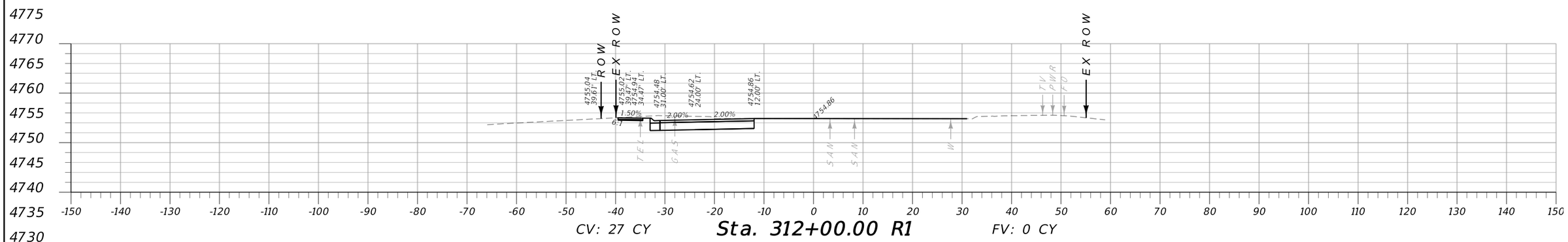
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CV: 30 CY **Sta. 312+25.00 R1** FV: 0 CY



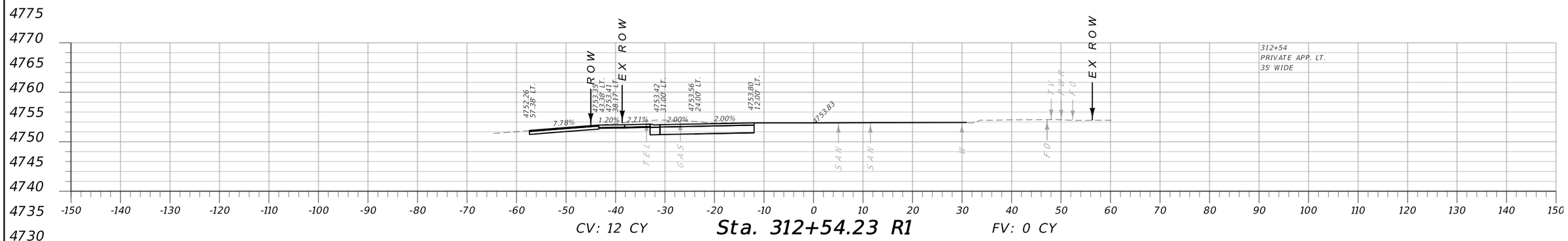
CV: 25 CY **Sta. 312+11.65 R1** FV: 0 CY



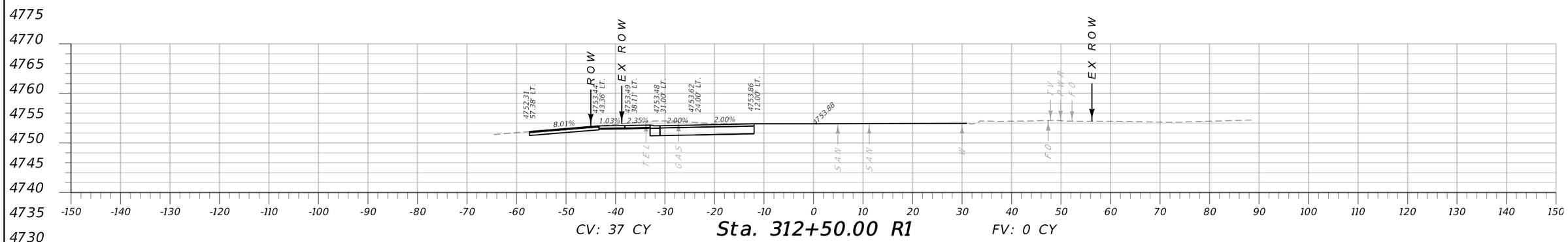
CV: 27 CY **Sta. 312+00.00 R1** FV: 0 CY

MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024			
	10:53:29 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 8

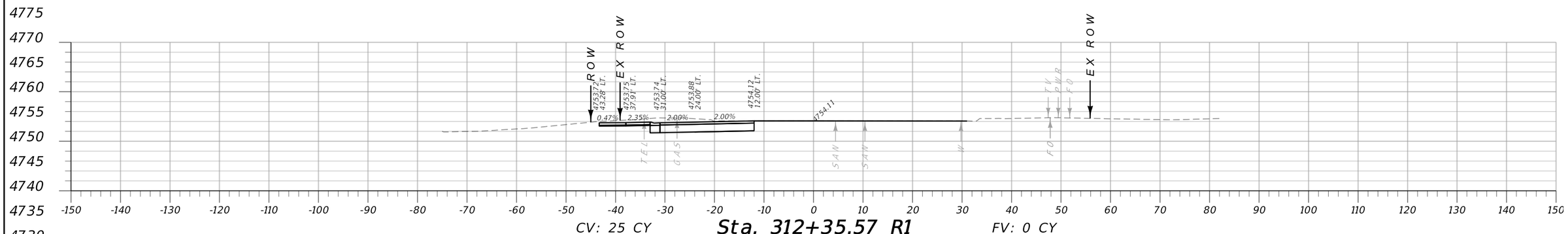
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CV: 12 CY **Sta. 312+54.23 R1** FV: 0 CY



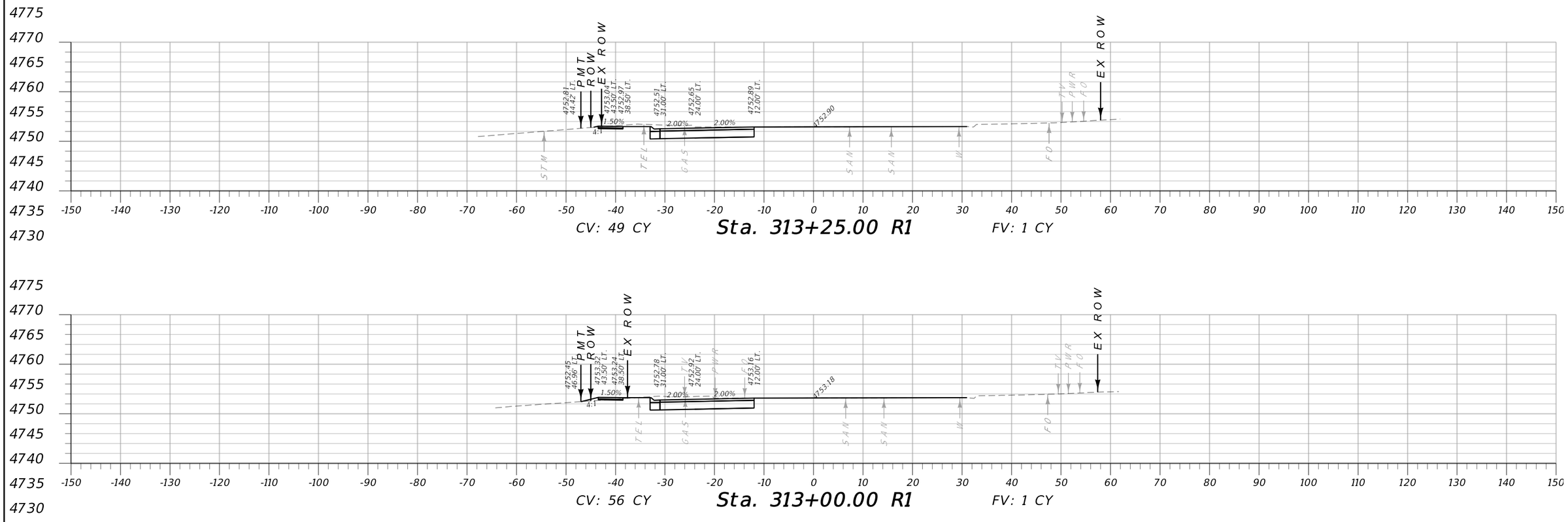
CV: 37 CY **Sta. 312+50.00 R1** FV: 0 CY



CV: 25 CY **Sta. 312+35.57 R1** FV: 0 CY

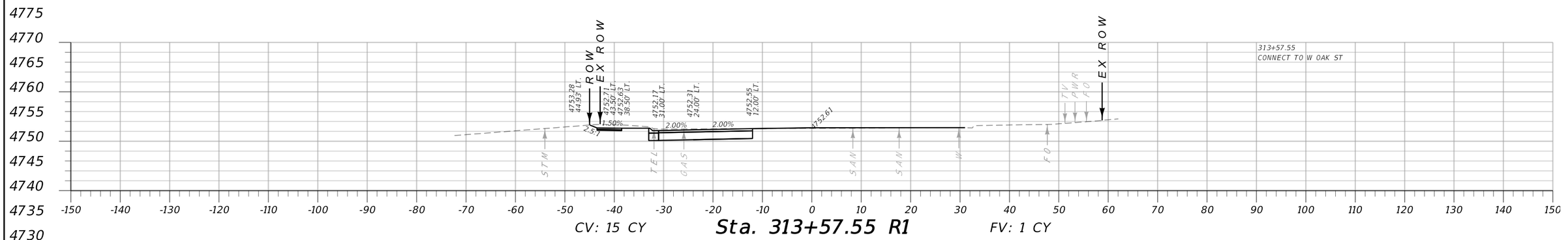
MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS		N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024			
	10:53:33 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY		UPN 9313000 / SHEET 9

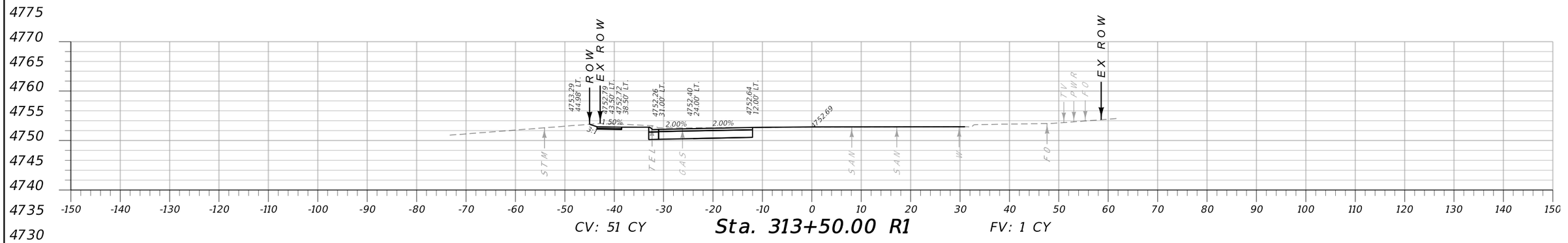
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MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY	J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN / CMDP 118-1(5)0
	3/3/2025	REVIEWED BY	R. BARBULA	10/13/2024	GALLATIN COUNTY	UPN 9313000 / SHEET 10
	10:53:37 AM CPS - U5198	CHECKED BY	J. CERECK	1/16/2025		

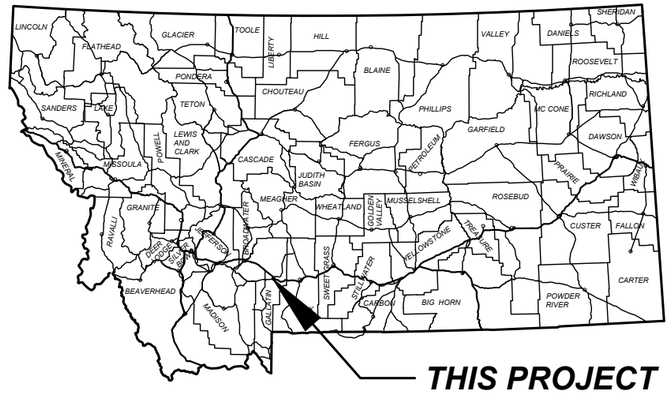
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MONTANA Department of Transportation	C:\DGN\9313000rdlay001.dgn	DESIGNED BY J. BERAN	9/27/2024	W OAK ST CROSS SECTIONS	N 7TH AVE INT IMPROV - BOZEMAN	CMDP 118-1(5)0
	3/3/2025	REVIEWED BY R. BARBULA	10/13/2024			
	10:53:42 AM CPS - U5198	CHECKED BY J. CERECK	1/16/2025	GALLATIN COUNTY	UPN 9313000	SHEET 11

AWARD COPY



MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 118-1(7)0

COLD MILLING, OVERLAY, SEAL & COVER

N 7TH AVENUE - BOZEMAN

GALLATIN COUNTY

LENGTH 1.4 MILES

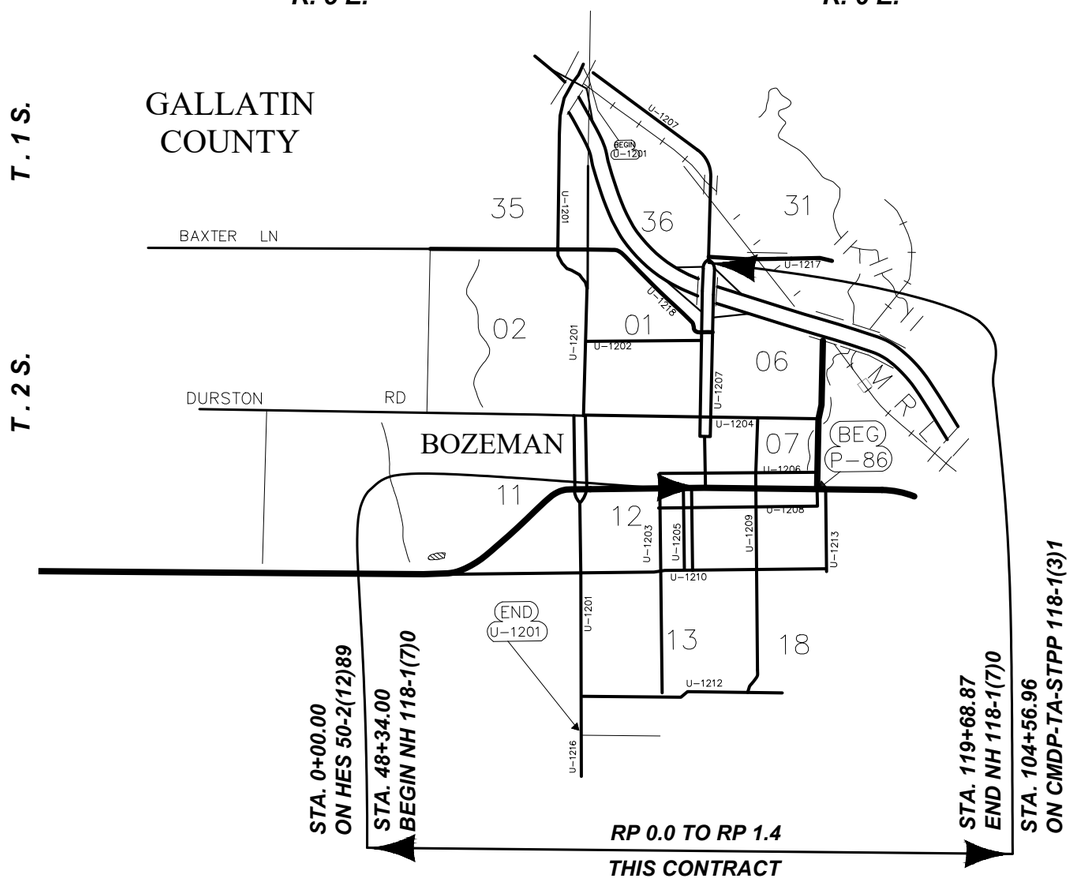
PROJECT DESIGN DATA

PRESENT	2019	A.D.T. =	18,050
LETTING	2024	A.D.T. =	18,970
DESIGN	2044	A.D.T. =	23,150
		D.H.V. =	2,340
		TRUCKS =	5.6%
		V. =	N/A
		18 KIP ESAL'S =	194 DAILY
		GROWTH RATE =	1.0% ANNUALLY

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	NH 118-1(6)0

RELATED PROJECTS
CMDP 118-1(5)0

SURFACING SOURCES - CONTRACTOR FURNISHED



SHEET NO. 01

TITLE

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY	10/2024
MSU DESIGN	
REVIEWED BY	11/2024
J. FLEMING	
CHECKED BY	01/2025
J. SOLIDAY	

MONTANA Department of Transportation

ROAD PLANS

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TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
NOTES	2
CENTERLINE COORDINATE TABLE	2
TYPICAL SECTIONS	3-11
SUMMARIES	12-13
SURFACING	12
ADDITIONAL SURFACING	12
BITUMINOUS PAVEMENT REMOVAL	12
CRACK SEALING	12
MANHOLES IN PLACE	13
WATER VALVE BOXES	13
PAVEMENT MARKINGS	13
DETAILS	14-18
CRACK SEALING	14
MILLING LIMITS	15-17
PAVEMENT REMOVAL	18

NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - TACK (CONCRETE SURFACES)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD
CRACK SEALANT	= 0.5 LBS. PER LINEAR FEET
MASTIC	= 1.5 LBS. PER LINEAR FEET

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.

AS-BUILTS

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

U-222(16) ,1966
HES 50-2(12)89
IM90-6(113)306 ,2014

NON-STANDARD ABBREVIATIONS

M.O.C. - MEASURED ON CAD

CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
48+04.02	BOA	525,054.808	1,573,428.461	BEGIN ALIGNMENT
48+34.00	BOP	525,084.780	1,573,429.153	BEGIN PROJECT
50+00.00	PI	525,250.738	1,573,432.984	
51+75.30	PI	525,425.963	1,573,437.877	
70+60.34	PI	527,310.693	1,573,472.061	
81+69.94	PI	528,420.038	1,573,496.124	
97+65.65	PI	530,015.391	1,573,529.851	
100+12.34	PI	530,261.861	1,573,540.292	
102+48.81	PI	530,498.311	1,573,543.443	
107+78.81	PI	531,028.181	1,573,555.203	
112+48.81	PI	531,498.065	1,573,565.631	
115+11.90	PI	531,761.083	1,573,571.868	
119+68.87	EOP/PI	532,217.933	1,573,581.932	END PROJECT
119+97.91	PI	532,246.975	1,573,582.572	
124+11.91	EOA	532,660.865	1,573,591.689	END ALIGNMENT

ALIGNMENT FILE: 9477000RDALN001.DWG *ALIGNMENT NAME: 9477000_RD_PA_MAINLINE*

SHEET NO. 02

TABLE OF CONTENTS, NOTES, CENTERLINE COORDINATE TABLE

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY	MSU DESIGN	10/2024
REVIEWED BY	J. FLEMING	11/2024
CHECKED BY	J. SOLIDAY	01/2025

9477000RDTTL001.DWG

MONTANA Department of Transportation

ROAD PLANS

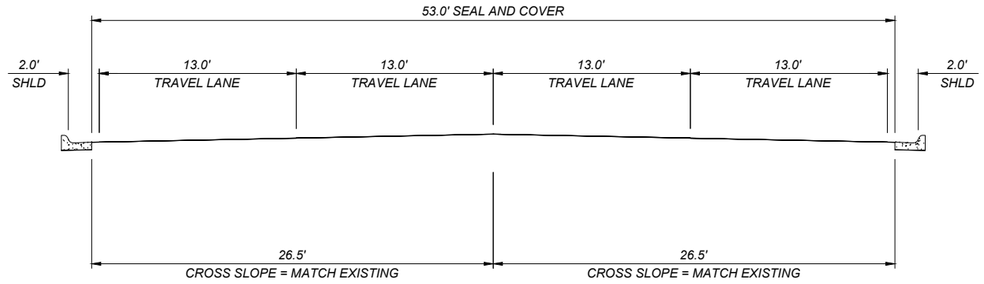
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TYPICAL SECTION NO. 1

MAINLINE

48+34.00			BEGIN PROJECT
48+34.00	TO	50+50.00	THEN TO TYP. NO. 2
53+05.00	TO	57+58.70	
57+58.70	TO	58+38.44	TRANS. TYP. NO. 1 TO TYP. NO. 3

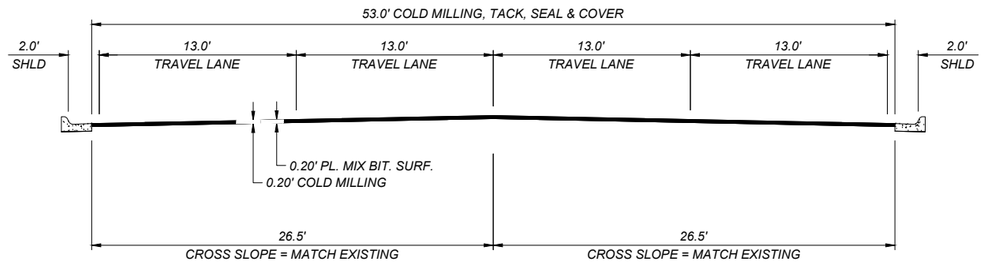


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	589	square yards PER STATION	589
		tons PER STATION	1.05

TYPICAL SECTION NO. 2

MAINLINE

50+50.00	TO	53+05.00	THEN TO TYP. NO. 1



QUANTITIES						
UNIT	AGGREGATE COVER	AGGREGATE PLANT MIX	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL	BITUMINOUS MATERIAL EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet		10.60	square yards PER STATION	589	589	589
cubic yards PER STATION		39.3	tons PER STATION	1.05		
tons PER STATION		75.8	gals. PER STATION		29	
square yards PER STATION	589					

*BASED ON 1 APPLICATION

SHEET NO. 03

TYPICAL SECTIONS

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY	DATE
MSU DESIGN	10/2024
REVIEWED BY	11/2024
J. FLEMING	
CHECKED BY	01/2025
J. SOLIDAY	

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MONTANA Department of Transportation

ROAD PLANS

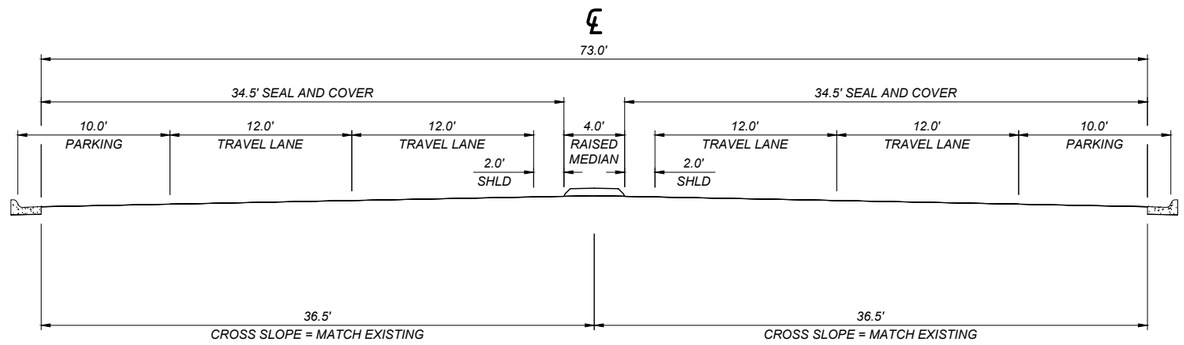
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TYPICAL SECTION NO. 3

MAINLINE

58+38.44 ONLY
58+38.44 TO 60+93.19 TRANS. TYP. NO. 3 TO TYP. NO. 4

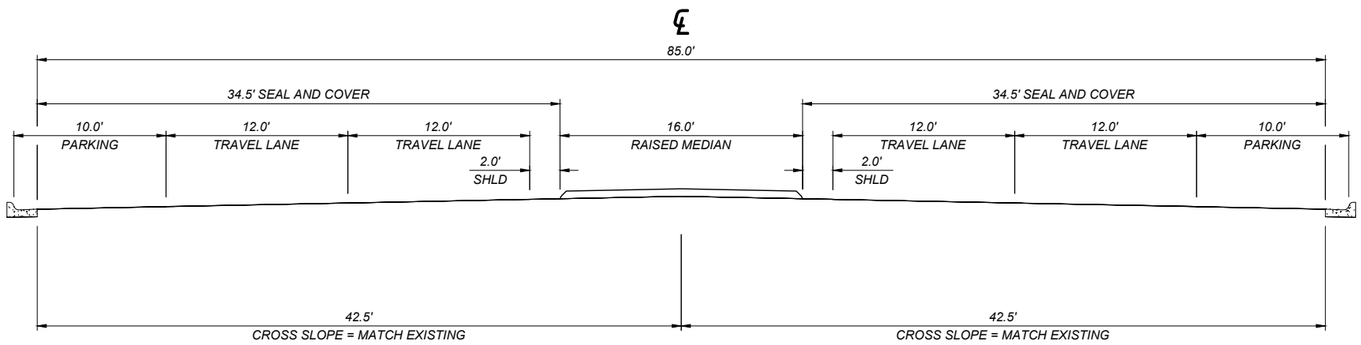


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	767	square yards PER STATION	767
		tons PER STATION	1.37

TYPICAL SECTION NO. 4

MAINLINE

60+93.19 TO 65+06.74
65+06.74 TO 66+05.67 TRANS. TYP. NO. 4 TO TYP. NO. 5
72+59.99 TO 76+15.47
76+15.47 TO 77+12.70 TRANS. TYP. NO. 4 TO TYP. NO. 5
80+10.68 ONLY, THEN TO TYP. NO. 7



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	767	square yards PER STATION	767
		tons PER STATION	1.37

SHEET NO. 04

TYPICAL SECTIONS

PROJECT NAME N 7TH AVENUE - BOZEMAN
COUNTY GALLATIN
PROJECT ID NH 118-1(7)0
UPN 9477000

DESIGNED BY MSU DESIGN 10/2024
REVIEWED BY J. FLEMING 11/2024
CHECKED BY J. SOLIDAY 01/2025
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MONTANA Department of Transportation

ROAD PLANS

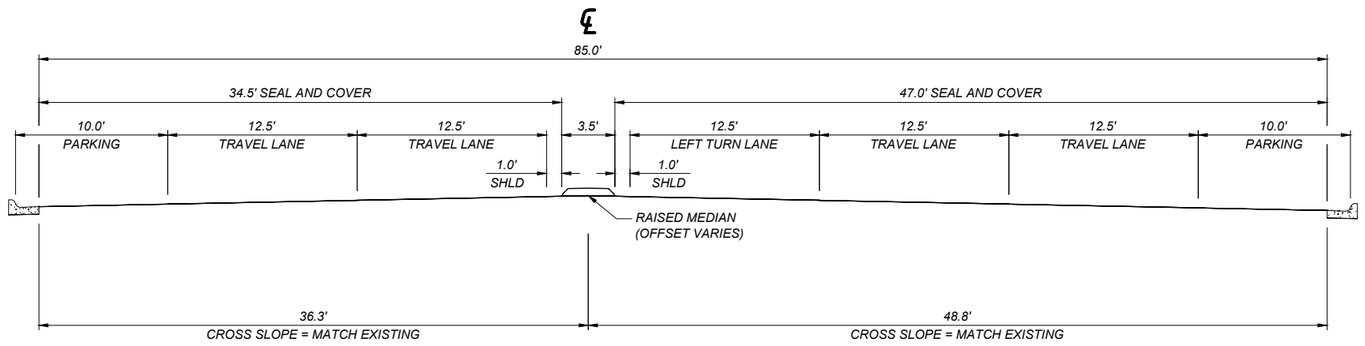
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TYPICAL SECTION NO. 5

MAINLINE

66+05.67	TO	68+39.00	THEN TO TYP. NO. 6
77+12.70	TO	79+13.72	
79+13.72	TO	80+10.68	TRANS. TYP. NO. 5 TO TYP. NO. 4
84+00.00	TO	93+76.66	THEN TO TYP. NO. 6

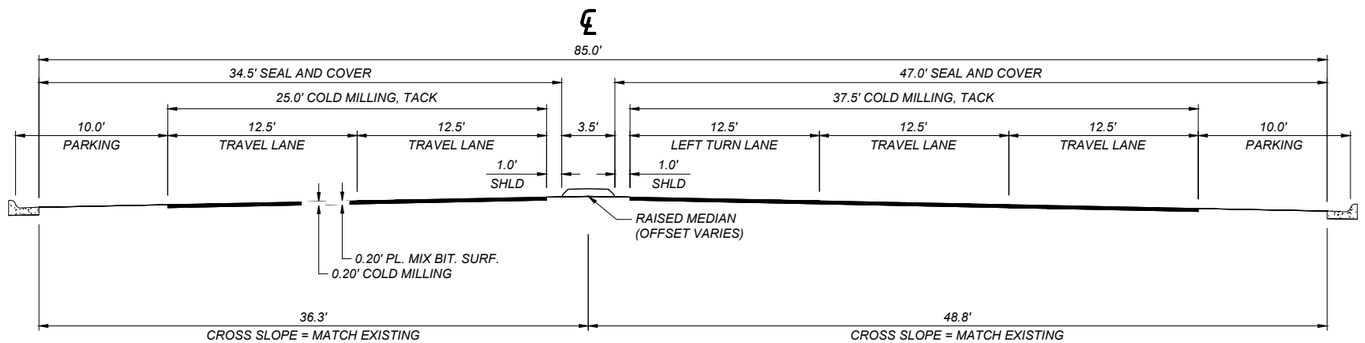


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	906	square yards PER STATION	906
		tons PER STATION	1.62

TYPICAL SECTION NO. 6

MAINLINE

68+39.00	TO	72+59.99	THEN TO TYP. NO. 4 (INTERSECTION M.O.C.)
81+23.68	TO	84+00.00	THEN TO TYP. NO. 5 (INTERSECTION M.O.C.)
93+76.66	TO	95+14.16	THEN TO TYP. NO. 8



QUANTITIES						
UNIT	AGGREGATE COVER	AGGREGATE PLANT MIX	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL	BITUMINOUS MATERIAL EMULSIFIED ASPHALT TACK*	COLD MILLING
AREA square feet		12.50	square yards PER STATION	906	694	694
cubic yards PER STATION		46.3	tons PER STATION	1.62		
tons PER STATION		89.2	gals. PER STATION		35	
square yards PER STATION	906					

*BASED ON 1 APPLICATION

SHEET NO. 05

TYPICAL SECTIONS

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY	DATE
MSU DESIGN	10/2024
REVIEWED BY	DATE
J. FLEMING	11/2024
CHECKED BY	DATE
J. SOLIDAY	01/2025

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MONTANA Department of Transportation

ROAD PLANS

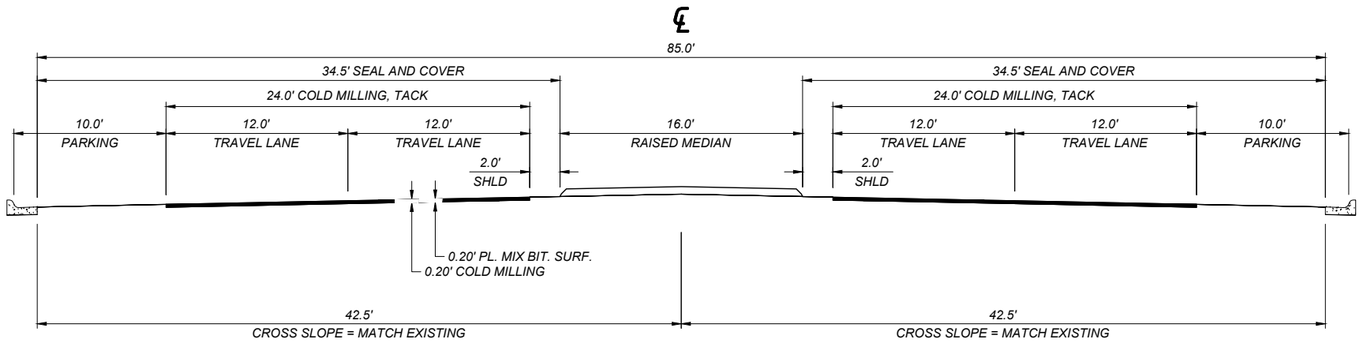
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80+10.68 TO 81+23.68 THEN TO TYP. NO. 6

TYPICAL SECTION NO. 7

MAINLINE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		COLD MILLING
	COVER	PLANT MIX		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		9.60	square yards PER STATION	767	533	533
cubic yards PER STATION		35.6	tons PER STATION	1.37		
tons PER STATION		68.6	gals. PER STATION		27	
square yards PER STATION	767					

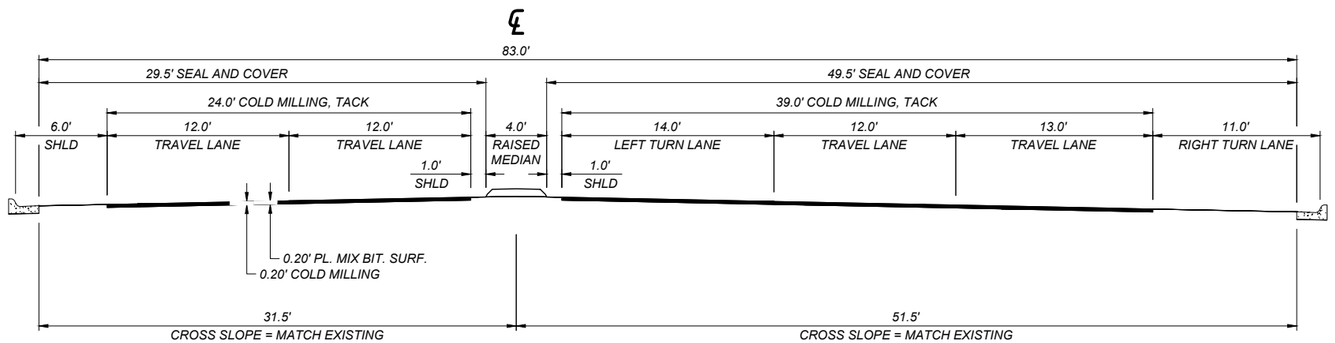
*BASED ON 1 APPLICATION

95+14.16 TO 96+93.42

96+93.42 TO 98+47.13 TRANS. TYP. NO. 8 TO TYP. NO. 9 (INTERSECTION M.O.C.)

TYPICAL SECTION NO. 8

MAINLINE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		COLD MILLING
	COVER	PLANT MIX		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		12.60	square yards PER STATION	878	700	700
cubic yards PER STATION		46.7	tons PER STATION	1.57		
tons PER STATION		90.0	gals. PER STATION		35	
square yards PER STATION	878					

*BASED ON 1 APPLICATION

SHEET NO. 06

TYPICAL SECTIONS

PROJECT NAME N 7TH AVENUE - BOZEMAN

COUNTY GALLATIN

PROJECT ID NH 118-1(7)0

UPN 9477000

DESIGNED BY	10/2024
MSU DESIGN	
REVIEWED BY	11/2024
J. FLEMING	
CHECKED BY	01/2025
J. SOLIDAY	

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MONTANA Department of Transportation

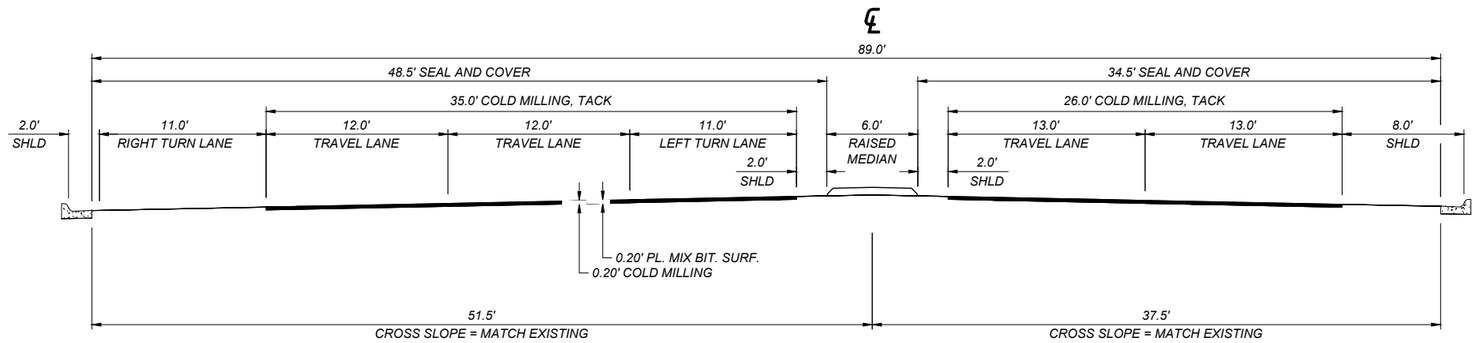
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98+47.13 TO 99+92.45
99+92.45 TO 101+43.30 TRANS. TYP. NO. 9 TO TYP. NO. 10

TYPICAL SECTION NO. 9

MAINLINE



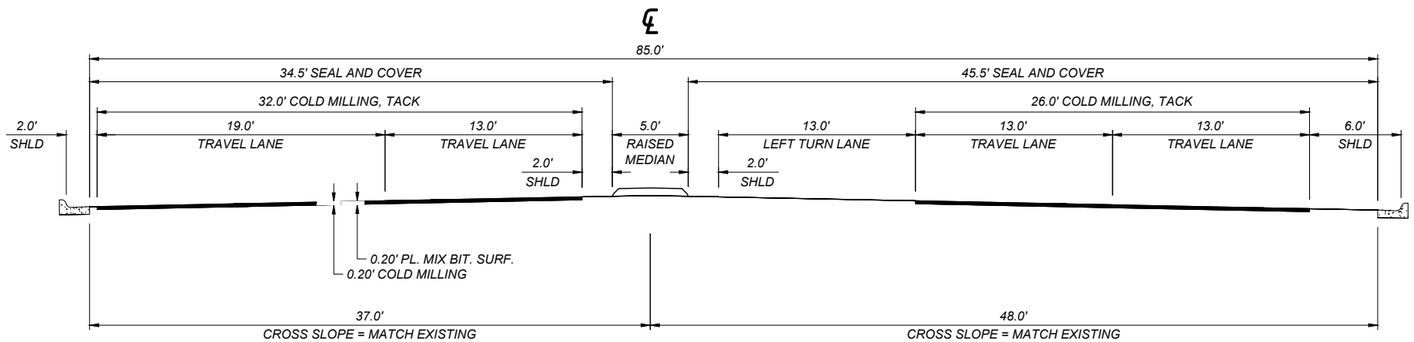
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		COLD MILLING
	COVER	PLANT MIX		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		12.20	square yards PER STATION	922	678	678
cubic yards PER STATION		45.2	tons PER STATION	1.65		
tons PER STATION		87.1	gals. PER STATION		34	
square yards PER STATION	922					

*BASED ON 1 APPLICATION

101+43.30 ONLY, THEN TO TYP. NO. 11

TYPICAL SECTION NO. 10

MAINLINE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		COLD MILLING
	COVER	PLANT MIX		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		11.60	square yards PER STATION	889	644	644
cubic yards PER STATION		43.0	tons PER STATION	1.59		
tons PER STATION		82.9	gals. PER STATION		32	
square yards PER STATION	889					

*BASED ON 1 APPLICATION

SHEET NO. 07

TYPICAL SECTIONS

PROJECT NAME N 7TH AVENUE - BOZEMAN
COUNTY GALLATIN
PROJECT ID NH 118-1(7)0
UPN 9477000

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MONTANA Department of Transportation

ROAD PLANS

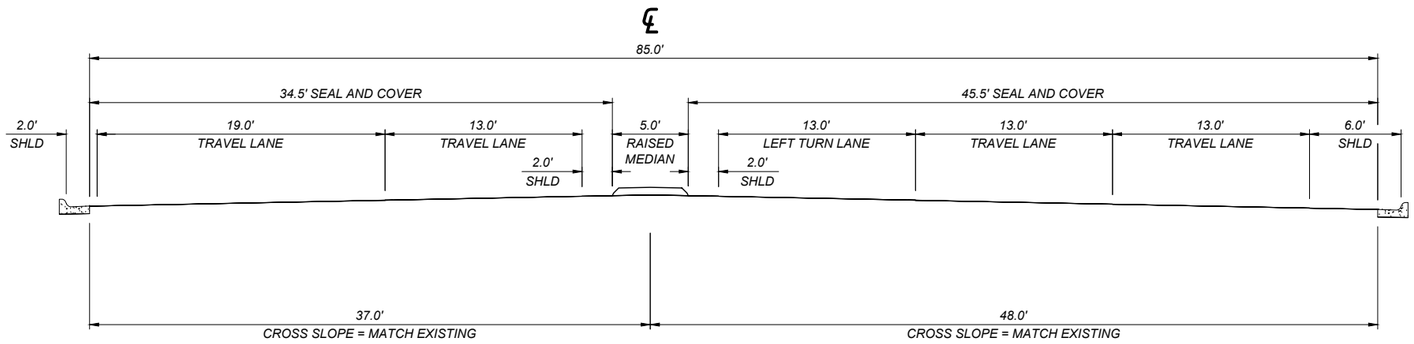
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TYPICAL SECTION NO. 11

MAINLINE

101+43.30 TO 102+05.32
102+05.32 TO 103+50.61 TRANS. TYP. NO. 11 TO TYP. NO. 12

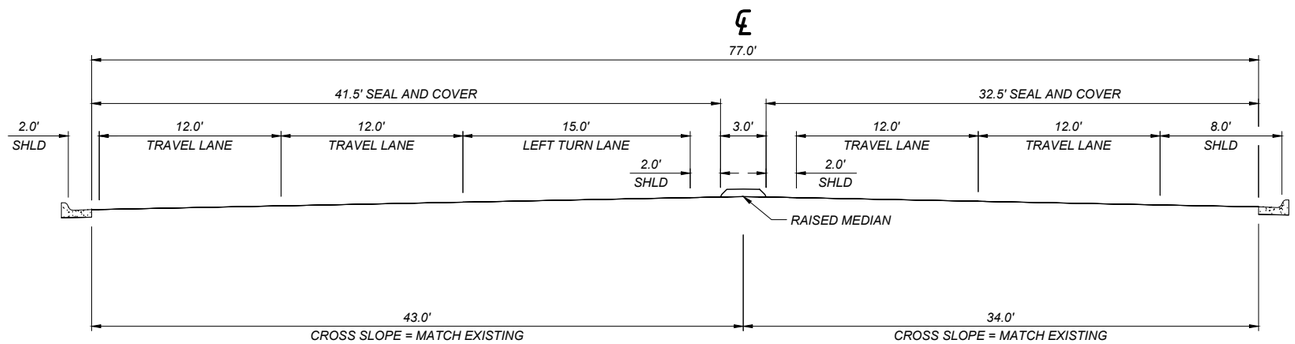


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	889	square yards PER STATION	889
		tons PER STATION	1.59

TYPICAL SECTION NO. 12

MAINLINE

103+50.61 TO 105+18.07
105+18.07 TO 106+65.41 TRANS. TYP. NO. 12 TO TYP. NO. 13



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	822	square yards PER STATION	822
		tons PER STATION	1.47

SHEET NO. 08

TYPICAL SECTIONS

PROJECT NAME N 7TH AVENUE - BOZEMAN
COUNTY GALLATIN
PROJECT ID NH 118-1(7)0
UPN 9477000

DESIGNED BY MSU DESIGN 10/2024
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MONTANA Department of Transportation

ROAD PLANS

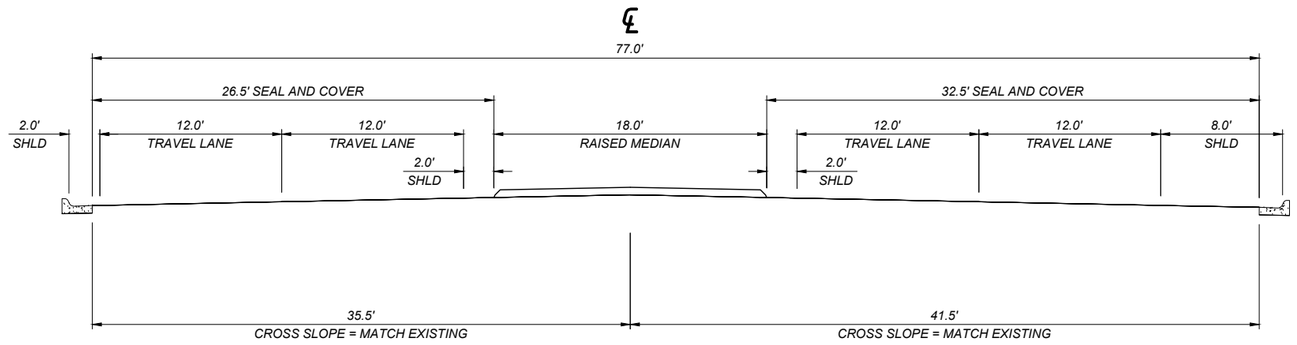
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TYPICAL SECTION NO. 13

MAINLINE

106+65.41 TO 107+10.70
107+10.70 TO 107+78.81 TRANS. TYP. NO. 13 TO TYP. NO. 14

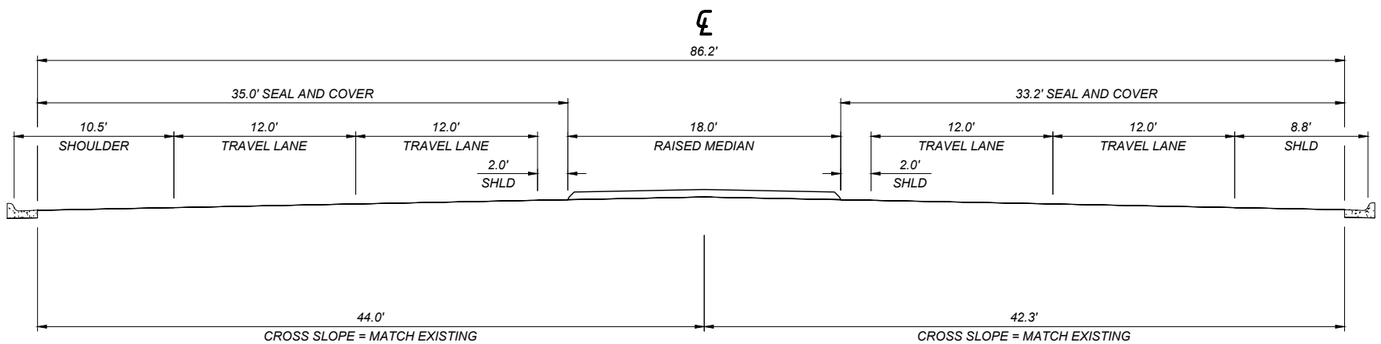


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	656	square yards PER STATION	656
		tons PER STATION	1.17

TYPICAL SECTION NO. 14

MAINLINE

107+78.81 ONLY
107+78.81 TO 109+21.00 TRANS. TYP. NO. 14 TO TYP. NO. 15



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	758	square yards PER STATION	758
		tons PER STATION	1.35

SHEET NO. 09

TYPICAL SECTIONS

PROJECT NAME N 7TH AVENUE - BOZEMAN
COUNTY GALLATIN
PROJECT ID NH 118-1(7)0
UPN 9477000

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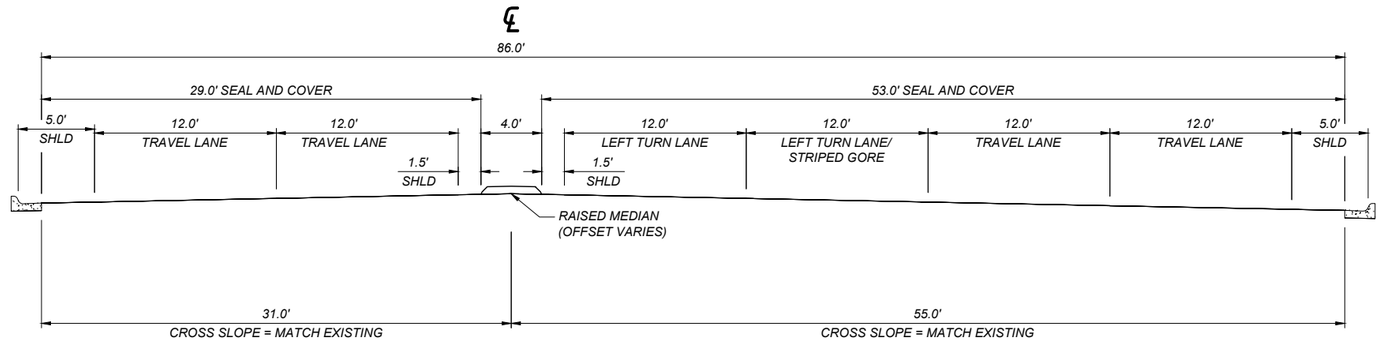
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TYPICAL SECTION NO. 15

MAINLINE

109+21.00 TO 111+21.20 B.E.
113+81.54 B.E. TO 116+05.58
116+05.58 TO 117+89.78 TRANS. TYP. NO. 15 TO TYP. NO. 16

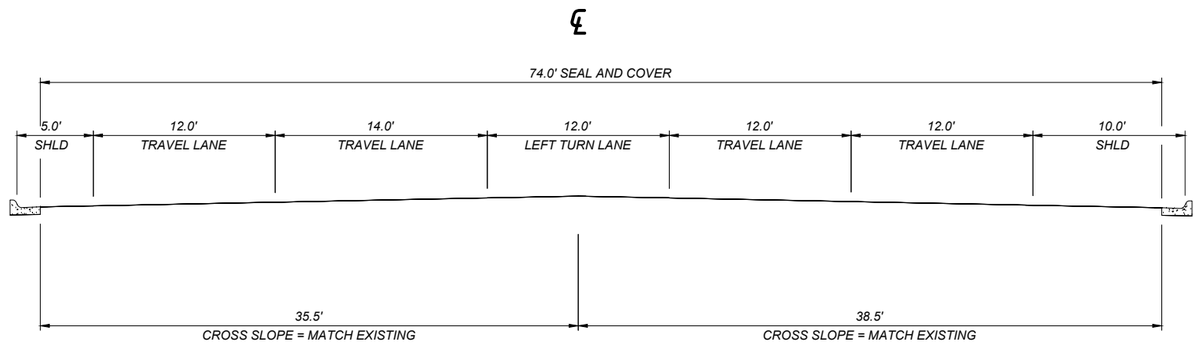


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	911	square yards PER STATION	911
		tons PER STATION	1.63

TYPICAL SECTION NO. 16

MAINLINE

117+89.78 ONLY
117+89.78 TO 119+16.55 TRANS. TYP. NO. 16 TO TYP. NO. 17



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
square yards PER STATION	822	square yards PER STATION	822
		tons PER STATION	1.47

SHEET NO. 10

TYPICAL SECTIONS

PROJECT NAME N 7TH AVENUE - BOZEMAN
COUNTY GALLATIN
PROJECT ID NH 118-1(7)0
UPN 9477000

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MONTANA Department of Transportation

ROAD PLANS

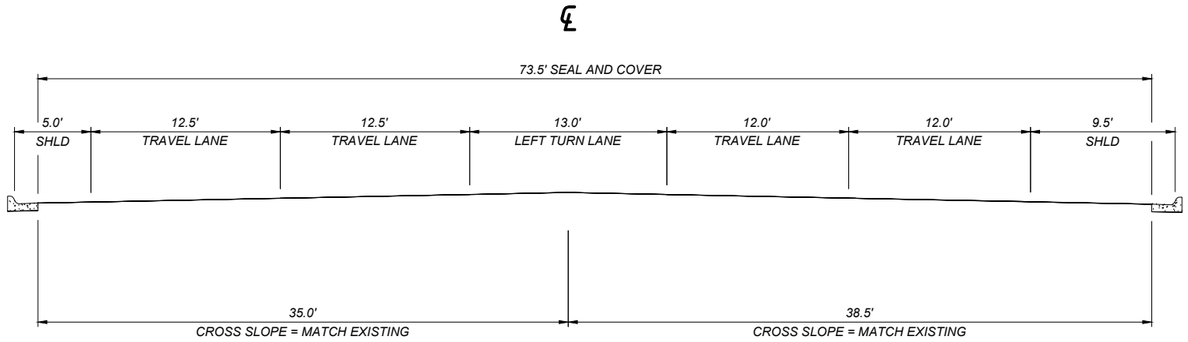
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119+16.55 TO 119+68.87 END PROJECT

TYPICAL SECTION NO. 17

MAINLINE



QUANTITIES			
	AGGREGATE		BITUMINOUS MATERIAL
UNIT	COVER	UNIT	EMULSIFIED ASPHALT SEAL
square yards PER STATION	817	square yards PER STATION	817
		tons PER STATION	1.46

SHEET NO. 11

TYPICAL SECTIONS

PROJECT NAME **N 7TH AVENUE - BOZEMAN**

COUNTY **GALLATIN**

PROJECT ID **NH 118-1(7)0**

UPN **9477000**

DESIGNED BY MSU DESIGN 10/2024

REVIEWED BY J. FLEMING 11/2024

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ROAD PLANS

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE II	AGGREGATE tons PLANT MIX BIT. SURF. COMMERCIAL PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards COLD MILLING 0.20 ft	REMARKS
48+34.00	50+50.00	216.00	216.00				1,272		2.3			TYP. NO. 1
50+50.00	53+05.00	255.00	255.00				1,502	193	2.7	74	1,502	TYP. NO. 2
53+05.00	57+58.70	453.70	453.70				2,672		4.8			TYP. NO. 1
57+58.70	58+38.44	79.74	79.74				541		1.0			TRANS. TYP. NO. 1 TO TYP. NO. 3
58+38.44	60+93.19	254.75	254.75				1,954		3.5			TRANS. TYP. NO. 3 TO TYP. NO. 4
60+93.19	65+06.74	413.55	413.55				3,172		5.7			TYP. NO. 4
65+06.74	66+05.67	98.93	98.93				828		1.5			TRANS. TYP. NO. 4 TO TYP. NO. 5
66+05.67	68+39.00	233.33	233.33				2,114		3.8			TYP. NO. 5
68+39.00	72+59.99	420.99	420.99				3,865	382	6.9	150	2,973	TYP. NO. 6*
72+59.99	76+15.47	355.48	355.48				2,727		4.9			TYP. NO. 4
76+15.47	77+12.70	97.23	97.23				813		1.5			TRANS. TYP. NO. 4 TO TYP. NO. 5
77+12.70	79+13.72	201.02	201.02				1,821		3.3			TYP. NO. 5
79+13.72	80+10.68	96.96	96.96				811		1.4			TRANS. TYP. NO. 5 TO TYP. NO. 4
80+10.68	81+23.68	113.00	113.00				867	78	1.5	31	602	TYP. NO. 7
81+23.68	84+00.00	276.32	276.32				2,563	254	4.6	100	1,978	TYP. NO. 6*
84+00.00	93+76.66	976.66	976.66				8,849		15.8			TYP. NO. 5
93+76.66	95+14.16	137.50	137.50				1,246	123	2.2	48	954	TYP. NO. 6
95+14.16	96+93.42	179.26	179.26				1,574	161	2.8	63	1,255	TYP. NO. 8
96+93.42	98+47.13	153.71	153.71				1,485	149	2.7	58	1,161	TRANS. TYP. NO. 8 TO TYP. NO. 9*
98+47.13	99+92.45	145.32	145.32				1,340	127	2.4	49	985	TYP. NO. 9
99+92.45	101+43.30	150.85	150.85				1,366	128	2.4	50	997	TRANS. TYP. NO. 9 TO TYP. NO. 10
101+43.30	102+05.32	62.02	62.02				551		1.0			TYP. NO. 11
102+05.32	103+50.61	145.29	145.29				1,243		2.2			TRANS. TYP. NO. 11 TO TYP. NO. 12
103+50.61	105+18.07	167.46	167.46				1,377		2.5			TYP. NO. 12
105+18.07	106+65.41	147.34	147.34				1,089		1.9			TRANS. TYP. NO. 12 TO TYP. NO. 13
106+65.41	107+10.70	45.29	45.29				297		0.5			TYP. NO. 13
107+10.70	107+78.81	68.11	68.11				482		0.9			TRANS. TYP. NO. 13 TO TYP. NO. 14
107+78.81	109+21.00	142.19	142.19				1,187		2.1			TRANS. TYP. NO. 14 TO TYP. NO. 15
109+21.00												
111+21.20 B.E.	113+81.54 B.E.				260.34							
	116+05.58	684.58	424.24				3,865		6.9			TYP. NO. 15
116+05.58	117+89.78	184.20	184.20				1,596		2.9			TRANS. TYP. NO. 15 TO TYP. NO. 16
117+89.78	119+16.55	126.77	126.77				1,039		1.9			TRANS. TYP. NO. 16 TO TYP. NO. 17
119+16.55	119+68.87	52.32	52.32				427		0.8			TYP. NO. 17
						ADDITIONAL SURFACING		89		32		
TOTAL		7,134.87	6,874.53	~	260.34		56,535	1,684	101.3	655	12,407	

*INTERSECTION M.O.C. - SEE DETAIL

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE II	AGGREGATE tons PLANT MIX BIT. SURF. COMMERCIAL PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards COLD MILLING 0.20 ft	REMARKS
104+63.00 RT	105+83.00 RT	120.00	120.00			PAVEMENT REMOVAL		67		24		PAVEMENT REMOVAL - RT (SEE DETAIL)
104+63.00 LT	105+03.00 LT	40.00	40.00			PAVEMENT REMOVAL		22		8		PAVEMENT REMOVAL - LT (SEE DETAIL)
SUBTOTAL		~	~	~	~		~	89	~	32	~	

BITUMINOUS PAVEMENT REMOVAL

STATION FROM	STATION TO	sq. yards BITUMINOUS PAVEMENT REMOVAL	REMARKS
104+63.00	105+83.00	213	SEE PAVEMENT REMOVAL DETAIL
TOTAL		213	

CRACK SEALING *

STATION FROM	STATION TO	TRANSVERSE & LONGITUDINAL CRACK SEALING CRACK SEALING NEW pounds	CRACK SEALING NEW linear feet	CRACK FILLING - MASTIC NEW pounds	CRACK FILLING - MASTIC NEW linear feet	REMARKS
48+34.00	119+68.87	3,518	7,035	5,976	3,984	
TOTAL		3,518	#	5,976	#	

* SEE DETAIL SHEET
# FOR INFORMATION ONLY

SHEET NO. 12

SUMMARIES

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY: MSU DESIGN 10/2024
REVIEWED BY: J. FLEMING 11/2024
CHECKED BY: J. SOLIDAY 01/2025
9477000RDSUM001.DWG

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

MANHOLES IN PLACE

STATION	each ADJUST MANHOLE*		REMARKS
	LEFT	RIGHT	
51+72.36		1	1.12' RT - SANITARY
70+55.21	1		7.18' LT - SANITARY
SUBTOTAL	1	1	
TOTAL	2		

FUNDING - 100% STATE COST SHARE
* CONCRETE APRON - SEE DETAILED DRAWINGS (INCLUDE APRON IN COST OF ADJUSTMENT)

WATER VALVE BOXES

STATION	each ADJUST VALVE BOX*		REMARKS
	LEFT	RIGHT	
70+31.74	1		21.90' LT
70+42.01	1		19.07' LT
70+90.35	1		25.92' LT
81+66.34	1		26.36' LT
81+81.65	1		23.46' LT
82+00.24	1		28.09' LT
96+98.67	1		27.66' LT
97+28.70	1		27.76' LT
97+95.82	1		29.45' LT
SUBTOTAL	9	~	
TOTAL	9		

FUNDING - 100% STATE COST SHARE
* CONCRETE APRON - SEE DETAILED DRAWINGS (INCLUDE APRON IN COST OF ADJUSTMENT)

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	102		102
STRIPING - YELLOW PAINT	gallon	56		56
WORDS & SYMBOLS - WHITE PAINT	gallon	92		92
STRIPING - WHITE EPOXY	gallon		136	136
STRIPING - YELLOW EPOXY	gallon		74	74
WORDS & SYMBOLS - WHITE EPOXY	gallon		122	122
CURB MARKING - YELLOW EPOXY	gallon		257	257
TEMPORARY STRIPING	linear feet			7,328
FINAL SWEEP AND BROOM	course mile			2.6

BASED ON 1 APPLICATION.

SUMMARIES

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY	
MSU DESIGN	10/2024
REVIEWED BY	
J. FLEMING	11/2024
CHECKED BY	
J. SOLIDAY	01/2025

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

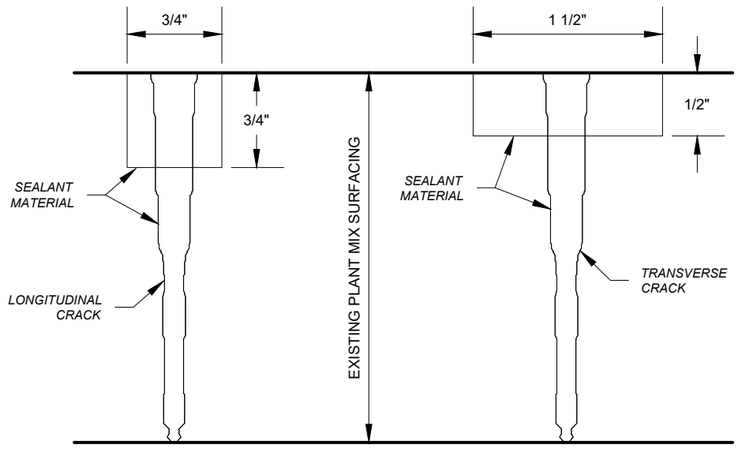
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DETAIL

CRACKS 1/8" TO 1 1/2" WIDE

LONGITUDINAL CRACK

ROUT 3/4" WIDE x 3/4" DEEP
PRIOR TO APPLYING SEALANT

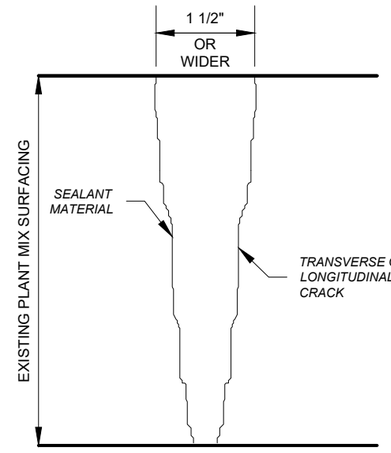


TRANSVERSE CRACK

ROUT 1 1/2" WIDE x 1/2" DEEP
PRIOR TO APPLYING SEALANT

CRACKS 1 1/2" OR WIDER
MASTIC REQUIRED

LEAVE EXISTING CRACK SEAL IN PLACE



SHEET NO.
14

CRACK SEALING DETAIL (NO SCALE)

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY		DATE
MSU DESIGN		10/2024
REVIEWED BY		DATE
J. FLEMING		11/2024
CHECKED BY		DATE
J. SOLIDAY		01/2025

MONTANA
Department of Transportation

ROAD PLANS

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48+04

50+00

W MAIN ST.

BOA 48+04.02

PI 50+00.00

W MENDENHALL ST.

PI 51+75.30

STA:51+72.36
OFF:1.12'RT
EX. M.H. - SANITARY
ADJUST

STA:50+50.00
BEGIN MILL/OVERLAY

STA:53+05.00
END MILL/OVERLAY

N 7TH AVE.

MILLING LIMITS
N 7TH AVE. & W MENDENHALL ST.

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70+00

DURSTON RD.

PI 70+60.34

STA:70+55.21
OFF:7.18'LT
EX. M.H. - SANITARY
ADJUST

STA:70+42.01
OFF:19.07'LT
EX. VALVE BOX - WATER
ADJUST

STA:70+31.74
OFF:21.90'LT
EX. VALVE BOX - WATER
ADJUST

STA:70+90.35
OFF:25.92'LT
EX. VALVE BOX - WATER
ADJUST

STA:68+39.00
BEGIN MILL/OVERLAY

STA:72+59.99
END MILL/OVERLAY

N 7TH AVE.

W PEACH ST.

MILLING LIMITS
N 7TH AVE. & W PEACH ST.

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SHEET NO. 15

MILLING LIMITS DETAIL (NO SCALE)

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY	DATE
MSU DESIGN	10/2024
REVIEWED BY	11/2024
CHECKED BY	01/2025
J. SOLIDAY	9477000RDDET002.DWG

MONTANA
Department of Transportation

ROAD PLANS

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80+00

STA:81+81.65
OFF:23.46'LT
EX. VALVE BOX - WATER
ADJUST

STA:82+00.24
OFF:28.09'LT
EX. VALVE BOX - WATER
ADJUST

STA:81+66.34
OFF:26.36'LT
EX. VALVE BOX - WATER
ADJUST

PI 81+69.94

W JUNIPER ST.

STA:80+10.68
BEGIN MILL/OVERLAY

STA:84+00.00
END MILL/OVERLAY

N 7TH AVE.

W TAMARACK ST.

MILLING LIMITS
N 7TH AVE. & W TAMARACK ST.

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W BIRCH ST.

STA:97+28.70
OFF:27.76'LT
EX. VALVE BOX - WATER
ADJUST

STA:97+95.82
OFF:29.45'LT
EX. VALVE BOX - WATER
ADJUST

STA:96+98.67
OFF:27.66'LT
EX. VALVE BOX - WATER
ADJUST

PI 97+66.65

N 7TH AVE.

STA:93+76.66
BEGIN MILL/OVERLAY

W OAK ST.

MILLING LIMITS
N 7TH AVE. & W OAK ST.
(CONTINUES ON NEXT SHEET)

SHEET NO. 16

MILLING LIMITS DETAIL (NO SCALE)

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY	10/2024	MSU DESIGN	
REVIEWED BY	11/2024	J. FLEMING	
CHECKED BY	01/2025	J. SOLIDAY	
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Department of Transportation

ROAD PLANS

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SHEET NO. 17

MILLING LIMITS DETAIL (NO SCALE)

MONTANA
Department of Transportation

ROAD PLANS

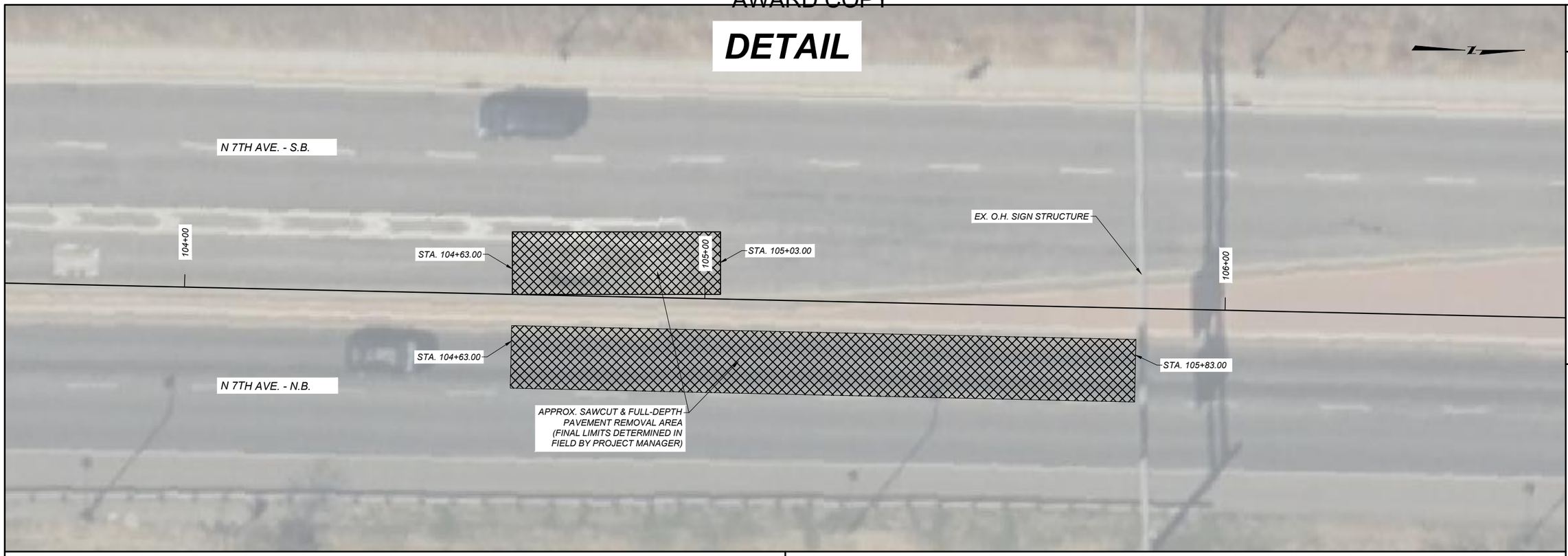
DESIGNED BY	
MSU DESIGN	10/2024
REVIEWED BY	
J. FLEMING	11/2024
CHECKED BY	
J. SOLIDAY	01/2025

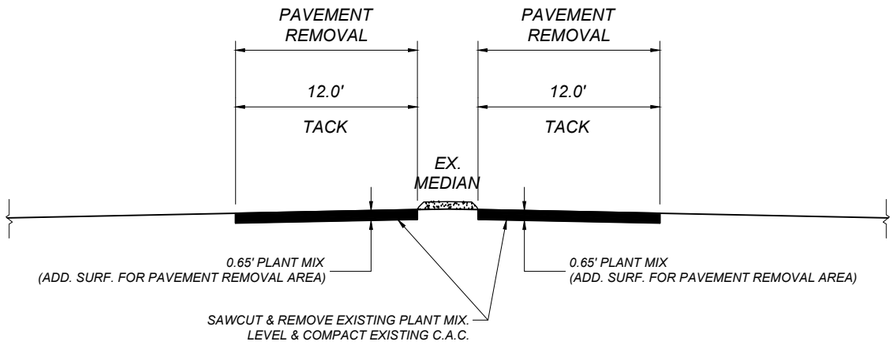
PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

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DETAIL





PAVEMENT REMOVAL TYPICAL SECTION
(STA. 104+63.00 RT TO 105+83.00 RT)
(STA. 104+63.00 LT TO 105+03.00 LT)

TOTAL QUANTITIES

UNIT	AGGREGATE PLANT MIX	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT TACK *
SQ. YDS.	213	SQ. YDS.	639
CU. YDS.	46.2	TONS	
TONS	89	GALS.	32

* BASED ON 3 APPLICATIONS

SHEET NO. 18

PAVEMENT REMOVAL DETAIL (NO SCALE)

PROJECT NAME: N 7TH AVENUE - BOZEMAN
COUNTY: GALLATIN
PROJECT ID: NH 118-1(7)0
UPN: 9477000

DESIGNED BY: MSU DESIGN 10/2024
REVIEWED BY: J. FLEMING 11/2024
CHECKED BY: J. SOLIDAY 01/2025

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ROAD PLANS

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