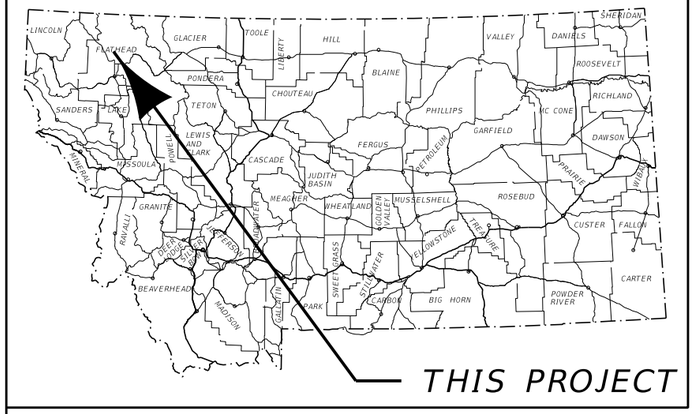
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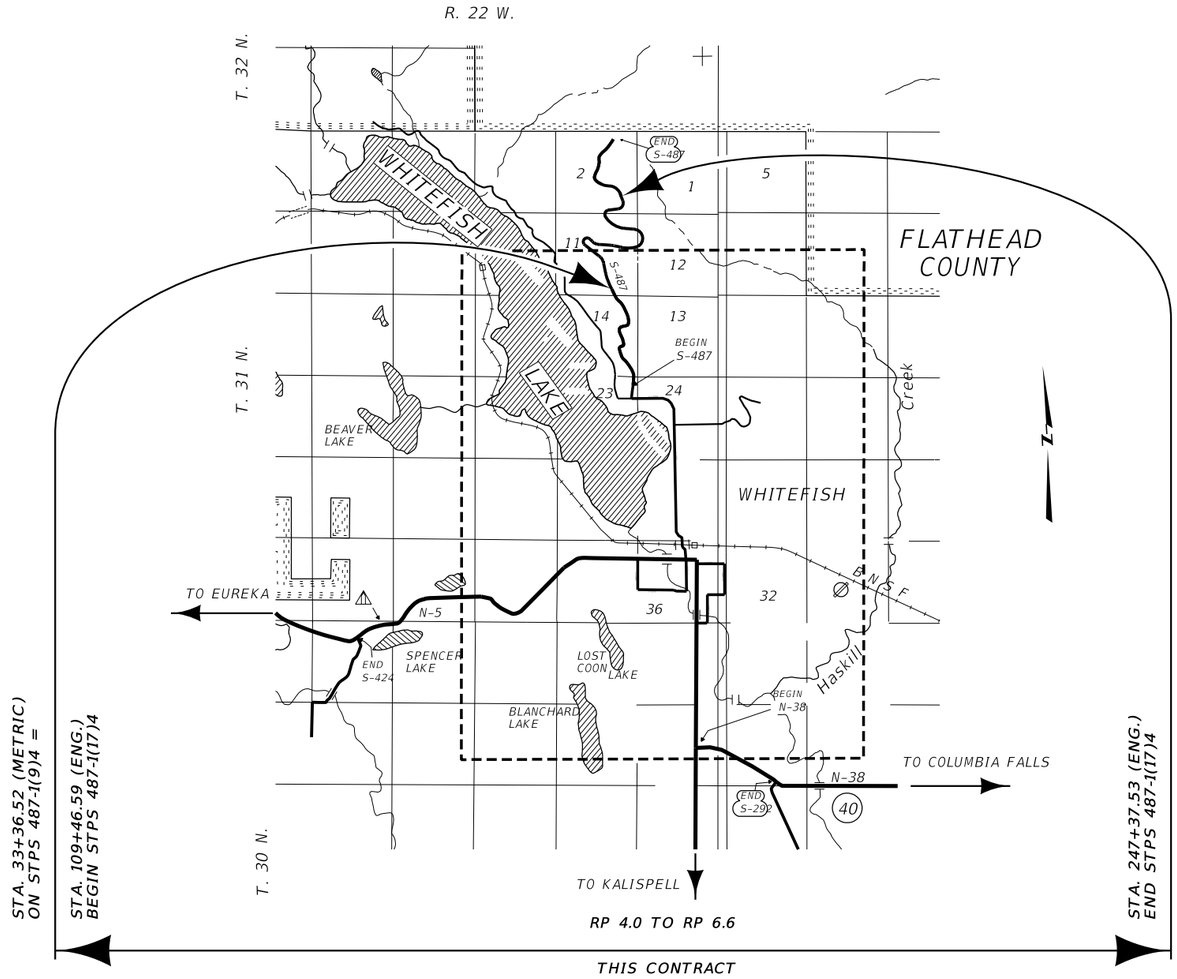

# MONTANA DEPARTMENT OF TRANSPORTATION

## FEDERAL AID PROJECT STPS 487-1(17)4
## OVERLAY, SEAL & COVER, AND DIGOUTS
## BIG MOUNTAIN ROAD
## FLATHEAD COUNTY

| DESIGN DATA | | |
|---|---|---|
| PRESENT | 2021 | A.D.T. = 1,680 |
| LETTING | 2022 | A.D.T. = 1,700 |
| DESIGN | 2042 | A.D.T. = 2,070 |
| | | D.H.V. = 240 |
| | | TRUCKS = 5.4 % |
| | | V. = 40 MPH |
| | | 18 KIP ESAL'S = 31 DAILY |
| | | GROWTH RATE = 1.0 % ANNUALLY |

LENGTH 2.6 MILES

SURFACING SOURCES -
CONTRACTOR FURNISHED




| ASSOCIATED PROJECT AGREEMENT NUMBERS | |
|---|---|
| R / W | |
| I.C. | |
| P. E. | STPS 487-1(16)4 |

MONTANA
DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:

HIGHWAYS
ENGINEER

MONTANA
DAMIAN KRINGS
12113PE
LICENSED PROFESSIONAL ENGINEER

DocuSigned by:
Damian Krings
1C71361CE866454...

7/6/2023
DATE

| | | | | | |
|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000rdtl001.dgn | DESIGNED BY A. MASON | 12/9/2022 | ROAD PLANS |
| 2 | | 5/3/2023 | REVIEWED BY | | UPN 9940000 |
| | | 8:55:36 AM CPS - U4191 | CHECKED BY JERRY SABOL | | |

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# NOTES

## BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

| | |
|---|---|
| COMP. AGGREGATE WEIGHT | = 3700 LBS. PER CUBIC YARD |
| COMP. WEIGHT OF PL. MIX BIT. SURF. | = 3855 LBS. PER CUBIC YARD |
| ASPHALT CEMENT - GRADE S - 1/2" AGG. | = 5.3% OF PL.MIX BIT.SURF. |
| HYDRATED LIME | = 1.4% OF PL.MIX BIT.SURF. |
| BITUMINOUS MATERIAL | = 8.5 LBS. PER GAL. |
| EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES) | = 0.05 GAL. PER SQ.YARD (UNDILUTED) |
| EMULSIFIED ASPHALT - FOG SEAL (S & C) | = 0.075 GAL. PER SQ.YARD (UNDILUTED) |
| SEAL | = 0.52 GAL. PER SQ.YARD |
| COVER | = 25 LBS. PER SQ.YARD |

## LIMITED ACCESS CONTROL

THIS PROJECT IS A LIMITED ACCESS CONTROL FACILITY. OBTAIN APPROVAL FROM THE CHIEF OF THE RIGHT-OF-WAY BUREAU PRIOR TO ADDING, DELETING OR RELOCATING ANY APPROACHES.

## 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.

## AS-BUILTS

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

STPS 487-1(9)4 RECONSTRUCTION (2008), METRIC

## HORIZONTAL ALIGNMENT

THE ALIGNMENT USED IN THESE PLANS IS BASED ON A METRIC TO ENGLISH CONVERSION OF THE ORIGINAL METRIC HORIZONTAL GEOMETRY FROM THE AS-BUILTS AND USING A BEST FIT OF THAT GEOMETRY TO THE LIMITED SURVEY DATA OBTAINED FOR THIS PROJECT. AS-BUILT PROJECT WAS CONSTRUCTED ON ASSUMED COORDINATES USING AN ASSUMED COMPASS BEARING ASSIGNED BETWEEN TWO ORIGINAL PROJECT CONTROL POINTS.

## CONSTRUCTION NOTES

USE EXTREME CARE WHEN WORKING AROUND CROSS DRAINS AT:

STA. 136+47 - 18" CAP DRAIN
STA. 180+43 - 24" CAP DRAIN

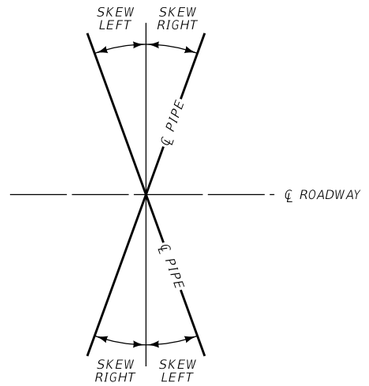
## SOILS INFORMATION

SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. THE LOCATION OF GEOTECHNICAL BORINGS IS SHOWN ON THE PLAN VIEW WITH THE FOLLOWING SYMBOL:

BORING NUMBER

(GEOTECHNICAL BORING)

## SKEW DIAGRAM




## APPROACHES (FOR INFORMATION ONLY)

| STATION | TYPE | linear feet | EXISTING SURFACING | feet | PROPOSED SURFACE | AGGREGATE | | | | BITUMINOUS MATERIAL | | | | sq. yards | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | sq. yards | | tons | cu. yards | tons | tons | gallons | gallons | | |
| | | LENGTH | | PMS THK. | | COVER TYPE 3 | PLANT MIX BIT. SURF. GR. S - 1/2" | PLANT MIX BIT. SURF. GR. S - MISC | SHOULDER GRAVEL | ASPHALT CEMENT PG 58V-34 | EMULSIFIED ASPHALT CHFRS-2P | EMULSIFIED ASPHALT TACK | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING | |
| 158+00 | FARM FIELD | 3.0 | GRAVEL | 0.15 | SEE DETAIL | | | 2.5 | 1 | 0.13 | | 1.6 | | | RT. |
| 164+62 | FARM FIELD | 3.0 | GRAVEL | 0.15 | SEE DETAIL | | | 2.5 | 1 | 0.13 | | 1.6 | | | LT. |
| SUBTOTAL | FARM FIELD | | | | | ~ | ~ | 5.0 | 2 | 0.26 | ~ | 3.2 | ~ | ~ | |
| 114+01 | PRIVATE | 3.0 | ASPHALT | 0.15 | SEE DETAIL | | | 2.5 | | 0.13 | | 1.6 | | 21 | RT. |
| 122+05 | PRIVATE | 3.0 | ASPHALT | 0.15 | SEE DETAIL | | | 2.5 | | 0.13 | | 1.6 | | 21 | LT. |
| 137+31 | PRIVATE | 3.0 | ASPHALT | 0.15 | SEE DETAIL | | | 2.5 | | 0.13 | | 1.6 | | 21 | LT. |
| 145+00 | PRIVATE | 3.0 | ASPHALT | 0.15 | SEE DETAIL | | | 2.5 | | 0.13 | | 1.6 | | 21 | RT. |
| 183+07 | PRIVATE | 3.0 | ASPHALT | 0.15 | SEE DETAIL | | | 2.5 | | 0.13 | | 1.6 | | 21 | RT. |
| 195+18 | PRIVATE | 3.0 | ASPHALT | 0.15 | SEE DETAIL | | | 2.5 | | 0.13 | | 1.6 | | 21 | RT., MT. LORNI RD. |
| 195+18 | PRIVATE | 3.0 | GRAVEL | 0.15 | SEE DETAIL | | | 2.5 | 1 | 0.13 | | 1.6 | | | LT. |
| 221+13 | PRIVATE | 3.0 | ASPHALT | 0.15 | SEE DETAIL | | | 2.5 | | 0.13 | | 1.6 | | 21 | LT., EAGLES NEST LN. |
| SUBTOTAL | PRIVATE | | | | | ~ | ~ | 20.0 | 1 | 1.04 | ~ | 12.8 | ~ | 147 | |
| 164+62 | PUBLIC | 25.0 | ASPHALT | 0.15 | SEE DETAIL | 96.5 | 9.3 | | | 0.49 | 0.2 | 4.8 | 7.2 | 28 | RT., TAMARACK LN. |
| 196+70 | PUBLIC | 25.0 | ASPHALT | 0.15 | SEE DETAIL | 96.5 | 9.3 | | | 0.49 | 0.2 | 4.8 | 7.2 | 28 | RT., BIG MOUNTAIN TRAILHEAD |
| 217+19 | PUBLIC | 25.0 | ASPHALT | 0.15 | SEE DETAIL | 96.5 | 9.3 | | | 0.49 | 0.2 | 4.8 | 7.2 | 28 | LT., HOLBROOK OVERLOOK TRAILHEAD |
| 226+84 | PUBLIC | 25.0 | ASPHALT | 0.15 | SEE DETAIL | 96.5 | 9.3 | | | 0.49 | 0.2 | 4.8 | 7.2 | 28 | LT., ELK HIGHLANDS DR. |
| 243+11 | PUBLIC | | ASPHALT | | SEE DETAIL | SEE DETAIL | | | | | | | | SEE DETAIL | LT., SUNRISE CT. |
| 243+11 | PUBLIC | | ASPHALT | | SEE DETAIL | SEE DETAIL | | | | | | | | SEE DETAIL | RT., GLADES DR. |
| SUBTOTAL | PUBLIC | | | | | 386.0 | 37.2 | ~ | ~ | 1.96 | 0.8 | 19.2 | 28.8 | 112 | |

## BIG MOUNTAIN ROAD CENTERLINE ALIGNMENT COORDINATE TABLE

| STATION | DESCRIPTION | N OR Y COORDINATE | E OR X COORDINATE | REMARKS |
|---|---|---|---|---|
| 109+46.59 | POT | 1,570,863.399 | 790,906.406 | BEGIN PROJECT/ALIGNMENT |
| 109+90.91 | PC | 1,570,903.754 | 790,888.094 | |
| 115+39.29 | PI | 1,571,403.122 | 790,661.485 | |
| 120+80.04 | CS | 1,571,946.339 | 790,586.411 | |
| 122+11.27 | ST | 1,572,076.534 | 790,569.953 | |
| 127+68.09 | TS | 1,572,629.353 | 790,503.327 | |
| 129+48.54 | SC | 1,572,806.987 | 790,472.678 | |
| 130+77.02 | PI | 1,572,936.062 | 790,466.362 | |
| 131+85.64 | CS | 1,573,016.591 | 790,365.290 | |
| 133+66.08 | ST | 1,573,145.236 | 790,239.022 | |
| 138+09.70 | PC | 1,573,445.608 | 789,912.564 | |
| 139+10.80 | PI | 1,573,514.058 | 789,838.170 | |
| 140+11.88 | PT | 1,573,584.021 | 789,765.197 | |
| 144+65.32 | TS | 1,573,897.827 | 789,437.893 | |
| 146+12.95 | SC | 1,574,009.676 | 789,342.430 | |
| NO PI | | | | CURVE Δ > 180° |
| 152+56.38 | CS | 1,574,340.385 | 789,683.614 | |
| 154+04.02 | ST | 1,574,241.482 | 789,792.432 | |
| 155+37.13 | TS | 1,574,142.569 | 789,881.518 | |
| 157+17.58 | SC | 1,574,014.940 | 790,008.813 | |
| 158+37.38 | PI | 1,573,919.468 | 790,082.453 | |
| 159+39.39 | CS | 1,573,909.795 | 790,202.637 | |
| 161+19.83 | ST | 1,573,872.679 | 790,379.033 | |
| 167+16.59 | TS | 1,573,779.683 | 790,968.496 | |
| 168+47.82 | SC | 1,573,757.794 | 791,097.885 | |
| 169+26.93 | PI | 1,573,746.903 | 791,176.274 | |
| 170+05.48 | CS | 1,573,721.883 | 791,251.357 | |
| 171+36.71 | ST | 1,573,684.092 | 791,377.025 | |
| 174+89.64 | TS | 1,573,578.706 | 791,713.848 | |
| 176+20.87 | SC | 1,573,540.915 | 791,839.516 | |
| 178+67.31 | PI | 1,573,465.931 | 792,074.290 | |
| 181+76.40 | PT | 1,573,469.800 | 792,388.615 | |
| 181+76.41 | TS | 1,573,469.800 | 792,388.627 | |
| 186+35.73 | SC | 1,573,534.266 | 792,840.288 | |
| 246+05.41 | PI | 1,573,548.933 | 798,817.142 | |
| 200+57.36 | CS | 1,574,636.013 | 792,802.756 | |
| 202+37.80 | ST | 1,574,677.324 | 792,627.295 | |
| 207+40.38 | TS | 1,574,767.456 | 792,132.870 | |
| 208+71.61 | SC | 1,574,792.709 | 792,004.098 | |
| 215+06.20 | PI | 1,574,904.799 | 791,379.468 | |
| 221+30.30 | PT | 1,575,490.126 | 790,993.312 | |
| 221+30.31 | TS | 1,575,490.131 | 790,993.319 | |
| 224+41.99 | SC | 1,575,773.553 | 790,874.359 | |
| 227+99.47 | PI | 1,576,048.693 | 790,624.826 | |
| 228+05.69 | CS | 1,576,047.494 | 791,073.149 | |
| 229+53.33 | ST | 1,576,064.299 | 791,219.366 | |
| 234+92.35 | PC | 1,576,078.443 | 791,758.199 | |
| 240+06.52 | PI | 1,576,091.934 | 792,272.191 | |
| 242+14.65 | PT | 1,576,584.621 | 792,125.120 | |
| 245+17.58 | PC | 1,576,874.898 | 792,038.470 | |
| 246+08.81 | PI | 1,576,962.316 | 792,012.375 | |
| 246+99.91 | PT | 1,577,051.774 | 791,994.477 | |
| 247+37.53 | POT | 1,577,088.659 | 791,987.097 | END PROJECT |
| 248+04.66 | POT | 1,577,154.488 | 791,973.927 | END ALIGNMENT |

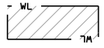
GPK NAME: JOB940.GPK CHAIN NAME: BIG_MTN_XML PROFILE: N/A

PROFILES FOR DIGOUT SECTIONS ARE TO MATCH EXISTING PTW (SEE SPECIAL PROVISIONS)

# NOTES

## WETLANDS

WETLANDS EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND THE PROJECT LIMITS. WETLAND AREAS AND PERMANENT WETLAND IMPACT AREAS WITHIN THE PROJECT LIMITS HAVE BEEN DELINEATED AND ARE SHOWN ON THE PLANS. ANY ACTION IMPACTING WETLAND AREAS OUTSIDE OF THE PERMANENT IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR.




DELINEATED WETLAND AREAS

## WETLAND DELINEATION TABLE

| WETLAND DESIGNATION | STATION | | WETLAND AREA (acres) | | REMARKS |
|---|---|---|---|---|---|
| | FROM | TO | DELINEATED AREA | PERMANENT IMPACTED AREA | |
| WL-7 | 128+15 | 129+25 | 0.017 | | RT. |
| WL-6 | 129+52 | 131+91 | 0.083 | | RT. |
| WL-5 | 132+03 | 136+22 | 0.110 | | RT. |
| WL-4 | 136+42 | 141+18 | 0.084 | | RT. |
| WL-3 | 141+59 | 142+09 | 0.004 | | RT. |
| WL-2 | 142+47 | 144+65 | 0.032 | | RT. |
| WL-1 | 168+90 | 170+51 | 0.038 | | LT. |
| | | | | | |
| | | | | | |
| TOTAL | | | 0.37 | ~ | |

# LINEAR AND LEVEL DATA

| | | |
|---|---|---|
| LENGTH OF ROADWAY | 2 LANE - RURAL | 13,790.94 ft |
| TOTAL LENGTH OF | STPS 487-1(17)4 | 13,790.94 ft |

## BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

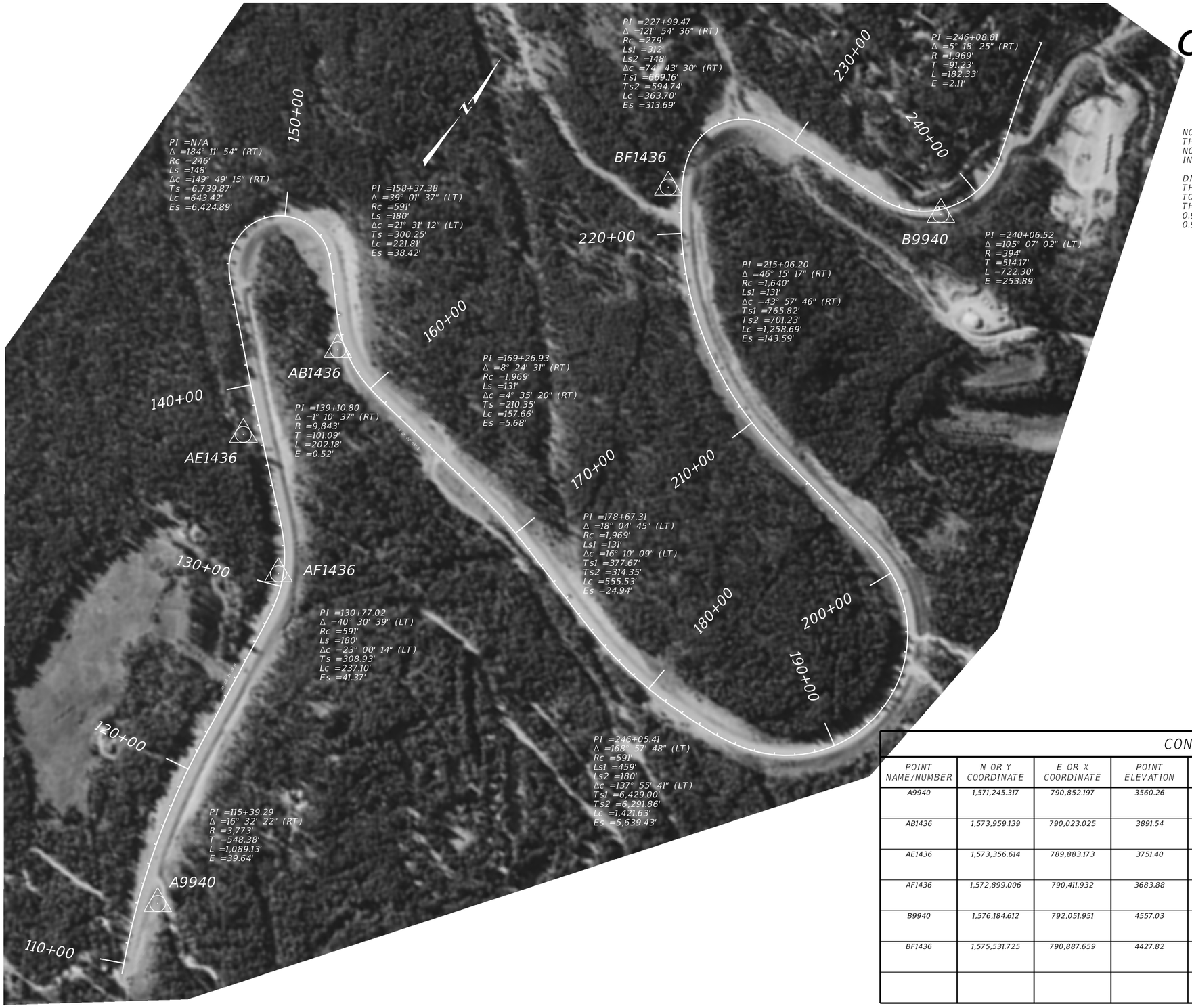
## LEVEL DATUM SOURCE

GNSS DERIVED ELEVATIONS USING (NAVD88) GEOID 18 AND HOLDING OPUS SOLUTIONS AT A9940, AB1436, AND B9940

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# CONTROL DIAGRAM

NO SCALE




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:
0.99954010 FROM A9940 TO AB1436
0.99951581 FROM AB1436 TO B9940

## CONTROL ABSTRACT

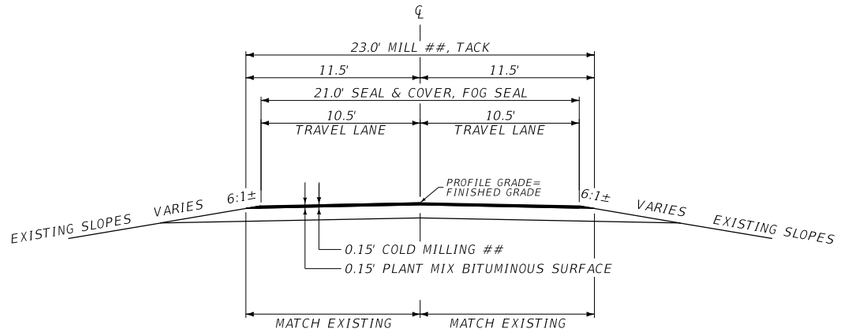
| POINT NAME/NUMBER | N OR Y COORDINATE | E OR X COORDINATE | POINT ELEVATION | LOCATION AND DESCRIPTION |
|---|---|---|---|---|
| A9940 | 1,571,245.317 | 790,852.197 | 3560.26 | BIG MOUNTAIN ROAD MP 4.06, 100.0' RT OF CENTERLINE, 6.0' WEST OF PAVED APPROACH. SET STANDARD 2" MDT CONTROL AC, STAMPED "A9940 2022", MDT WITNESS POST WITH DECAL BEARS EAST 1.0'. |
| AB1436 | 1,573,959.139 | 790,023.025 | 3891.54 | BIG MOUNTAIN ROAD MP 4.90, 8.0' RT OF GUARDRAIL, 35.0' WEST OF AN APPROACH. FOUND STANDARD 2" MDT CONTROL AC, STAMPED "AB1436", MDT WITNESS POST WITH DECAL BEARS 2.0' SOUTH. |
| AE1436 | 1,573,356.614 | 789,883.173 | 3751.40 | BIG MOUNTAIN ROAD MP 4.53, 78.0' LT OF CENTERLINE, 32.0' WEST OF AN APPROACH AND AT TOP OF CUT SECTION. FOUND STANDARD 2" MDT CONTROL AC, STAMPED "AE1436", MDT WITNESS POST WITH DECAL BEARS 2.0' SOUTH. |
| AF1436 | 1,572,899.006 | 790,411.932 | 3683.88 | BIG MOUNTAIN ROAD MP 4.39, 5.0' LT OF GUARDRAIL. FOUND STANDARD 2" MDT CONTROL AC, STAMPED "AF1436", MDT WITNESS POST WITH DECAL BEARS 3.0' SOUTH. |
| B9940 | 1,576,184.612 | 792,051.951 | 4557.03 | BIG MOUNTAIN ROAD MP 6.39, 22.0' RT OF CENTERLINE, 6.0' BEHIND GUARDRAIL. SET STANDARD 2" MDT CONTROL AC, STAMPED "B9940 2022", MDT WITNESS POST WITH DECAL BEARS SOUTHEAST 1.0'. |
| BF1436 | 1,575,531.725 | 790,887.659 | 4427.82 | BIG MOUNTAIN ROAD MP 6.14, 70.0' LT OF CENTERLINE, 90.0' NORTH OF EAGLES NEST LANE. FOUND STANDARD 2" MDT CONTROL AC, STAMPED "BF1436", MDT WITNESS POST WITH DECAL BEARS 1.0' WEST. |
| | | | | |

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# TYPICAL SECTION NO. 1

STA. 109+46.59 ONLY, BEGIN PROJECT CONNECTION
STA. 109+46.59 TO STA. 110+10.89 TRANSITION TYP. NO. 1 TO TYP. NO. 2

## – LONGITUDINAL TAPER MILL STA. 109+46.59 TO 111+46.59 FROM 0.15' TO 0.0' DEPTH (SEE DETAIL)




**QUANTITIES**

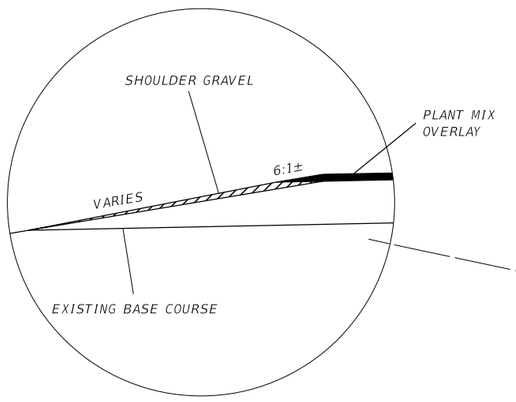
| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING |
| AREA square feet | | 3.30 | | square yards PER STATION | | 233 | 256 | 233 | 256 ## |
| cubic yards PER STATION | | 12.2 | N/A | tons PER STATION | 1.25 | 0.51 | | | |
| tons PER STATION | | 23.5 | | gallons PER STATION | | | 13 | 17 | |
| square yards PER STATION | 233 | | | | | | | | |

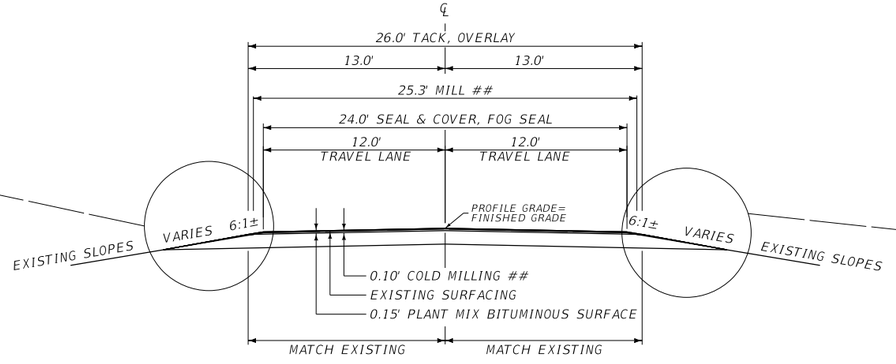
* BASED ON 1 APPLICATIONS

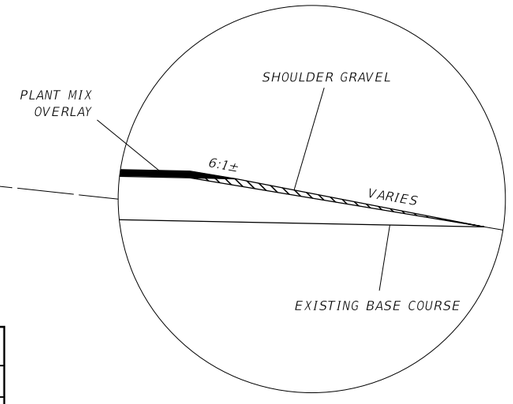
# TYPICAL SECTION NO. 2

STA. 110+10.89 ONLY
STA. 110+10.89 TO STA. 113+59.97 TRANSITION TYP. NO. 2 TO TYP. NO. 3

## – LONGITUDINAL TAPER MILL STA. 109+46.59 TO 111+46.59 FROM 0.15' TO 0.0' DEPTH (SEE DETAIL)




**QUANTITIES**

| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING |
| AREA square feet | | 3.75 | | square yards PER STATION | | 267 | 289 | 267 | 281 ## |
| cubic yards PER STATION | | 13.9 | 1.1 | tons PER STATION | 1.42 | 0.59 | | | |
| tons PER STATION | | 26.8 | | gallons PER STATION | | | 14 | 20 | |
| square yards PER STATION | 267 | | | | | | | | |

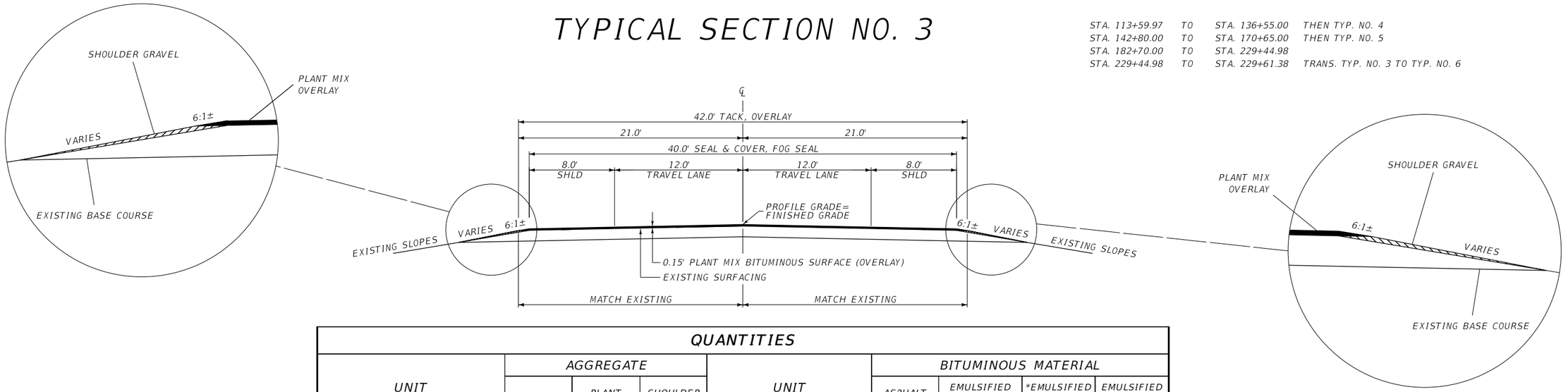
* BASED ON 1 APPLICATIONS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000rdtyp001.dgn | DESIGNED BY A. MASON | 10/11/2022 | ROAD PLANS | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| 2 | | 5/3/2023 | REVIEWED BY | | | | |
| | | 8:56:17 AM CPS - U419 | CHECKED BY | | FLATHEAD COUNTY | UPN 9940000 | 05 |

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# TYPICAL SECTION NO. 3

STA. 113+59.97 TO STA. 136+55.00 THEN TYP. NO. 4
STA. 142+80.00 TO STA. 170+65.00 THEN TYP. NO. 5
STA. 182+70.00 TO STA. 229+44.98
STA. 229+44.98 TO STA. 229+61.38 TRANS. TYP. NO. 3 TO TYP. NO. 6



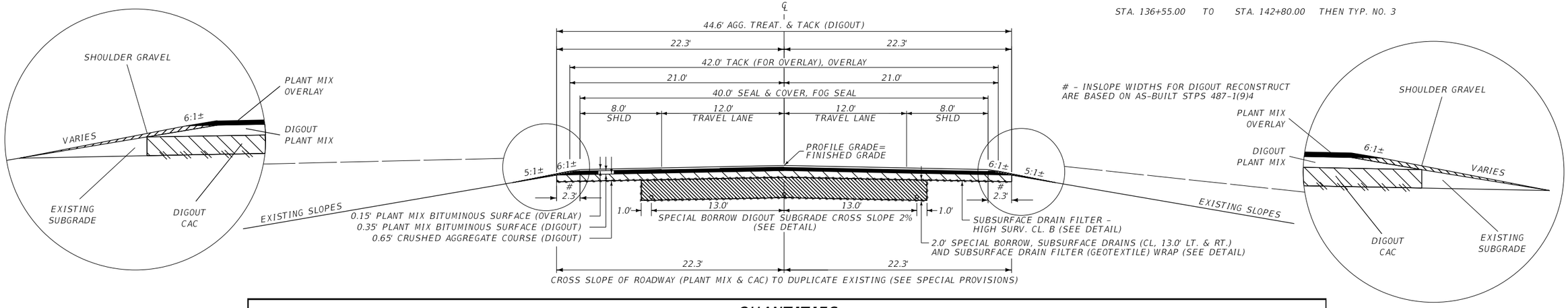

## QUANTITIES

| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | |
|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL |
| AREA square feet | | 6.15 | | square yards PER STATION | | 444 | 467 | 444 |
| cubic yards PER STATION | | 22.8 | 3.7 | tons PER STATION | 2.33 | 0.98 | | |
| tons PER STATION | | 43.9 | | gallons PER STATION | | | 23 | 33 |
| square yards PER STATION | 444 | | | | | | | |

* BASED ON 1 APPLICATIONS

# TYPICAL SECTION NO. 4

STA. 136+55.00 TO STA. 142+80.00 THEN TYP. NO. 3




## QUANTITIES

| UNIT | AGGREGATE | | | | | | UNIT | BITUMINOUS MATERIAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX (OVERLAY) | PLANT MIX (DIGOUT) | PLANT MIX (TOTAL) | CR. AGG. COURSE | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | AGG. TREAT |
| AREA square feet | | 6.15 | 14.81 | | 28.99 | | square yards PER STATION | | 444 | 1,459 | 444 | 496 |
| cubic yards PER STATION | | 22.8 | 54.9 | | 107.4 | 3.7 | tons PER STATION | 7.94 | 0.98 | | | |
| tons PER STATION | | 43.9 | 105.8 | 149.7 | | | gallons PER STATION | | | 73 | 33 | |
| square yards PER STATION | 444 | | | | | | | | | | | |

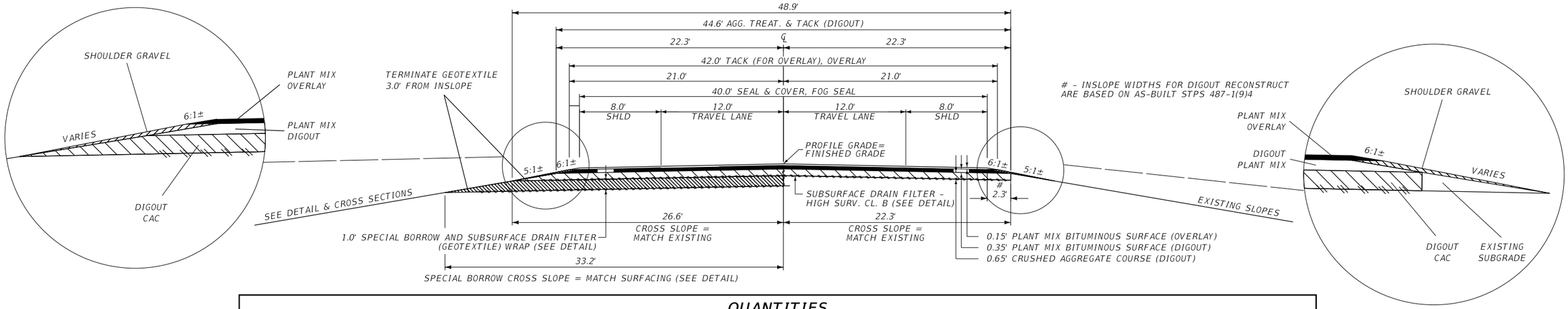
* BASED ON 2 APPLICATIONS FOR DIGOUT AND 1 APPLICATION FOR OVERLAY

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 / 1 | MONTANA Department of Transportation | C:\DGN\9940000rdtyp001.dgn | DESIGNED BY A. MASON | 10/11/2022 | ROAD PLANS | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | | 5/3/2023 | REVIEWED BY | | | |
| | | 8:56:24 AM CPS - U419 | CHECKED BY | | FLATHEAD COUNTY | UPN 9940000 / 06 |

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# TYPICAL SECTION NO. 5

STA. 170+65.00 TO STA. 182+70.00 THEN TYP. NO. 3



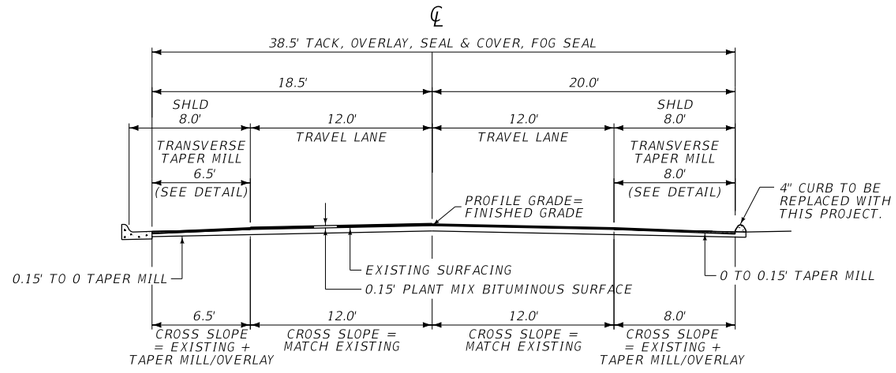

## QUANTITIES

| UNIT | AGGREGATE | | | | | | UNIT | BITUMINOUS MATERIAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX (OVERLAY) | PLANT MIX (DIGOUT) | PLANT MIX (TOTAL) | CR. AGG. COURSE | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | AGG. TREAT |
| AREA square feet | | 6.15 | 14.81 | | 30.39 | | square yards PER STATION | | 444 | 1,459 | 444 | 496 |
| cubic yards PER STATION | | 22.8 | 54.9 | | 112.6 | 3.7 | tons PER STATION | 7.94 | 0.98 | | | |
| tons PER STATION | | 43.9 | 105.8 | 149.7 | | | gallons PER STATION | | | 73 | 33 | |
| square yards PER STATION | 444 | | | | | | | | | | | |

* BASED ON 2 APPLICATIONS FOR DIGOUT AND 1 APPLICATION FOR OVERLAY

# TYPICAL SECTION NO. 6

STA. 229+61.38 TO STA. 237+99.47 THEN TYP. NO. 7




## QUANTITIES

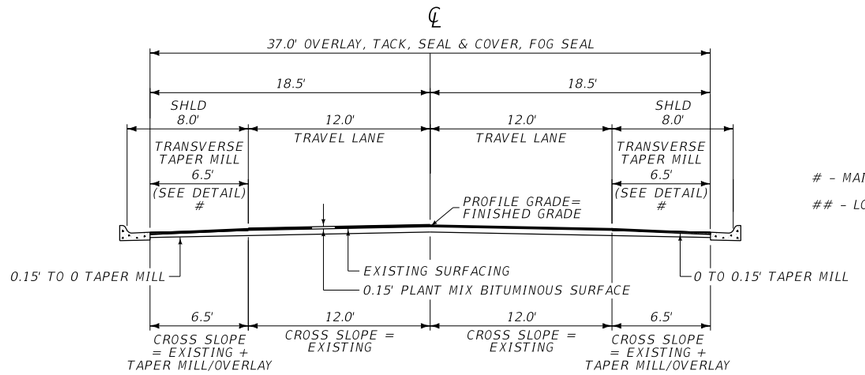
| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING |
| AREA square feet | | 5.78 | | square yards PER STATION | | 428 | 428 | 428 | 161 |
| cubic yards PER STATION | | 21.4 | N/A | tons PER STATION | 2.18 | 0.95 | | | |
| tons PER STATION | | 41.2 | | gallons PER STATION | | | 21 | 32 | |
| square yards PER STATION | 428 | | | | | | | | |

* BASED ON 1 APPLICATIONS

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# TYPICAL SECTION NO. 7

STA. 237+99.47 TO STA. 244+09.45
STA. 244+09.45 TO STA. 246+06.30 TRANS. TYP. NO. 7 TO TYP. NO. 8




# - MAINTAIN 6.5' TRANSVERSE TAPER MILL ACROSS PUBLIC APPROACHES AT STA. 243+11 LT. & RT.

## - LONGITUDINAL TAPER CONNECTION STA. 244+09.45 TO 246+06.30 FROM 0.0' TO 0.15' (SEE DETAIL)

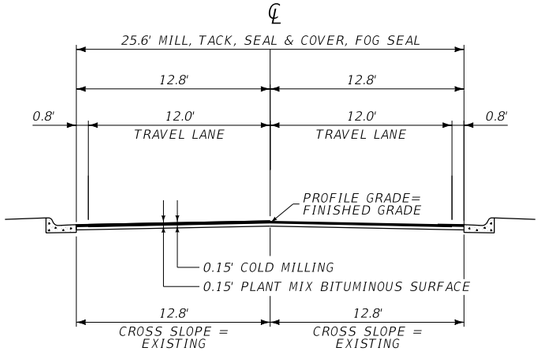
**QUANTITIES**

| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING ## |
| AREA square feet | | 5.55 | | square yards PER STATION | | 411 | 411 | 411 | 144 |
| cubic yards PER STATION | | 20.6 | N/A | tons PER STATION | 2.10 | 0.91 | | | |
| tons PER STATION | | 39.7 | | gallons PER STATION | | | 21 | 31 | |
| square yards PER STATION | 411 | | | | | | | | |

* BASED ON 1 APPLICATIONS

# TYPICAL SECTION NO. 8

STA. 246+06.30 ONLY, THEN TYP. NO. 9




**QUANTITIES**

| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING |
| AREA square feet | | 3.84 | | square yards PER STATION | | 284 | 284 | 284 | 284 |
| cubic yards PER STATION | | 14.2 | N/A | tons PER STATION | 1.45 | 0.63 | | | |
| tons PER STATION | | 27.4 | | gallons PER STATION | | | 14 | 21 | |
| square yards PER STATION | 284 | | | | | | | | |

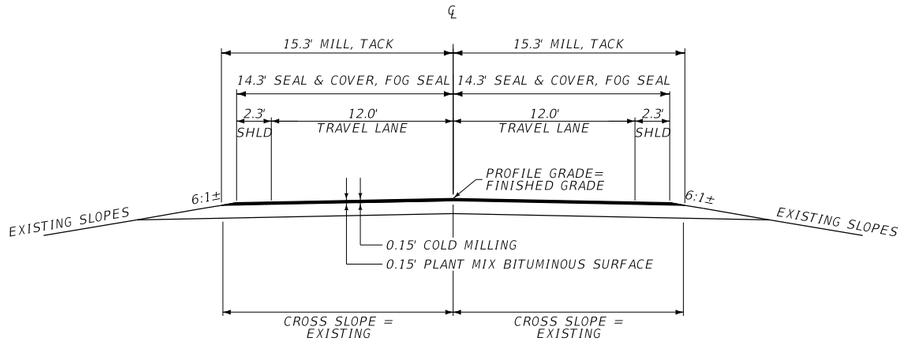
* BASED ON 1 APPLICATIONS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000rdtyp002.dgn | DESIGNED BY A. MASON | 10/11/2022 | ROAD PLANS | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| 2 | | 5/3/2023 | REVIEWED BY | | | | |
| | | 8:56:43 AM CPS - U419 | CHECKED BY | | FLATHEAD COUNTY | UPN 9940000 | 08 |

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# TYPICAL SECTION NO. 9

STA. 246+06.30 ONLY
STA. 246+06.30 TO STA. 247+37.53 TRANS. TYP. NO. 9 TO TYP. NO. 10

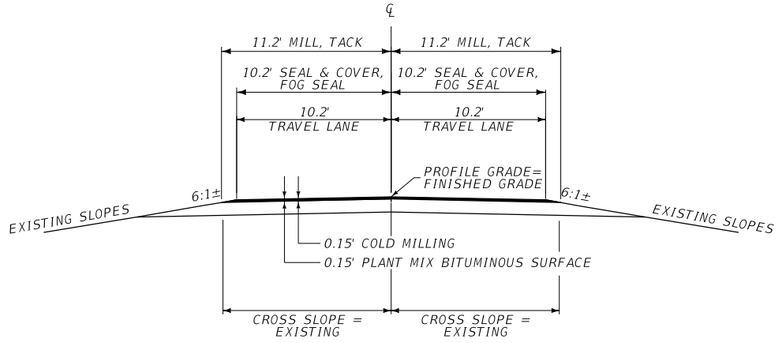



| QUANTITIES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | | |
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING |
| AREA square feet | | 4.44 | | square yards PER STATION | | 318 | 340 | 318 | 340 |
| cubic yards PER STATION | | 16.4 | N/A | tons PER STATION | 1.67 | 0.70 | | | |
| tons PER STATION | | 31.6 | | gallons PER STATION | | | 17 | 24 | |
| square yards PER STATION | 318 | | | | | | | | |

* BASED ON 1 APPLICATIONS

# TYPICAL SECTION NO. 10

STA. 247+37.53 ONLY, END OF PROJECT CONNECTION




| QUANTITIES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| UNIT | AGGREGATE | | | UNIT | BITUMINOUS MATERIAL | | | | |
| | COVER | PLANT MIX | SHOULDER GRAVEL | | ASPHALT CEMENT | EMULSIFIED ASPHALT - SEAL | *EMULSIFIED ASPHALT TACK COAT | EMULSIFIED ASPHALT FOG SEAL | COLD MILLING |
| AREA square feet | | 3.21 | | square yards PER STATION | | 227 | 249 | 227 | 249 |
| cubic yards PER STATION | | 11.9 | N/A | tons PER STATION | 1.21 | 0.50 | | | |
| tons PER STATION | | 22.9 | | gallons PER STATION | | | 12 | 17 | |
| square yards PER STATION | 227 | | | | | | | | |

* BASED ON 1 APPLICATIONS

AWARD COPY

# SUMMARY

## SURFACING

| STATION FROM | STATION TO | linear feet GROSS | linear feet NET | linear feet + | linear feet - | FOR | tons HYDRATED LIME | AGGREGATE sq. yards COVER TYPE 3 | AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 1/2" | AGGREGATE tons PLANT MIX BIT. SURF. GR. - MISC | AGGREGATE cu. yds. CRUSHED AGG. COURSE | AGGREGATE cu. yds. SHOULDER GRAVEL | BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 58V-34 | BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P | BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK | BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL | sq. yards AGGREGATE TREATMENT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109+46.59 | 110+10.89 | 64.30 | 64.30 | | | | | 161 | 16 | | | 1 | 0.9 | 0.4 | 9 | 12 | | TRANS. TYP. NO. 1 TO TYP. NO. 2 |
| 110+10.89 | 113+59.97 | 349.08 | 349.08 | | | | | 1,241 | 123 | | | 8 | 6.5 | 2.7 | 65 | 93 | | TRANS. TYP. NO. 2 TO TYP. NO. 3 |
| 113+59.97 | 136+55.00 | 2,295.03 | 2,295.03 | | | | | 10,190 | 1,008 | | | 85 | 53.5 | 22.5 | 528 | 757 | | TYP. NO. 3 |
| 136+55.00 | 142+80.00 | 625.00 | 625.00 | | | | | 2,775 | 936 | | 671 | 23 | 49.6 | 6.1 | 456 | 206 | 3,100 | TYP. NO. 4 |
| 142+80.00 | 170+65.00 | 2,785.00 | 2,785.00 | | | | | 12,365 | 1,223 | | | 103 | 64.9 | 27.3 | 641 | 919 | | TYP. NO. 3 |
| 170+65.00 | 182+70.00 | 1,205.00 | 1,205.00 | | | | | 5,350 | 1,804 | | 1,357 | 45 | 95.7 | 11.8 | 880 | 398 | 5,977 | TYP. NO. 5 |
| 182+70.00 | 229+44.98 | 4,674.98 | 4,674.98 | | | | | 20,757 | 2,052 | | | 173 | 108.9 | 45.8 | 1,075 | 1,543 | | TYP. NO. 3 |
| 229+44.98 | 229+61.38 | 16.40 | 16.40 | | | | | 72 | 7 | | | 1 | 0.4 | 0.2 | 4 | 5 | | TRANS. TYP. NO. 3 TO TYP. NO. 6 |
| 229+61.38 | 237+99.47 | 838.09 | 838.09 | | | | | 3,587 | 345 | | | | 18.3 | 8.0 | 176 | 268 | | TYP. NO. 6 |
| 237+99.47 | 244+09.45 | 609.98 | 609.98 | | | | | 2,507 | 242 | | | | 12.8 | 5.6 | 128 | 189 | | TYP. NO. 7 |
| 244+09.45 | 246+06.30 | 196.85 | 196.85 | | | | | 684 | 66 | | | | 3.5 | 1.5 | 34 | 51 | | TRANS. TYP. NO. 7 TO TYP. NO. 8 |
| 246+06.30 | 247+37.53 | 131.23 | 131.23 | | | | | 358 | 36 | | | | 1.9 | 0.8 | 19 | 27 | | TRANS. TYP. NO. 9 TO TYP. NO. 10 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | ADDITIONAL SURFACING | | 386 | 37 | 25 | | 3 | 3.3 | 0.8 | 35 | 29 | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| TOTAL | | 13,790.94 | 13,790.94 | ~ | ~ | | 111 | 60,433 | 7,895 | 25 | 2,028 | 442 | 420.2 | 133.5 | 4,050 | 4,497 | 9,077 | |

## ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

| STATION FROM | STATION TO | linear feet GROSS | linear feet NET | linear feet + | linear feet - | FOR | tons HYDRATED LIME | AGGREGATE sq. yards COVER TYPE 3 | AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 1/2" | AGGREGATE tons PLANT MIX BIT. SURF. GR. - MISC | AGGREGATE cu. yards CRUSHED AGG. COURSE | AGGREGATE cu. yards SHOULDER GRAVEL | BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 58V-34 | BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P | BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK | BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL | sq. yards AGGREGATE TREATMENT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2 - FARM FIELD APPROACHES | | | | 5 | | 2 | 0.3 | | 3 | | | |
| | | | | | | 8 - PRIVATE APPROACHES | | | | 20 | | 1 | 1.0 | | 13 | | | |
| | | | | | | 6 - PUBLIC APPROACHES | | 386 | 37 | | | | 2.0 | 0.8 | 19 | 29 | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| SUBTOTAL | | ~ | ~ | ~ | ~ | | ~ | 386 | 37 | 25 | ~ | 3 | 3.3 | 0.8 | 35 | 29 | ~ | |

## COLD MILLING *

| STATION FROM | STATION TO | sq. yards COLD MILLING 0 TO 0.15 FEET | sq. yards COLD MILLING 0.15 FEET | REMARKS |
|---|---|---|---|---|
| 109+46.59 | 111+46.59 | 567 | | LONGITUDINAL TAPER MILL CONNECTION |
| 229+61.38 | 237+99.47 | 1,349 | | LT. & RT. (CURB AND GUTTER LT./4" CURB RT.) TRANSVERSE TAPER MILL LT. 6.5 FT. WIDE, RT. 8.0 FT. WIDE |
| 237+99.47 | 242+55.00 | 329 | | RT., CURB AND GUTTER TRANSVERSE TAPER MILL - 6.5 FT. WIDE |
| 237+99.47 | 242+90.00 | 354 | | LT., CURB AND GUTTER TRANSVERSE TAPER MILL - 6.5 FT. WIDE |
| 242+55.00 | 243+50.00 | 69 | | RT., PUBLIC APPROACH AT STA. 243+11 RT. TAPER MILL - 6.5 FT. WIDE |
| 242+90.00 | 243+50.00 | 43 | | LT., PUBLIC APPROACH AT STA. 243+11 LT. TAPER MILL - 6.5 FT. WIDE |
| 243+50.00 | 244+09.45 | 86 | | LT. & RT., CURB AND GUTTER TRANSVERSE TAPER MILL - 6.5 FT. WIDE |
| 244+09.45 | 246+06.30 | 969 | | LT. & RT., CURB AND GUTTER TRANSVERSE TAPER MILL - 6.5 FT. WIDE AND LONGITUDINAL TAPER MILL CONNECTION. MILLING QUANTITY IS INCREASED TO ACCOUNT FOR BOTH TRANSVERSE AND LONGITUDINAL TAPER ACROSS SAME AREA. |
| 246+06.30 | 247+37.53 | | 386 | FULL DEPTH MILL/FILL CONNECTION |
| | | | | |
| 109+46.59 | 247+37.53 | 259 | | APPROACH MILLING (SEE NOTES SHEET - APPROACH TABLE) |
| | | | | |
| | | | | |
| | | | | |
| SUBTOTAL | | 4,025 | 386 | |
| TOTAL | | 4,411 | | |

* SEE DETAILS

## MANHOLES IN PLACE

| STATION | each ADJUST MANHOLE LEFT | each ADJUST MANHOLE RIGHT | REMARKS |
|---|---|---|---|
| 124+67.2 | | 1 # | SANITARY SEWER |
| 234+75.5 | | 1 | STORM DRAIN |
| | | | |
| | | | |
| | | | |
| SUBTOTAL | ~ | 2 | |
| TOTAL | 2 | | |

# FUNDING - 100% STATE SHARE

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# SUMMARY

## GUARDRAIL #

| STATION | | linear feet | | | | | | each | | | | linear feet | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | REMOVE GUARDRAIL | | MGS GUARDRAIL | | MGS GUARDRAIL ABOVE RETAINING WALL * | | MGS ONE-WAY DEPARTURE TERMINAL SECTION ## | | MASH W-BEAM TERMINAL SECTION | | EXISTING GUARDRAIL POST MOUNTED FENCE ** | | |
| FROM | TO | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | |
| 109+46.59 | 123+29.55 | !,411.5 | | 1,350.0 | | | | 1 | | ! | | | | LT., GUARDRAIL EXTENDS DOWN LT. SIDE OF PRIVATE APPROACH AT STA. 122+05 LT. (2 SHOP BENT SECTIONS: 2 @ 25.0' LONG W/ 25' RADIUS (APPROX.)) |
| 121+78.84 ** | 123+05.27 ** | | | | | | | | | | | 138.4 | | LT., FENCE MOUNTED ON GUARDRAIL ALONG LT. SIDE OF PRIVATE APPROACH AT STA. 122+05 LT. |
| | | | | | | | | | | | | | | |
| 122+20.80 | 136+38.26 | !,436.6 | | | | | | | | | | | | LT., BEGINS ON RT. SIDE OF PRIVATE APPROACH AT STA. 122+05 LT. |
| 122+20.80 | 126+14.65 | | | | | 412.5 | | 1 | | | | | | LT. (RETAINING WALL STA. 122+45 TO 126+00) (INCLUDES 1 SHOP BENT SECTION: 1 @ 25' LONG W/ 10' RADIUS (APPROX.)) |
| 122+32.36 ** | 126+08.52 ** | | | | | | | | | | | 374.4 | | LT., ABOVE RETAINING WALL |
| 126+14.65 | 136+38.26 | | | 962.5 | | | | | | ! | | | | LT. |
| | | | | | | | | | | | | | | |
| 142+90.89 | 150+31.47 | 779.3 | | | | | | | | | | | | LT. |
| 142+90.89 | 143+53.21 | | | 12.5 | | | | | | ! | | | | LT. |
| 143+53.21 | 149+22.18 | | | | | 600.0 | | | | | | | | LT. (RETAINING WALL STA. 143+60 TO 148+95) |
| 143+60.11 ** | 149+03.76 ** | | | | | | | | | | | 575.5 | | LT., ABOVE RETAINING WALL |
| 149+22.18 | 150+31.47 | | | 112.5 | | | | | | | | | | LT. |
| 150+31.47 | 153+60.00 | | | 300.0 | | | | | | ! | | | | LT. EXTENDING TOTAL GUARDRAIL RUN BY APPROX. 350 FT. TO MOVE TERMINAL SECTION OFF TIGHT RADIUS CURVE. NO GUARDRAIL OR TERMINAL SECTION EMBANKMENT WIDENING REQUIRED FOR THE NEW ADDITIONAL GUARDRAIL. |
| | | | | | | | | | | | | | | |
| 154+40.13 | 158+77.06 | | 465.3 | | 400.0 | | | | 1 | | 1 | | | RT., GUARDRAIL EXTENDS DOWN RT. SIDE OF FARM FIELD APPROACH AT STA. 158+00 RT. (2 SHOP BENT SECTIONS. 1 @ 25.0' LONG W/ 25' RADIUS, 1 @ 25.0' LONG W/ 130' RADIUS (APPROX.)) |
| 158+17.99 | 167+20.22 | | 986.5 | | 887.5 | | | | 2 | | | | | RT., GUARDRAIL BEGINS RT. SIDE OF FARM FIELD APPROACH AT STA 158+00 RT., AND ENDS DOWN RT. SIDE OF PUBLIC APPROACH AT STA. 164+62 (INCLUDES 3 SHOP BENT SECTIONS: 1 @ 25.0' LONG W/ 8' RADIUS, 1 @ 50.0' LONG W/ 50' RADIUS, 1 @ 100' LONG W/ 100' RADIUS (APPROX.)) |
| | | | | | | | | | | | | | | |
| 164+83.69 | 182+32.36 | | 1,788.7 | | | | | | | | | | | RT., GUARDRAIL BEGINS WITH SHOP BENT SECTION ON LT. SIDE OF PUBLIC APPROACH AT STA. 164+62 RT. |
| 164+83.69 | 167+66.00 | | | | 300.0 | | | | 1 | | | | | RT., (INCLUDES 1 SHOP BENT SECTION: 1 @ 37.5' LONG W/ 20' RADIUS) |
| 167+66.00 | 179+85.00 | | | | | | 1,225.0 | | | | | | | RT., (RETAINING WALL STA. 167+68 TO 179+78) |
| 167+73.23 ** | 179+77.62 ** | | | | | | | | | | | | 1,210.7 | RT., ABOVE RETAINING WALL |
| 179+85.00 | 182+32.36 | | | | 200.0 | | | | | | 1 | | | RT. |
| | | | | | | | | | | | | | | |
| 184+36.28 | 188+56.28 | | 439.5 | | 337.5 | | | | | | 2 | | | RT. |
| 201+53.70 | 206+94.07 | 539.6 | | 437.5 | | | | | | 2 | | | | LT. |
| 210+95.80 | 218+12.81 | 765.0 | | 700.0 | | | | 1 | | ! | | | | LT., GUARDRAIL EXTENDS DOWN LT. SIDE OF PUBLIC APPROACH AT STA. 217+19 LT. (INCLUDES 2 SHOP BENT SECTIONS: 2 @ 25.0' LONG W/ 25' RADIUS (APPROX.)) |
| 217+41.16 | 219+55.14 | 265.7 | | 200.0 | | | | 1 | | ! | | | | LT., GUARDRAIL BEGINS ON RT. SIDE OF PUBLIC APPROACH AT STA. 217+19 LT. (INCLUDES 1 SHOP BENT SECTION: 1 @ 50.0' LONG W/ 17' RADIUS (APPROX.)) |
| | | | | | | | | | | | | | | |
| 223+36.86 | 238+53.80 | | 1,502.2 | | | | | | | | | | | RT., STEEL POST RAIL WITH 4" CONCRETE CURB FROM STA. 229+61.38 TO 237+99.47 |
| 223+36.86 | 232+12.21 | | | | 787.5 | | | | | | 1 | | | RT. |
| 232+12.21 | 237+92.00 | | | | | | 600.0 | | | | | | | RT. (RETAINING WALL STA. 232+28 TO 237+86) |
| 237+92.00 | 238+53.80 | | | | 12.5 | | | | | | 1 | | | RT. |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| SUBTOTAL | | 5,197.7 | 5,182.2 | 4,075.0 | 2,925.0 | 1,012.5 | 1,825.0 | 4 | 4 | 8 | 6 | 1,088.3 | 1,210.7 | |
| TOTAL | | 10,379.8 | | 9,837.5 | | | | 8 | | 14 | | ~ | | |

# - ALL NEW GUARDRAIL INSTALLATIONS ARE STANDARD GALVANIIZED STEEL HARDWARE, AND INTENDED TO BE REPLACEMENT AT EXISTING GUARDRAIL LOCATIONS, WITH NECESSARY ACCOMODATIONS FOR UPDATE TO MGS GUARDRAIL. STATIONING DETERMINED BY EXISTING GUARDRAIL LOCATIONS, NOT LENGTH OF NE

## - ONE-WAY DEPARTURE SECTION TO BE INSTALLED MATCHING EXISTING LOCATION AS CLOSE AS POSSIBLE, SEE SPECIAL PROVISIONS.

* - FOR ALL GUARDRAIL DIRECTLY ABOVE EXISTING RETAINING WALLS, NEW MGS W-BEAM GUARDRAIL TO USE EXISTING WOOD POSTS LEFT IN PLACE, WITH NEW BLOCK-OUTS RAISED TO USE UPPER POST HOLE. SEE SPECIAL PROVISIONS.

** - FOR INFORMATION ONLY, FENCING BRACKET TO BE MODIFIED AS NEEDED WITH RAISING OF GUARDRAIL, INCLUDE IN COST OF MGS GUARDRAIL, SEE SPECIAL PROVISIONS.

## TEMPORARY BARRIER RAIL

| STATION | | linear feet | | each | | REMARKS |
|---|---|---|---|---|---|---|
| | | TEMP. BARRIER RAIL | RESET TEMP. BARRIER RAIL | TEMP. IMPACT ATTEN-UATOR | RESET TEMP. IMPACT ATTEN-UATOR | |
| FROM | TO | | | | | |
| 136+15.00 | 143+20.00 | 670 | 670 | 2 | 2 | DIGOUT 1, TYPICAL 4, SEE DETAIL. |
| 170+25.00 | 183+10.00 | 1,250 | 1,250 | 2 | 2 | DIGOUT 2, TYPICAL 5, SEE DETAIL. |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTAL | | 1,920 | 1,920 | 4 | 4 | |

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# SUMMARY

## DIGOUT EXCAVATION *

| STATION | | cu. yards | | linear feet | sq. yards | REMARKS |
|---|---|---|---|---|---|---|
| | | EXCAVATION - DIGOUTS | SPECIAL BORROW NEAT LINE | SUBSURFACE DRAIN PIPE - CORR POLYETHYLENE DR 4 IN | GEOTEXTILE SUBSURFACE DRAIN FILTER - HIGH SURV. CLASS B | |
| FROM | TO | | | | | |
| 136+55 | 142+80 | 2,355 | 1,288 | | 5,319 | DIGOUT 1: SEE DETAIL & TYP. NO. 4 |
| 136+64 | 142+72 | | | 1,915 | | OUTLET ALL DRAINS LT., ABANDON IN PLACE EXISTING OUTLET RT. |
| 170+65 | 182+70 | 3,855 | 1,329 | | 10,278 | DIGOUT 2: SEE DETAIL & TYP. NO. 5 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTAL | | 6,210 | 2,617 | 1,915 | 15,597 | |

* SEE DETAIL

## REVEGETATION

| STATION | | lump sum | REMARKS |
|---|---|---|---|
| | | REVEGETATION | |
| FROM | TO | | |
| 109+47 | 247+38 | 1 | |
| | | | |
| | | | |
| | | | |
| TOTAL | | 1 | |

## PAVEMENT MARKINGS

| ITEM | UNIT | INTERIM APPLICA-TION # | FINAL APPLICA-TION | TOTAL |
|---|---|---|---|---|
| STRIPING - WHITE PAINT | gallon | 190 | | 190 |
| STRIPING - YELLOW PAINT | gallon | 190 | | 190 |
| | | | | |
| STRIPING - WHITE EPOXY | gallon | | 127 | 127 |
| STRIPING - YELLOW EPOXY | gallon | | 127 | 127 |
| | | | | |
| TEMPORARY STRIPING | linear feet | | | 27,582 |
| | | | | |
| | | | | |

# BASED ON 2 APPLICATIONS.

## CURB

| STATION | | linear feet | | | | REMARKS |
|---|---|---|---|---|---|---|
| | | CURB 4 IN - CONCRETE | | REMOVE CURB # | | |
| FROM | TO | LEFT | RIGHT | LEFT | RIGHT | |
| 229+61.38 | 237+99.47 | | 860 | | 859.6 | REPLACE 4" CURB ALONG GUARDRAIL SECTION, MAINTAIN EXIST!NG OFFSET & STATIONS |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SUBTOTAL | | ~ | 860 | ~ | 859.6 | |
| TOTAL | | 860 | | ~ | | |

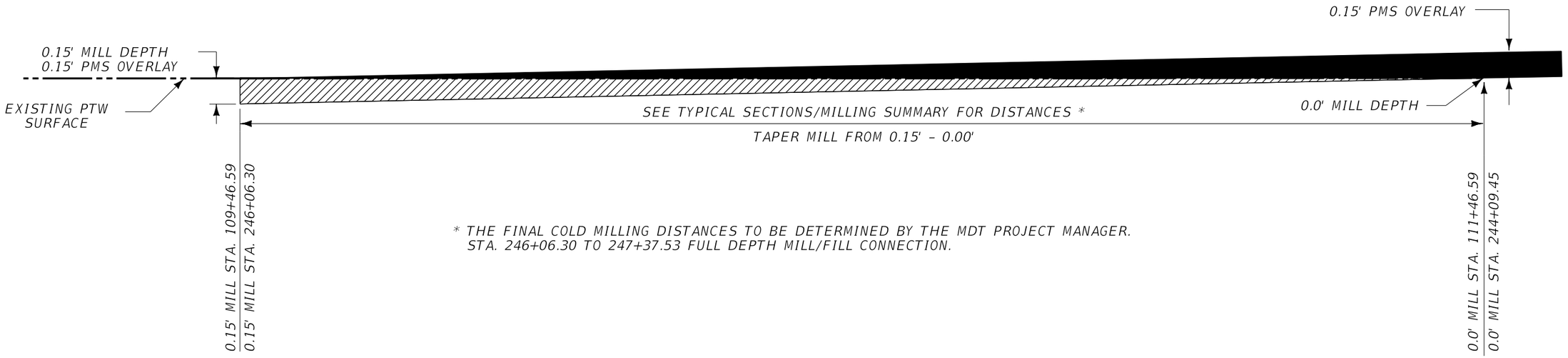
# FOR INFORMATION ONLY - INCLUDE IN THE COST OF CURB 4 IN - CONCRETE

AWARD COPY

# DETAIL

## LONGITUDINAL TAPER MILLING CONNECTION

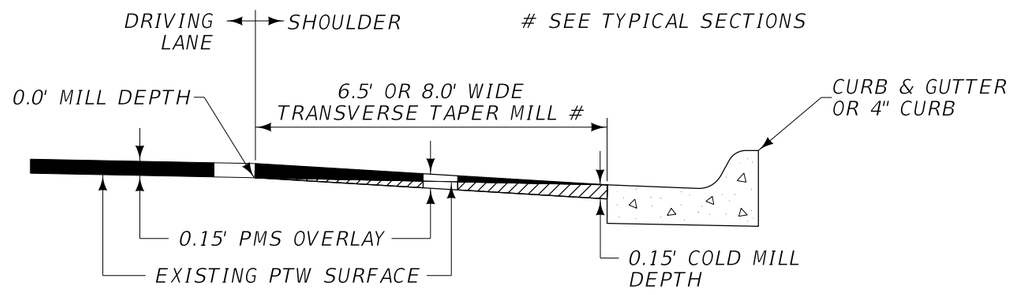
(REVERSE DETAIL FOR OPPOSITE END)




* THE FINAL COLD MILLING DISTANCES TO BE DETERMINED BY THE MDT PROJECT MANAGER.
STA. 246+06.30 TO 247+37.53 FULL DEPTH MILL/FILL CONNECTION.

## TRANSVERSE TAPER MILLING

(REVERSE DETAIL FOR PROJECT LEFT)




## PTW CONNECTIONS & TRANSVERSE TAPER MILL DETAIL

NO SCALE

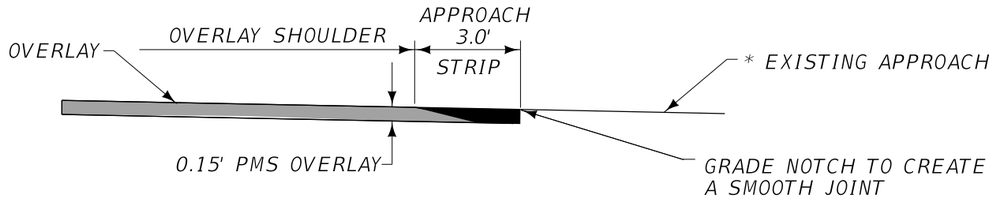
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000rddet001.dgn | DESIGNED BY A. MASON | 10/11/2022 | ROAD PLANS | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| 2 | | 5/3/2023 | REVIEWED BY | | | | |
| | | 8:57:36 AM CPS - U419 | CHECKED BY | | FLATHEAD COUNTY | UPN 9940000 | 13 |

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# DETAIL APPROACHES

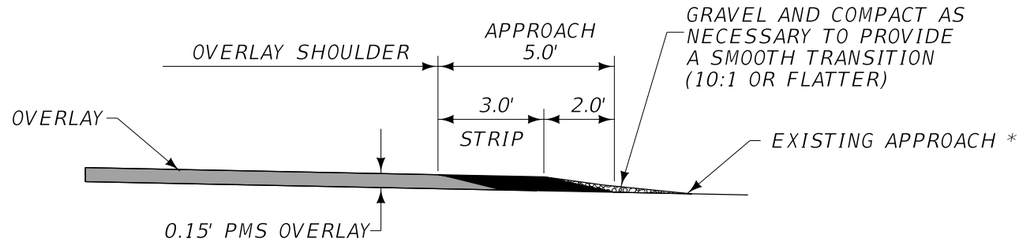
## USE METHOD TO BEST FIT FIELD CONDITIONS

### OPTION 1 FOR PRIVATE/FARM FIELD

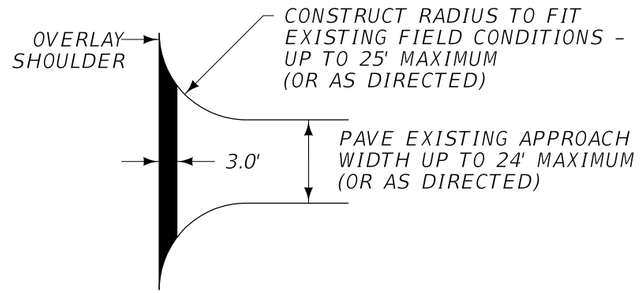



* COLD MILL NOTCH IF EXISTING APPROACH IS PAVED. THE FINAL COLD MILLING DISTANCES & DEPTH TO BE DETERMINED BY THE MDT PROJECT MANAGER.

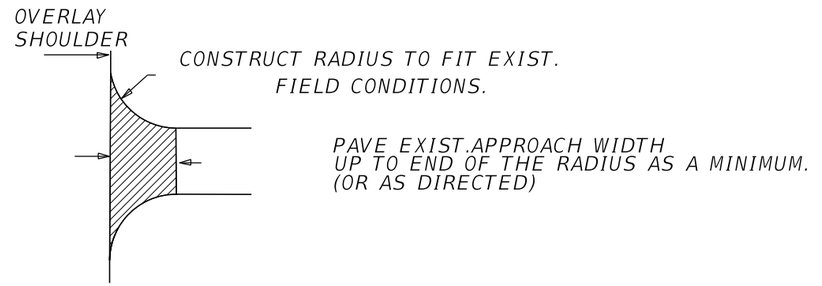
### OPTION 2 FOR PRIVATE/FARM FIELD



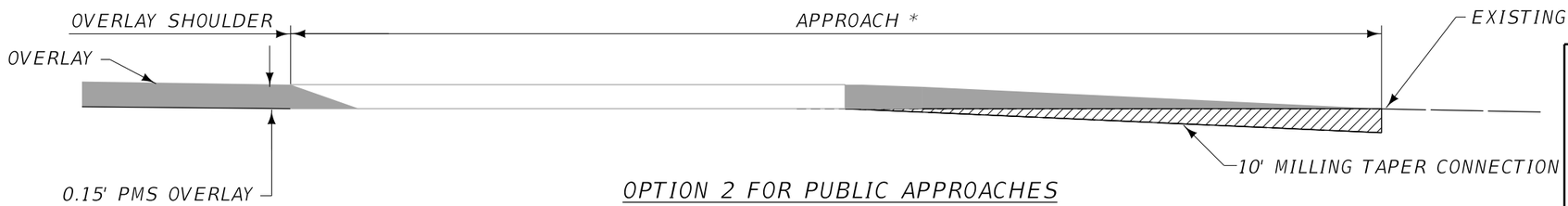

### PRIVATE/FARM FIELD



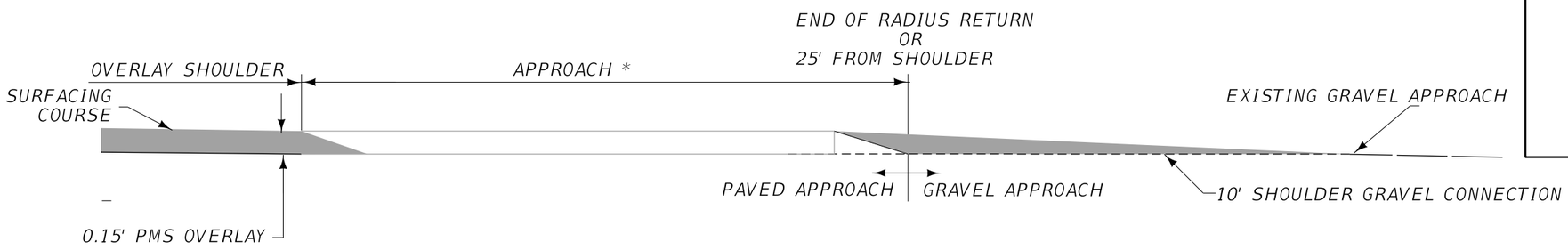

### PUBLIC APPROACH *




### OPTION 1 FOR PUBLIC APPROACHES




### OPTION 2 FOR PUBLIC APPROACHES




## APPROACH PAVING PREPARATION

IF MINOR SHAPING OF EXISTING APPROACHES IS NECESSARY:

GRADE, GRAVEL AND COMPACT AS NEEDED TO PROVIDE A SATISFACTORY PAVING SURFACE AND AS DIRECTED BY PROJECT MANAGER.

GRAVEL USED FOR APPROACH PREPARATION IS MEASURED AND PAID FOR AS SHOULDER GRAVEL.

INCLUDE ALL OTHER COSTS FOR APPROACH PAVING PREPARATION IN THE PRICE BID FOR PLANT MIX.

*APPROACH PAVING LENGTH AND MILLING TAPER LENGTH IS STATED ELSEWHERE IN THE PLANS (APPROACH TABLE) OR AS DIRECTED BY PROJECT MANAGER.
PUBLIC APPROACHES AT STA. 243+11 LT. & RT. ONLY RECEIVE 6.5' WIDE TRANSVERSE TAPER MILL CONTINUED ALONG CURB & GUTTER LINE.

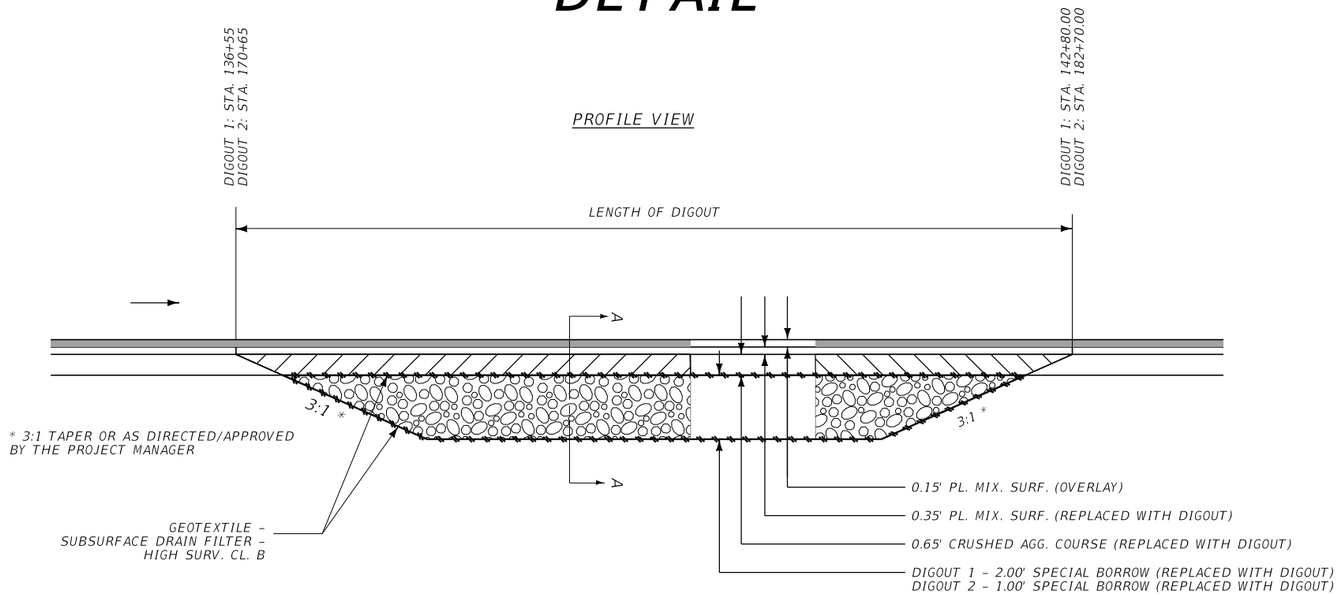
**APPROACH DETAILS**

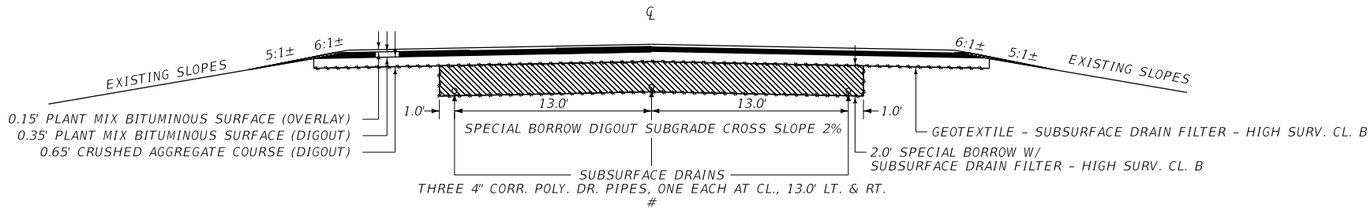
NO SCALE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 / 1 | MONTANA Department of Transportation | C:\DGN\9940000rddet001.dgn | DESIGNED BY A. MASON | 10/11/2022 | ROAD PLANS | | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| | | 5/3/2023 | REVIEWED BY | | | | | |
| | | 8:57:40 AM CPS - U419 | CHECKED BY | | FLATHEAD COUNTY | | UPN 9940000 | 14 |

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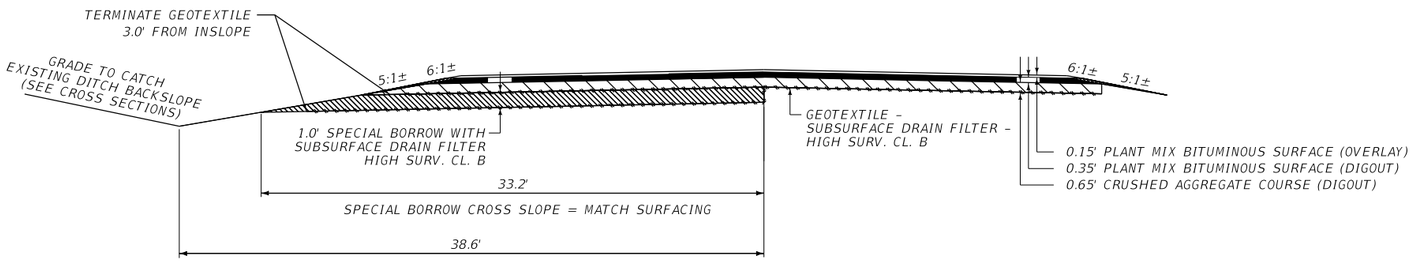
# DETAIL




# – OUTLET ALL PIPES FROM STA. 136+64 TO 136+69 LT. (USE SOLID WALL PIPE W/ 1/2" x 1/2" RODENT GUARDS)
ABANDON IN PLACE EXISTING OUTLET RT., DO NOT DISTURB DELINEATED WETLAND AREAS.

SECTION A–A (1)
DIGOUT 1
STA. 136+55 TO 142+80
(TYP. NO. 4)




SECTION A–A (2)
DIGOUT 2
STA. 170+65 TO 182+70
(TYP. NO. 5)

## DIGOUT DETAIL

NO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | MONTANA Department of Transportation | C:\DGN\9940000rddet001.dgn | DESIGNED BY | A. MASON | 10/11/2022 | ROAD PLANS | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | | 5/3/2023 | REVIEWED BY | | | | |
| 1 | | 8:57:45 AM CPS – U419 | CHECKED BY | | | FLATHEAD COUNTY | UPN 9940000 / 15 |

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140+00

DIGOUT 1: STA. 136+55 TO 142+80

OUTLET 4" SUBSURFACE DRAINS STA. 136+64 TO 136+69 LT. (SEE DIGOUT 1 CROSS SECTIONS)

3 x 4" CORR. POLY. DR. 4" @ CL., 13' LT., 13' RT. (SEE DETAIL & TYP. NO. 4)

N 46° 12' 22" W

9940-3

9940-4

9940-5

9940-6

WL-4

WL-3

WL-2

EXISTING 4" SUBSURFACE DRAIN OUTLET RT. ABANDON IN PLACE (NO PERMITTED WETLAND IMPACTS)

136+47
18" CAP DR. IN PL.
USE AS IS

136+55.00

136+64 TO 142+72
SUBSURFACE DRAINS
LT., RT., CL.
(SEE DETAIL)

137+31
18" CAP IN PL
APP. PIPE LT.
USE AS IS

PC 138+09.70

PI =139+10.80
Δ =1° 10' 37" (RT)
R =9,843'
T =101.09'
L =202.18'
E =0.52'

PT 140+11.88

142+80.00

TS 144+65.32

SC 146+12.95

PI =212+05.19
Δ =184° 11' 54" (RT)
Rc =246'
Ls =148'
Δc =149° 49' 15" (RT)
Ts =6,739.87'
Lc =643.42'
Es =6,424.89'

STA. 142+80.00

END DIGOUT 1 (SEE DETAIL)

142+80.00
EL.3,774.12

STA. 136+55.00

BEGIN DIGOUT 1 (SEE DETAIL)

EXISTING PTW PROFILE

APPROX. 6.9%
(ACROSS DIGOUT 1)

SPECIAL BORROW

136+55.00
EL.3,731.38

3770
3760
3750
3740
3730

136+55
139+55
142+55
145+55

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000rdplp001.dgn | DESIGNED BY A. MASON | 10/11/2022 | ROAD PLANS | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| 2 | | 5/3/2023 | REVIEWED BY | | FLATHEAD COUNTY | UPN 9940000 | 16 |
| | | 8:57:54 AM CPS - U4191 | CHECKED BY | | | | |

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## DIGOUT 2: STA. 170+65 TO 182+70

170+00

PI =169+26.93
Δ =8° 24' 31" (RT)
Rc =1,969'
Ls =131'
Δc =4° 35' 20" (RT)
Ts =210.35'
Lc =157.66'
Es =5.68'

CS 170+05.48

170+65.00

ST 171+36.71

TS 174+89.64

SC 176+20.87

180+16
SAN SEW X-ING
DEPTH UNKNOWN

180+00

PI =178+67.31
Δ =18° 04' 45" (LT)
Rc =1,969'
Ls1 =131'
Δc =16° 10' 09" (LT)
Ts1 =377.67'
Ts2 =314.35'
Lc =555.53'
Es =24.94'

TS 181+76.41

182+70.00

WL-1

9940-8

S 72° 37' 34" E

9940-9

9940-10

N 89° 17' 41" E

SAN

180+43
24" CAP DR. IN PL.
USE AS IS

STA. 170+65.00
BEGIN DIGOUT 2 (SEE DETAIL)

STA. 182+70.00
END DIGOUT 2 (SEE DETAIL)

4030
4020
4010
4000
3790

EXISTING PTW PROFILE
SPECIAL BORROW
170+65.00
EL.3,998.56

4075
4065
4055
4045
4035

EXISTING PTW PROFILE
APPROX. 8.6%
(ACROSS DIGOUT 2)
SPECIAL BORROW

4100
4090
4080

182+70.00
EL.4,102.24
EXISTING PTW PROFILE
SPECIAL BORROW

170+60 173+60 176+60 179+60 182+60

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 / 1 | MONTANA Department of Transportation | C:\DGN\9940000rdplp001.dgn | DESIGNED BY A. MASON | 10/11/2022 | ROAD PLANS | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| | | 5/3/2023 | REVIEWED BY | | | | |
| | | 8:57:58 AM CPS - U419 | CHECKED BY | | FLATHEAD COUNTY | UPN 9940000 | 17 |

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# SUMMARY
# SIGNING & DELINEATION QUANTITIES

| MATERIAL | TOTAL | UNIT |
|---|---|---|
| SIGNS-ALUM REFL SHEET IV | | SQ. FOOT |
| SIGNS-ALUM REFL SHEET XI | 461.7 | SQ. FOOT |
| | | |
| SIGNS-ALUM SHEET INCR IV | | SQ. FOOT |
| SIGNS-ALUM SHEET INCR XI | | SQ. FOOT |
| OVERLAY-SHEET ALUMINUM | | SQ. FOOT |
| POSTS-STEEL U SIGN | 54 | POUNDS |
| POLES-TREATED WOOD 4 IN | 364 | LINEAR FT. |
| POLES-TREATED WOOD 5 IN | 72 | LINEAR FT. |
| | | |
| POLES-TREATED TIMBER-CLASS 4 | | LINEAR FT. |
| POLES-TREATED TIMBER-CLASS 3 | | LINEAR FT. |
| POSTS-TUBULAR STEEL | | POUNDS |
| POSTS-TUBULAR STEEL-SQ-PERF | | POUNDS |
| POSTS-STEEL STRUCTURAL SIGN | | POUNDS |
| OVERHEAD STR/METAL-CANTILEVER | | EACH |
| OVERHEAD STR/METAL-BRIDGE | | EACH |
| | | |
| HIGHWAY TRAFFIC STRIPING-WHITE | | GAL.(S) |
| HIGHWAY TRAFFIC STRIPING-YELLOW | | GAL.(S) |
| WORDS & SYMBOLS | | GAL.(S) |
| | | |
| DELINEATOR DES A | 50 | EACH |
| DELINEATOR DES B | | EACH |
| DELINEATOR DES C | 123 | EACH |
| DELINEATOR DES D | 8 | EACH |
| DELINEATOR DES E | | EACH |
| DELINEATOR DES F | 101 | EACH |
| DELINEATOR DES G | | EACH |
| DELINEATOR DES H | | EACH |
| REMOVE SIGNS | 47 | EACH |
| REMOVE SIGNS-GUIDE | | EACH |
| RESET SIGNS | | EACH |
| RESET SIGNS-GUIDE | | EACH |
| DELINEATOR SNOWPOLE-DES F | 12 | EACH |
| FRANG SIGN POST BKWY- | | EACH |
| FRANG SIGN POST BKWY- | | EACH |
| | | |
| | | |
| SQ TUBLR SLIP BASE BKWY-3 IN | | EACH |

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# 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/GUIDE: REMOVE | SIGNS/GUIDE: RESET | SIGNS/GUIDE: REMOVE | SIGNS/GUIDE: RESET | REMARKS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109+45 Rt. | | M.P. 4 D10-1 (2) | 10"x18" | | | 4-0 | | 2 lb/ft STL-U | | 9-2 | | 4-0 | 3-0 | 1.3 1.3 | | | | | | | | 18 | | | | | | | | NEW |
| 109+45 Lt. | | N7-1 | 36"x48" | | | 10-0 | | 5" Dia. POLE | | 16-6 | | 7-0 | 3-6 | 12.0 | | | | 18 | | | | | X | 1 | | | | | | |
| | | N7-1p | 36"x12" | | | | | | | | | | | 3.0 | | | | | | | | | | | | | | | | MALMQUIST CONSTRUCTION |
| 109+45 Rt. | | N7-1 | 36"x48" | | | 10-0 | | 5" Dia. POLE | | 16-6 | | 7-0 | 3-6 | 12.0 | | | | 18 | | | | | X | 1 | | | | | | |
| | | N7-1p | 36"x12" | | | | | | | | | | | 3.0 | | | | | | | | | | | | | | | | WHITEFISH HIGH SCHOOL |
| 110+89 Lt. | | W8-5 | 30"x30" | | | 2-0 | | 4" Dia. POLE | | 14-0 | | 7-0 | 3-0 | 6.3 | | | 14 | | | | | | | 1 | | | | | BGR | |
| 111+88 Rt. | | R2-1 (40) | 24"x30" | | | 10-0 | | 4" Dia. POLE | | 14-4 | | 7-0 | 3-0 | 5.0 | | | 16 | | | | | | | 1 | | | | | | |
| 111+88 Lt. | | R2-1 (40) | 24"x30" | | | 2-0 | | 4" Dia. POLE | | 13-6 | | 7-0 | 3-0 | 5.0 | | | 14 | | | | | | | 1 | | | | | BGR | |
| 126+64 Rt. | | W1-2L | 30"x30" | | | 10-0 | | 4" Dia. POLE | | 15-4 | | 7-0 | 3-0 | 6.3 | | | 16 | | | | | | | 1 | | | | FY | | PLACE 125' FROM PT. of CURVE |
| 134+68 Lt. | | W1-2R | 30"x30" | | | 2-0 | | 4" Dia. POLE | | 14-0 | | 7-0 | 3-0 | 6.3 | | | 14 | | | | | | | 1 | | | | FY | BGR | PLACE 125' FROM PT. of CURVE |
| 143+04 Rt. | | W1-11R | 30"x30" | | | 10-0 | | 4" Dia. POLE | | 15-4 | | 7-0 | 3-0 | 6.3 | | | 16 | | | | | | | 1 | | | | FY | | PLACE 125' FROM PT. of CURVE |
| | | (20 mph) W13-1 | 18"x18" | | | | | | | | | | | 2.3 | | | | | | | | | | | | | | | | |
| 145+18 Lt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5 7.5 | | | | | | | | | | 1 | | | | FY | BGR | Mount on Sq. Tube |
| 146+33 Lt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5 7.5 | | | | | | | | | | 1 | | | | FY | BGR | Mount on Sq. Tube |
| 147+44 Lt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5 7.5 | | | | | | | | | | 1 | | | | FY | BGR | Mount on Sq. Tube |
| 148+49 Lt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5 7.5 | | | | | | | | | | 1 | | | | FY | BGR | Mount on Sq. Tube |
| 149+57 Lt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5 7.5 | | | | | | | | | | 1 | | | | FY | BGR | Mount on Sq. Tube |
| 150+62 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | | 14-0 | | 7-0 | 3-0 | 5.0 5.0 | | | 14 | | | | | | | 1 | | | | FY | | |
| 151+71 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | | 14-0 | | 7-0 | 3-0 | 5.0 5.0 | | | 14 | | | | | | | 1 | | | | FY | | |
| 152+82 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | | 14-0 | | 7-0 | 3-0 | 5.0 5.0 | | | 14 | | | | | | | 1 | | | | FY | | |
| 153+74 Rt. | | W1-2L | 30"x30" | | | 2-0 | | 4" Dia. POLE | | 14-0 | | 7-0 | 3-0 | 6.3 | | | 14 | | | | | | | 1 | | | | FY | BGR | PLACE 125' FROM PT. of CURVE |
| 153+97 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | | 14-0 | | 7-0 | 3-0 | 5.0 5.0 | | | 14 | | | | | | | 1 | | | | FY | | |
| 154+53 Lt. | | W1-11L | 30"x30" | | | 10-0 | | 4" Dia. POLE | | 15-4 | | 7-0 | 3-0 | 6.3 | | | 16 | | | | | | | 1 | | | | FY | | PLACE 125' FROM PT. of CURVE |
| | | (20 mph) W13-1 | 18"x18" | | | | | | | | | | | 2.3 | | | | | | | | | | | | | | | | |
| 162+40 Lt. | | W1-2R | 30"x30" | | | 10-0 | | 4" Dia. POLE | | 15-4 | | 7-0 | 3-0 | 6.3 | | | 16 | | | | | | | 1 | | | | FY | | PLACE 125' FROM PT. of CURVE |
| 164+70 Rt. | | R1-1 | 30"x30" | | | 6-0 | | 4" Dia. POLE | | 12-4 | | 5-0 | 3-0 | 5.2 | | | 14 | | | | | | | 1 | | | | | | |
| 164+96 Rt. | | By Others | USE AS IS | | | | | | | | | | | | | | | | | | | | | | | | | | PTARMIGAN VILLAGE | USE AS IS |
| 165+68 Rt. | | M.P. 5 D10-1 (2) | 10"x18" | | | 2-0 | | 2 lb/ft STL-U | | 9-2 | | 4-0 | 3-0 | 1.3 1.3 | | | | | | | | 18 | | 1 | | | | | BGR | |
| 215+88 Rt. | | M.P. 6 D10-1 (2) | 10"x18" | | | 4-0 | | 2 lb/ft STL-U | | 9-2 | | 4-0 | 3-0 | 1.3 1.3 | | | | | | | | 18 | | 1 | | | | | | |
| 215+88 Rt. | | N7-1 | 36"x48" | | | 10-0 | | 5" Dia. POLE | | 16-5 | | 7-0 | 3-6 | 12.0 | | | | 18 | | | | | X | 1 | | | | | FROM STA. 65+85 | |
| 215+88 Lt. | | N7-1 | 36"x48" | | | 10-0 | | 5" Dia. POLE | | 16-6 | | 7-0 | 3-6 | 12.0 | | | | 18 | | | | | X | 1 | | | | | | |
| | | N7-1p | 36"x12" | | | | | | | | | | | 3.0 | | | | | | | | | | | | | | | FROM STA. 66+95 | WHITEFISH HIGH SCHOOL |

**SIGNING LOCATIONS ARE APPROXIMATE.**

**FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY**

X = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

Adopt-A-Highway Signing

Contractor will confirm that the group name on the sign(s) currently existing at the time of construction corresponds to the group name on the sign(s) shown in plans. If name is different, Field Project Manager will contact Traffic & Safety Bureau Signing Section with correct name and a new sign design will be provided.

BGR= BEHIND GUARDRAIL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000sisum001.dgn | Designed By: Roger Schroeder | 07/2022 | SIGNING PLANS | Big Mountain Road | STPS 487-1(17)4 |
| 2 | | 4/24/2023 | Checked By: Nathan Styren | 08/2022 | | | |
| 1 | | 11:51:12 AM CPS - U4044 | Reviewed By: *** | *** | FLATHEAD COUNTY | UPN #9940000 | S2 |

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/GUIDE: REMOVE | SIGNS/GUIDE: RESET | SIGNS/GUIDE: REMOVE | SIGNS/GUIDE: RESET | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 219+00 Rt. | | W1-11R | 30"x30" | | | 10-0 | | 4" Dia. POLE | 15-4 | | | 7-0 | 3-0 | 6.3 | | | 16 | | | | | | 1 | | | | FY | PLACE 125' FROM PT. of CURVE |
| | | (25 mph) W13-1 | 18"x18" | | | | | | | | | | | 2.3 | | | | | | | | | | | | | | 20 MPH |
| 220+90 Lt. | | R1-1 | 30"x30" | | | 6-0 | | 4" Dia. POLE | 12-4 | | | 5-0 | 3-0 | 5.2 | | | 14 | | | | | | 1 | | | | | STOP |
| 221+88 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-0 | | | 7-0 | 3-0 | 5.0<br>5.0 | | | 14 | | | | | | 1 | | | | FY | |
| 223+10 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-0 | | | 7-0 | 3-0 | 5.0<br>5.0 | | | 14 | | | | | | 1 | | | | FY | |
| 224+25 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-0 | | | 7-0 | 3-0 | 5.0<br>5.0 | | | 14 | | | | | | 1 | | | | FY | |
| 225+36 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-0 | | | 7-0 | 3-0 | 5.0<br>5.0 | | | 14 | | | | | | 1 | | | | FY | |
| 226+44 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-0 | | | 7-0 | 3-0 | 5.0<br>5.0 | | | 14 | | | | | | 1 | | | | FY | |
| 228+18 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-0 | | | 7-0 | 3-0 | 5.0<br>5.0 | | | 14 | | | | | | 1 | | | | FY | |
| 229+53 Lt. | | W1-8 (2) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-0 | | | 7-0 | 3-0 | 5.0<br>5.0 | | | 14 | | | | | | 1 | | | | FY | |
| 230+15 Rt. | | By Others | USE AS IS | | | | | | | | | | | | | | | | | | | | | | | | | BGR | USE AS IS |
| 231+14 Lt. | | W1-11L | 30"x30" | | | 10-0 | | 4" Dia. POLE | 13-4 | | | 7-0 | 3-0 | 6.3 | | | 14 | | | | | | 1 | | | | FY | PLACE 125' FROM PT. of CURVE |
| | | (25 mph) W13-1 | 18"x18" | | | | | | | | | | | 2.3 | | | | | | | | | | | | | | 20 MPH |
| 232+48 Rt. | | W1-2L | 30"x30" | | | | | R.S.F.O. | | | | 7-0 | | 6.3 | | | | | | | | | 1 | | | | FY | BGR PLACE 125' FROM PT. of CURVE |
| 234+91 Rt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5<br>7.5 | | | | | | | | | 1 | | | | FY | Mount on Sq. Tube |
| 236+68 Rt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5<br>7.5 | | | | | | | | | 1 | | | | FY | Mount on Sq. Tube |
| 238+48 Rt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5<br>7.5 | | | | | | | | | 1 | | | | FY | Mount on Sq. Tube |
| 240+09 Rt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5<br>7.5 | | | | | | | | | 1 | | | | FY | Mount on Sq. Tube |
| 240+49 Lt. | | W7-1b (9%) | 30"x30" | | | | | R.S.F.O. | | | | 7-0 | | 6.3 | | | | | | | | | 1 | | | | | 9% Mount on Sq. Tube |
| 241+96 Rt. | | W1-8 (2) | 30"x36" | | | | | R.S.F.O. | | | | 7-0 | | 7.5<br>7.5 | | | | | | | | | 1 | | | | FY | Mount on Sq. Tube |
| 242+29 Lt. | | R2-1 (55) | 24"x30" | | | 10-0 | | 4" Dia. POLE | 14-4 | | | 7-0 | 3-0 | 5.0 | | | 16 | | | | | | 1 | | | | | SPEED LIMIT 55 |
| 242+85 Lt. | | D3 (2) | 36"x10" | | | | | R.S.F.O. | | | | 5-0 | | 2.5<br>2.5 | | | | | | | | | 1 | | | | | SUNRISE CT |
| | | R1-1 | 30"x30" | | | | | R.S.F.O. | | | | | | 5.2 | | | | | | | | | | | | | | STOP |
| 243+34 Rt. | | D3 (2) | 36"x10" | | | | | R.S.F.O. | | | | 5-0 | | 2.5<br>2.5 | | | | | | | | | 1 | | | | | GLADES DR. |
| | | R1-1 | 30"x30" | | | | | R.S.F.O. | | | | | | 5.2 | | | | | | | | | | | | | | STOP |
| 243+60 Lt. | | W1-2R | 30"x30" | | | | | R.S.F.O. | | | | 7-0 | | 6.3 | | | | | | | | | 1 | | | | FY | |
| 244+09 Rt. | | W5-1 | 30"x30" | | | | | R.S.F.O. | | | | 7-0 | | 6.3 | | | | | | | | | 1 | | | | | ROAD NARROWS |
| | | | | | | | | TOTAL | | | | | | 461.7 | | | 364 | 72 | | | | 54 | 47 | | | | | |

**SIGNING LOCATIONS ARE APPROXIMATE.**

**FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY**

X = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

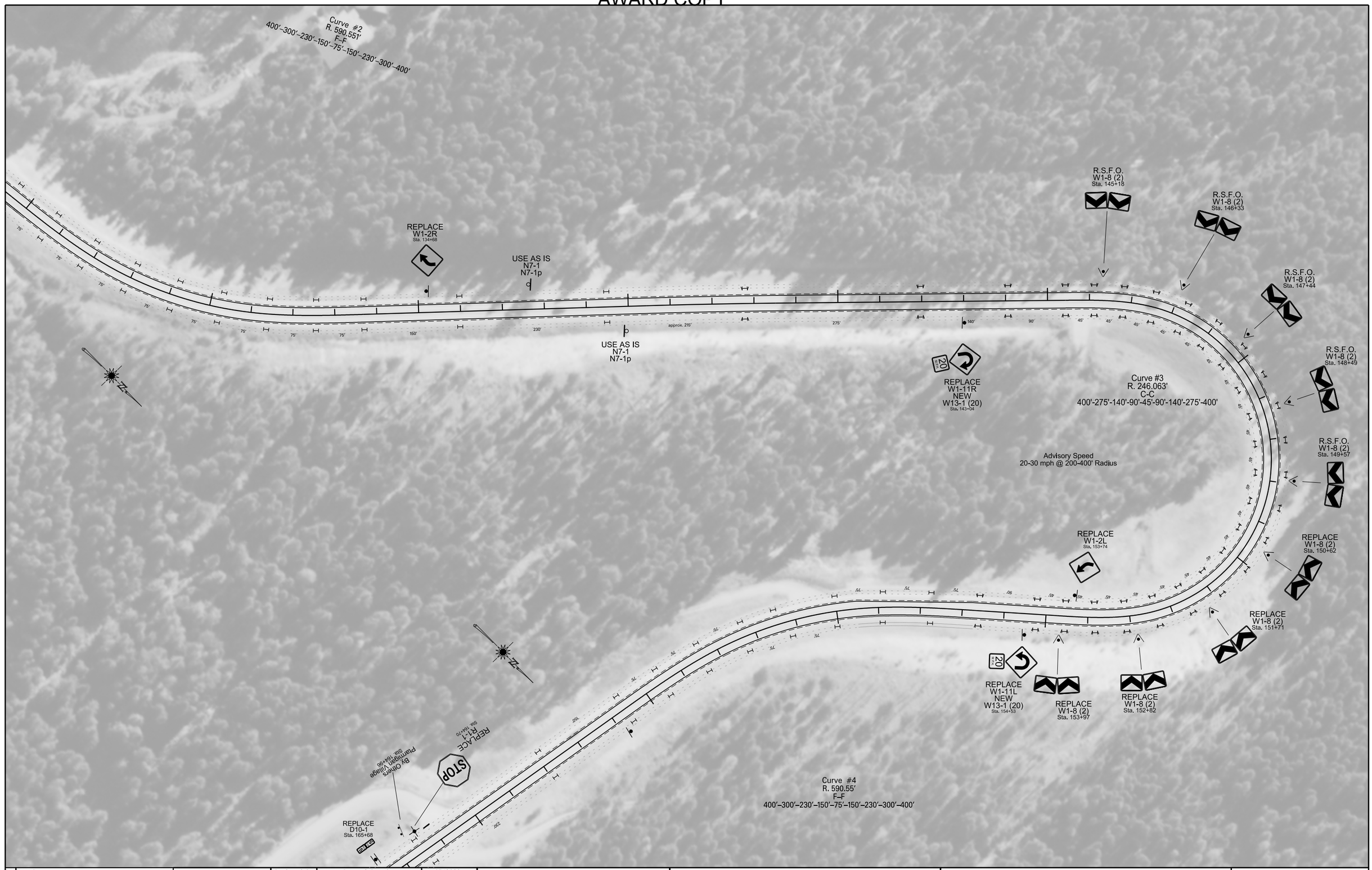
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|---|---|---|
| | DESIGN "A" | 50 |
| | DESIGN "B" | |
| | DESIGN "C" | 123 |
| | DESIGN "D" | 8 |
| | DESIGN "E" | |
| | DESIGN "F" | 101 |
| | DESIGN "G" | |
| | DESIGN "H" | |
| | DESIGN "J" | |
| | DESIGN "BJ" | |
| | DESIGN "GJ" | |
| | Snow Pole "F" | 12 |

AWARD COPY



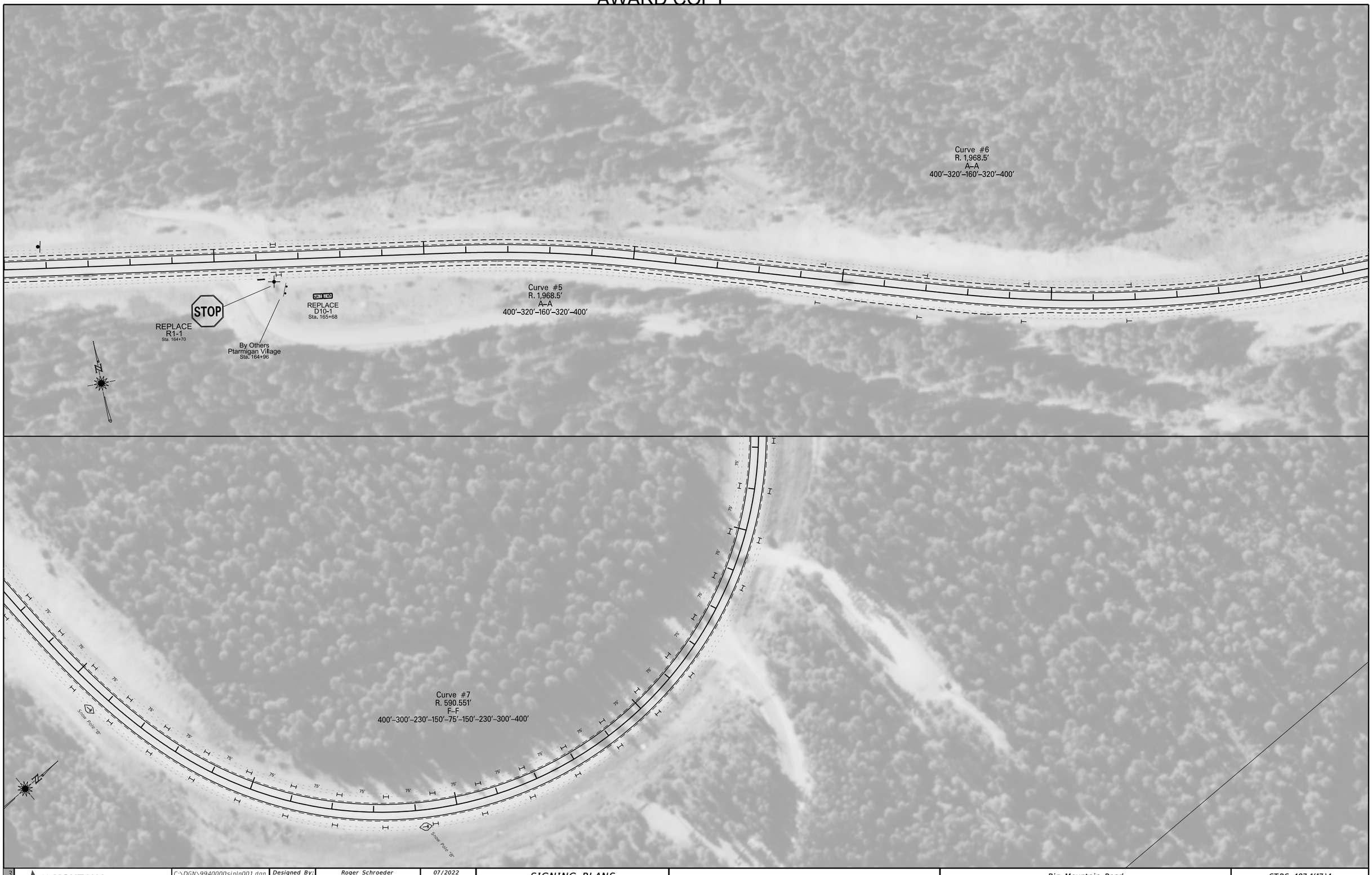

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000sipln001.dgn | Designed By: | Roger Schroeder | 07/2022 | SIGNING PLANS | Big Mountain Road | STPS 487-1(17)4 |
| 2 | | 4/24/2023 | Checked By: | Nathan Styren | 08/2022 | | | |
| 1 | | 11:51:26 AM CPS - U4044 | Reviewed By: | *** | *** | FLATHEAD COUNTY | UPN #9940000 | S4 |

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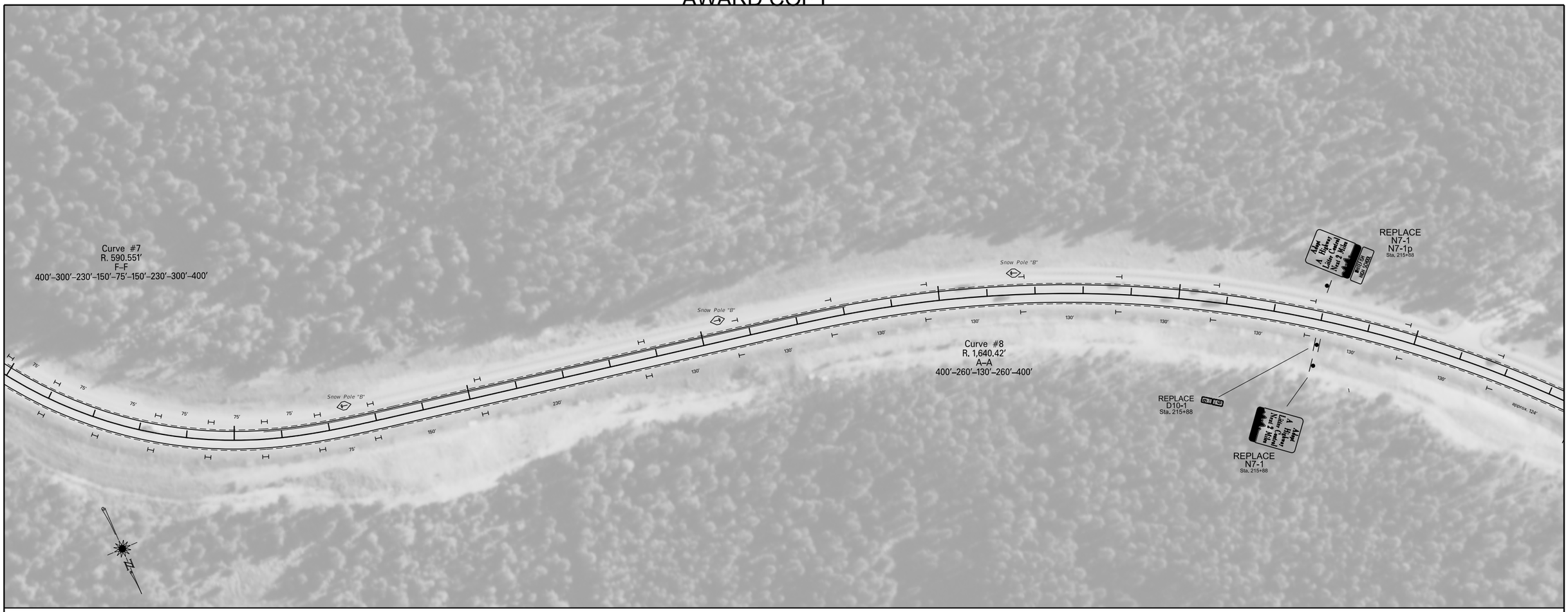

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000sipln001.dgn | Designed By: | Roger Schroeder | 07/2022 | SIGNING PLANS | Big Mountain Road / STPS 487-1(17)4 |
| 2 | | 4/24/2023 | Checked By: | Nathan Styren | 08/2022 | | |
| 1 | | 11:52:08 AM CPS - U404 | Reviewed By: | *** | *** | FLATHEAD COUNTY | UPN #9940000 / S5 |

AWARD COPY



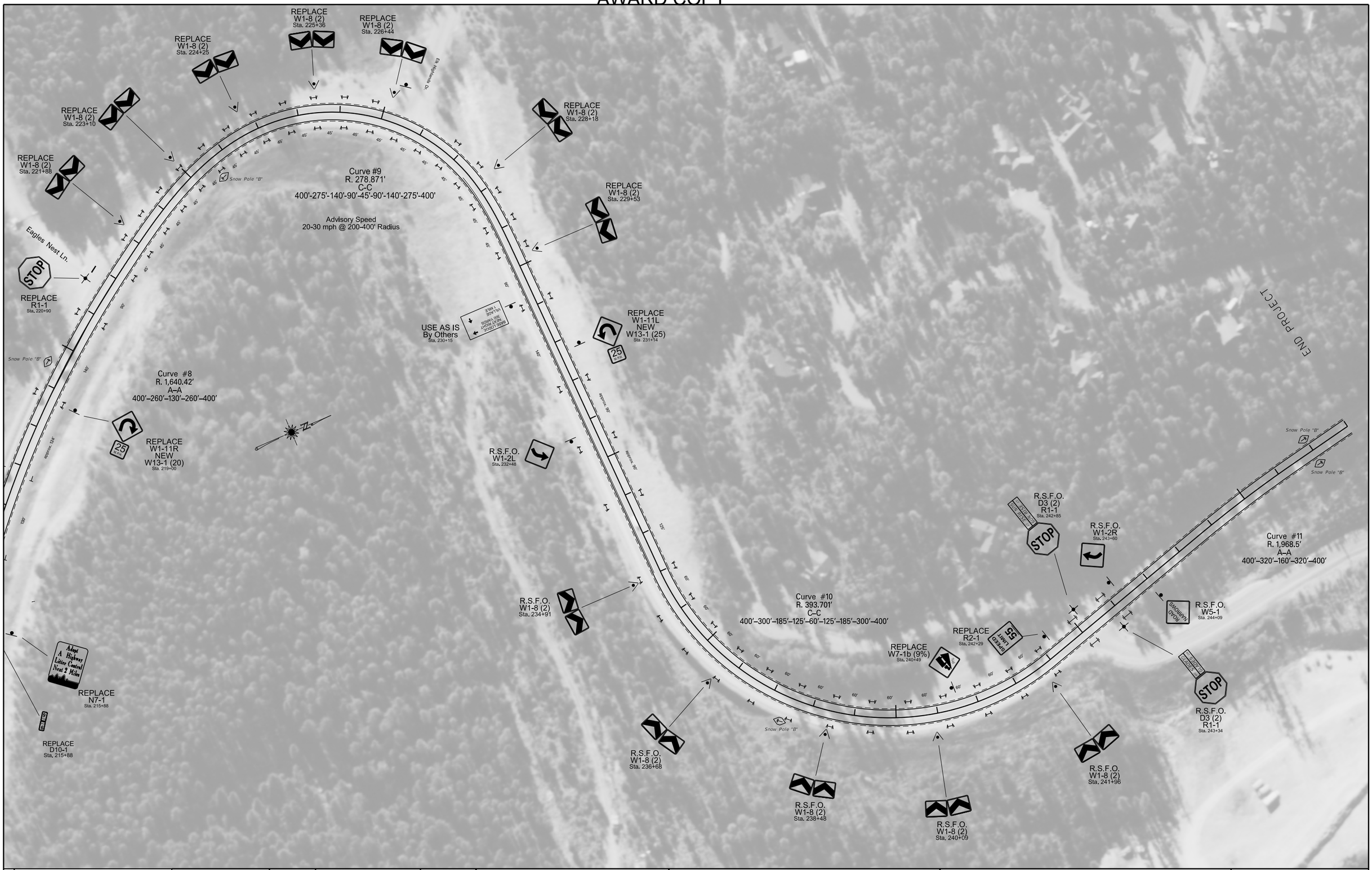

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000sipln001.dgn | Designed By: | Roger Schroeder | 07/2022 | SIGNING PLANS | Big Mountain Road / STPS 487-1(17)4 |
| 2 | | 4/24/2023 | Checked By: | Nathan Styren | 08/2022 | | |
| 1 | | 11:53:14 AM CPS – U044 | Reviewed By: | *** | *** | FLATHEAD COUNTY | UPN #9940000 / S6 |

AWARD COPY



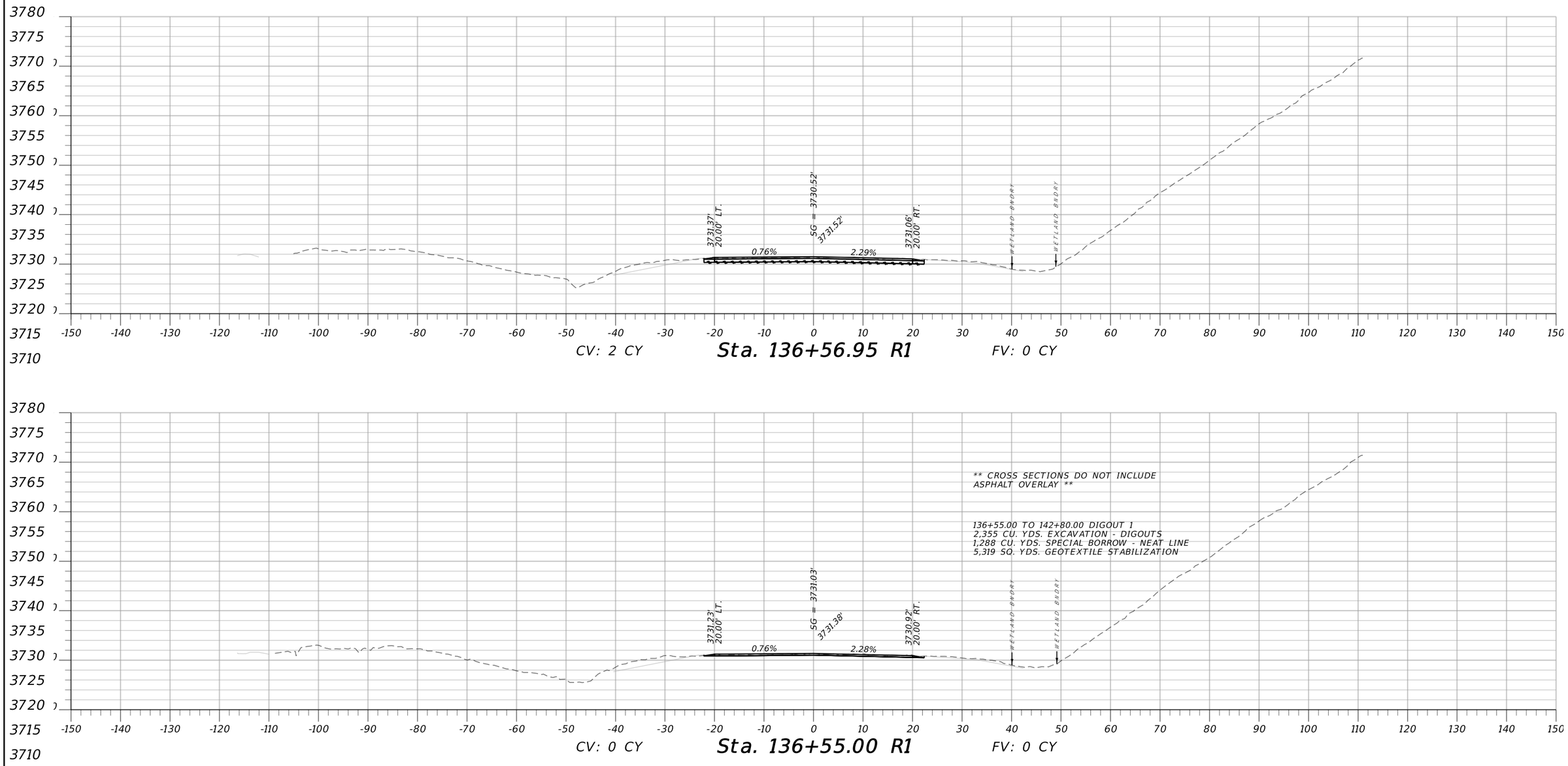

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|---|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000sipln002.dgn | Designed By: | Roger Schroeder | 07/2022 | SIGNING PLANS | Big Mountain Road | STPS 487-1(17)4 |
| 2 | | 4/24/2023 | Checked By: | Nathan Styren | 08/2022 | | | |
| 1 | | 11:54:31 AM CPS - U404 | Reviewed By: | *** | *** | FLATHEAD COUNTY | UPN #9940000 | S7 |

AWARD COPY



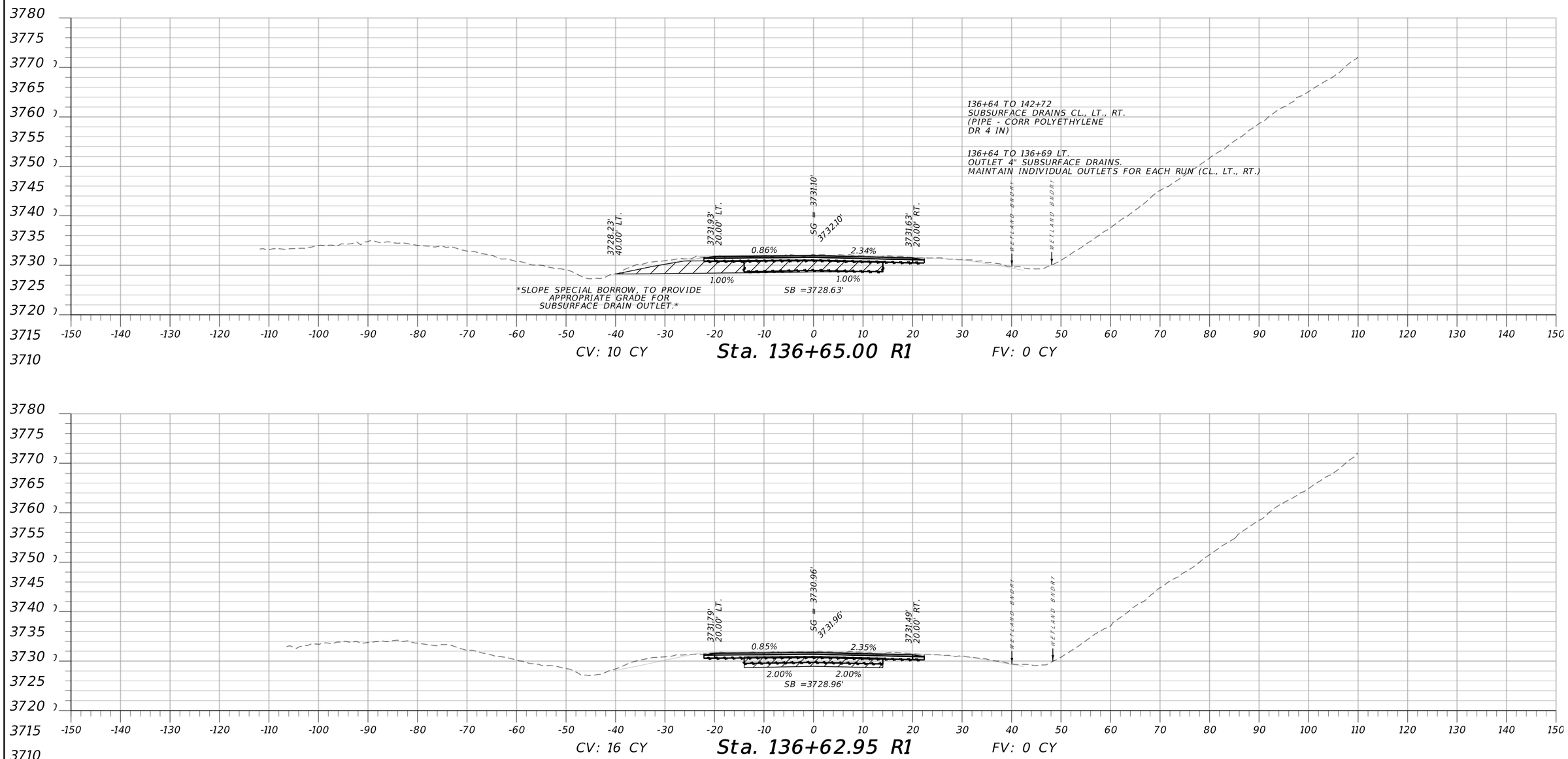

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|---|---|---|---|---|---|---|---|
| 3 | MONTANA Department of Transportation | C:\DGN\9940000sipln002.dgn | Designed By: | Roger Schroeder | 07/2022 | SIGNING PLANS | Big Mountain Road / UPN #9940000 / STPS 487-1(17)4 |
| 2 | | 4/24/2023 | Checked By: | Nathan Styren | 08/2022 | | |
| 1 | | 11:55:12 AM CPS - U4044 | Reviewed By: | *** | *** | FLATHEAD COUNTY | S8 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY A. MASON | 10/3/2022 | DIGOUT 1 CROSS SECTIONS | PRELIMINARY FPR | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | | FLATHEAD COUNTY | | UPN 9940000 / SHEET 1 |
| | 11:29:08 AM CPS - U419 | CHECKED BY | | | | |

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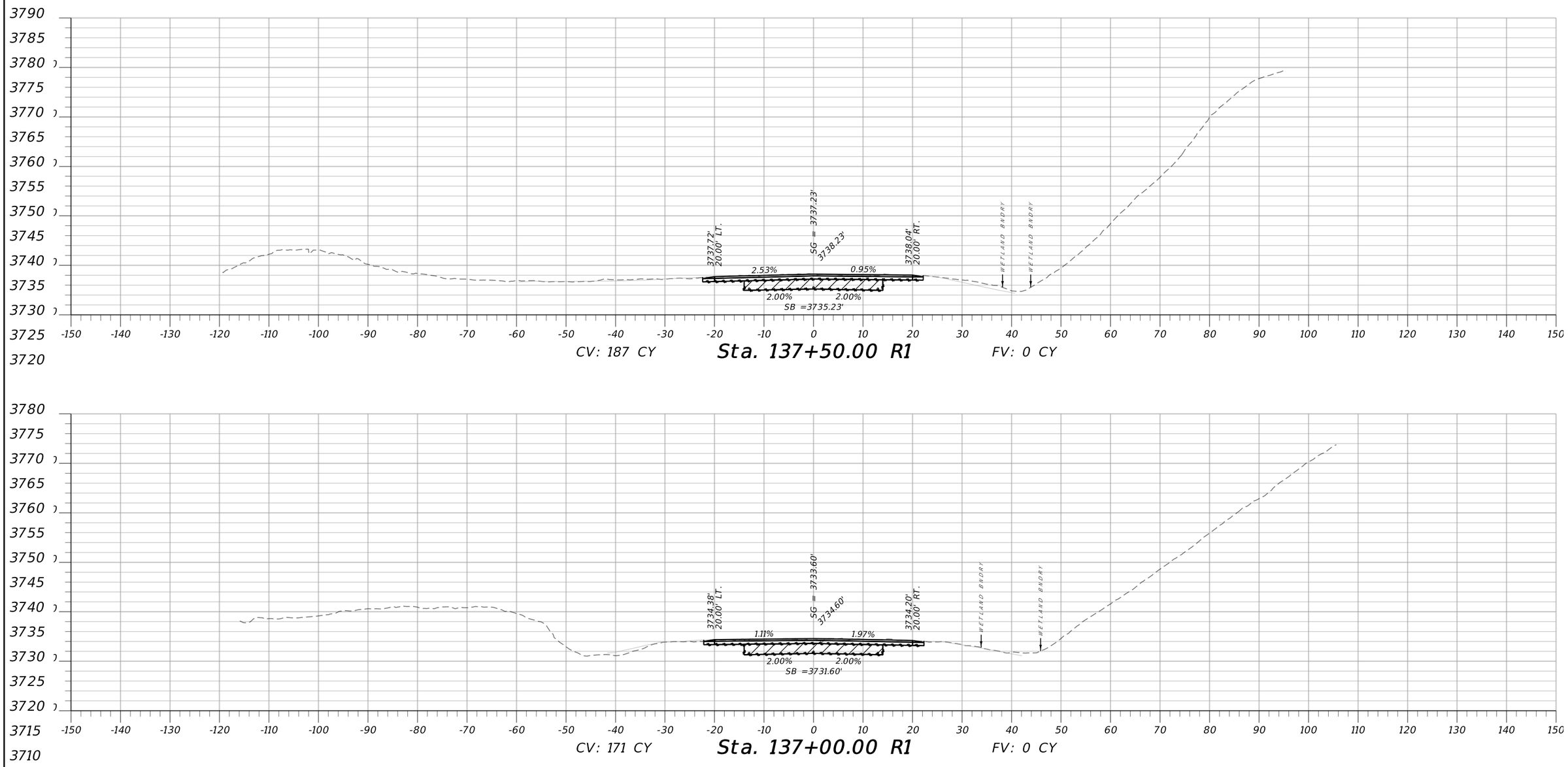

CV: 10 CY **Sta. 136+65.00 R1** FV: 0 CY




CV: 16 CY **Sta. 136+62.95 R1** FV: 0 CY

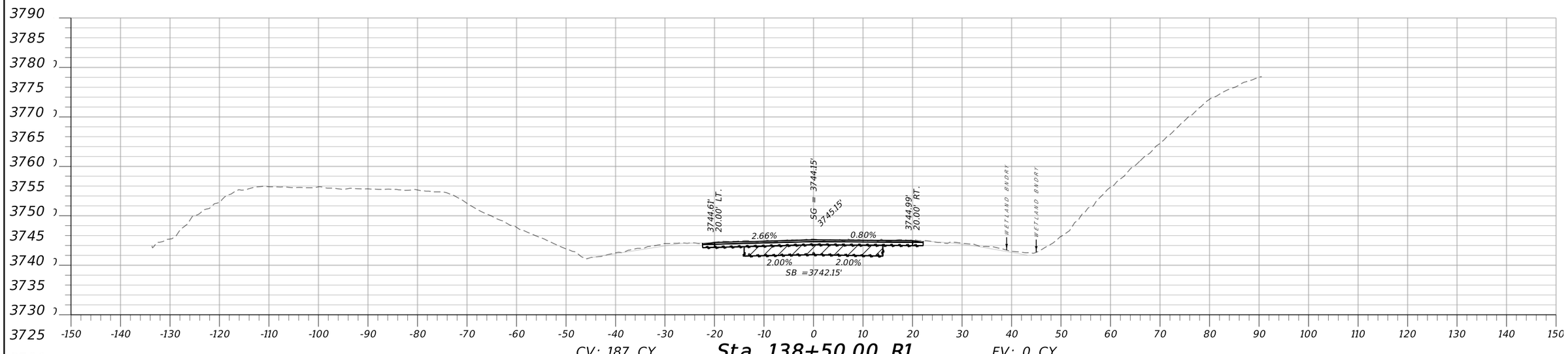
| | | | | | | |
|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY A. MASON | 10/3/2022 | DIGOUT 1 CROSS SECTIONS | PRELIMINARY FPR | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | | FLATHEAD COUNTY | | UPN 9940000 / SHEET 2 |
| | 11:29:12 AM CPS - U419 | CHECKED BY | | | | |

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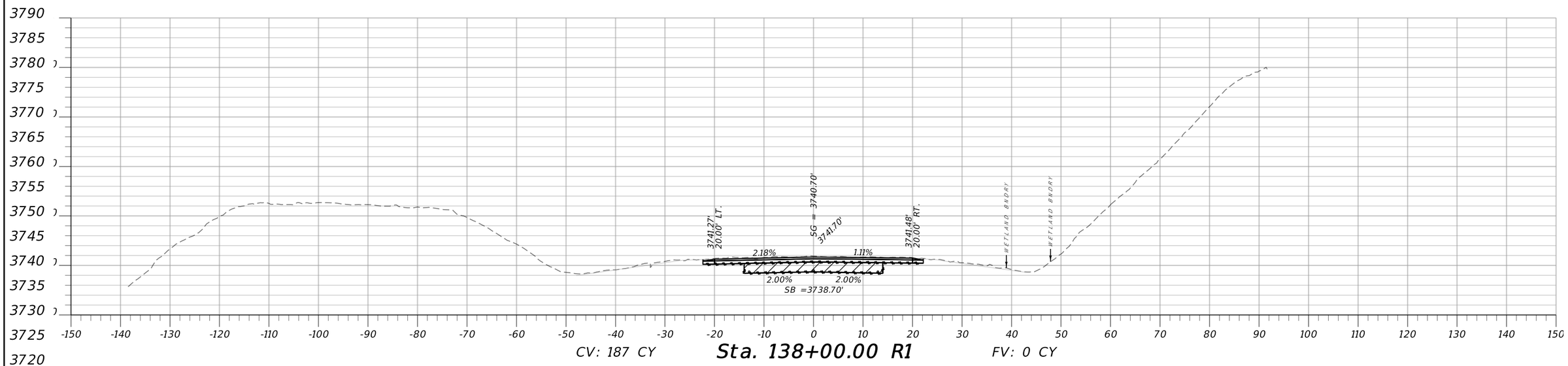



| | | | | | | |
|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY | A. MASON | 10/3/2022 | DIGOUT 1 CROSS SECTIONS | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | | | FLATHEAD COUNTY | PRELIMINARY FPR / UPN 9940000 / SHEET 3 |
| | 11:29:15 AM CPS - U419 | CHECKED BY | | | | |

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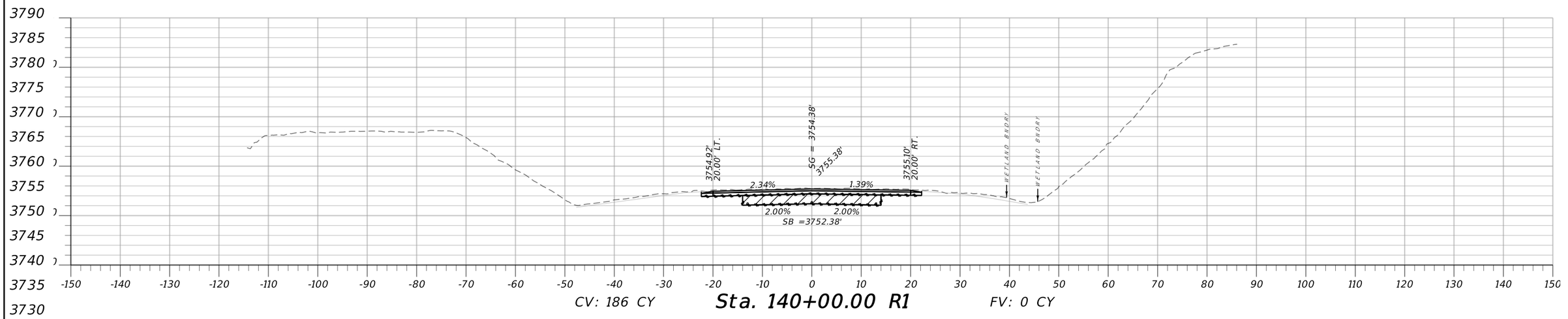

CV: 187 CY **Sta. 138+50.00 R1** FV: 0 CY



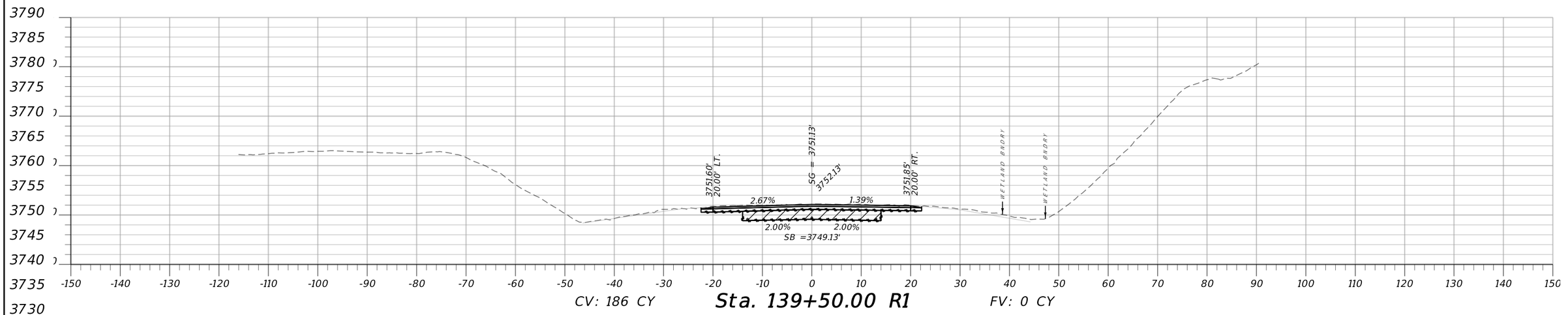

CV: 187 CY **Sta. 138+00.00 R1** FV: 0 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY | A. MASON | 10/3/2022 | DIGOUT 1 CROSS SECTIONS | PRELIMINARY FPR | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | | | FLATHEAD COUNTY | | UPN 9940000 / SHEET 4 |
| | 11:29:19 AM CPS - U419.1 | CHECKED BY | | | | | |

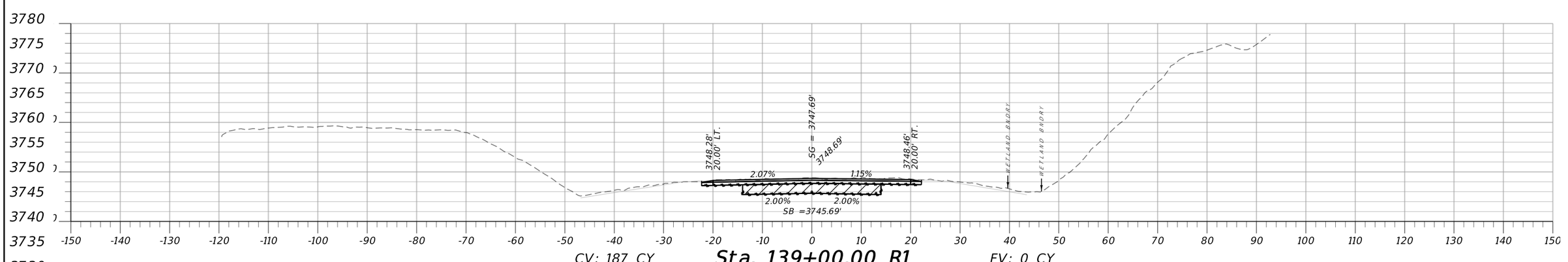
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CV: 186 CY **Sta. 140+00.00 R1** FV: 0 CY



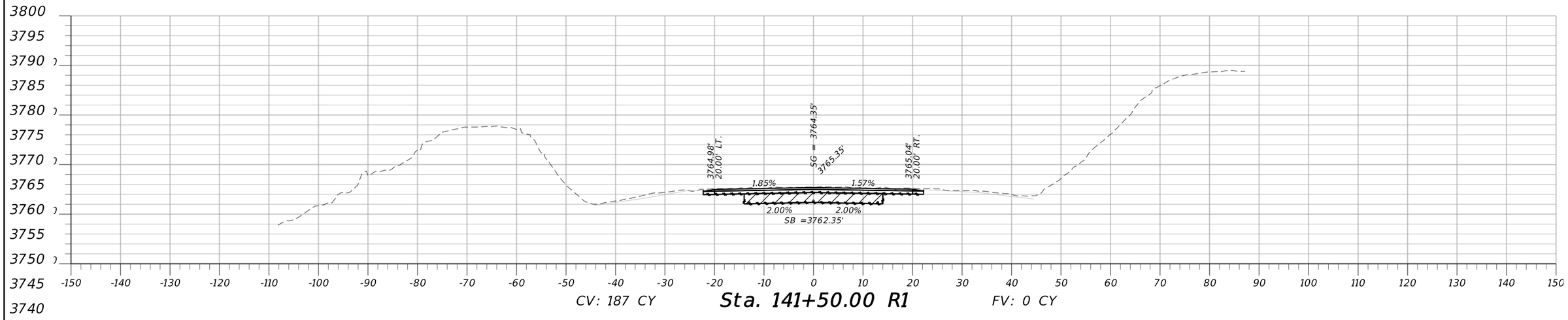

CV: 186 CY **Sta. 139+50.00 R1** FV: 0 CY



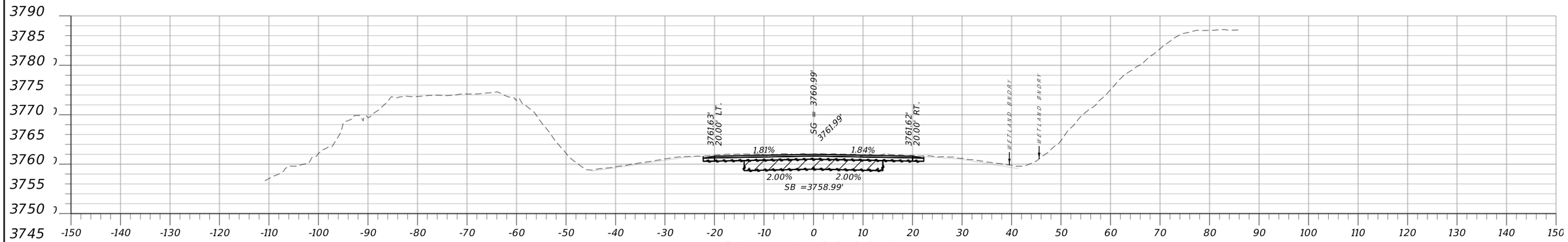

CV: 187 CY **Sta. 139+00.00 R1** FV: 0 CY

| | | | | | | |
|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY A. MASON | 10/3/2022 | DIGOUT 1 CROSS SECTIONS | PRELIMINARY FPR | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | | FLATHEAD COUNTY | | UPN 9940000 / SHEET 5 |
| | 11:29:22 AM CPS - U419.1 | CHECKED BY | | | | |

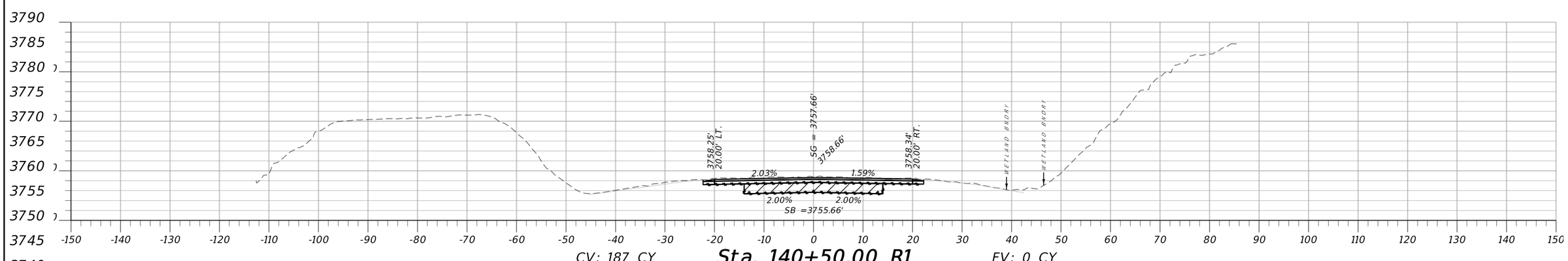
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CV: 187 CY **Sta. 141+50.00 R1** FV: 0 CY



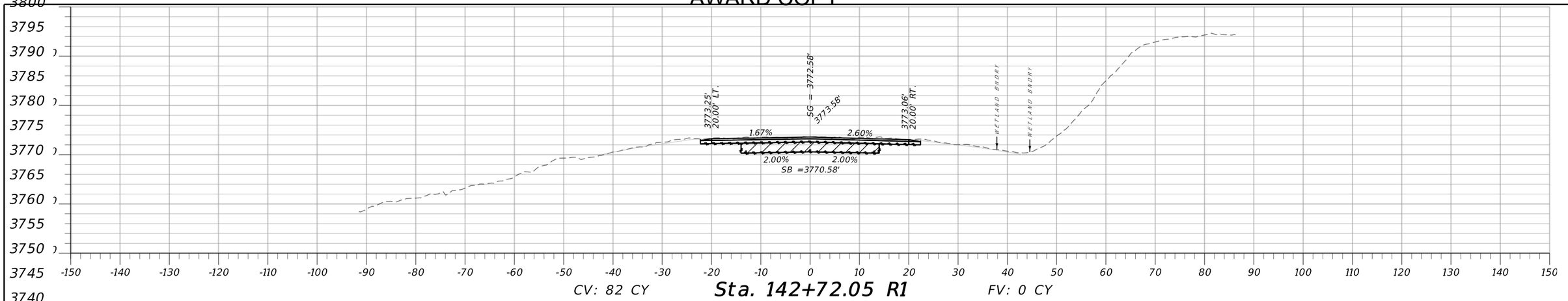

CV: 187 CY **Sta. 141+00.00 R1** FV: 0 CY



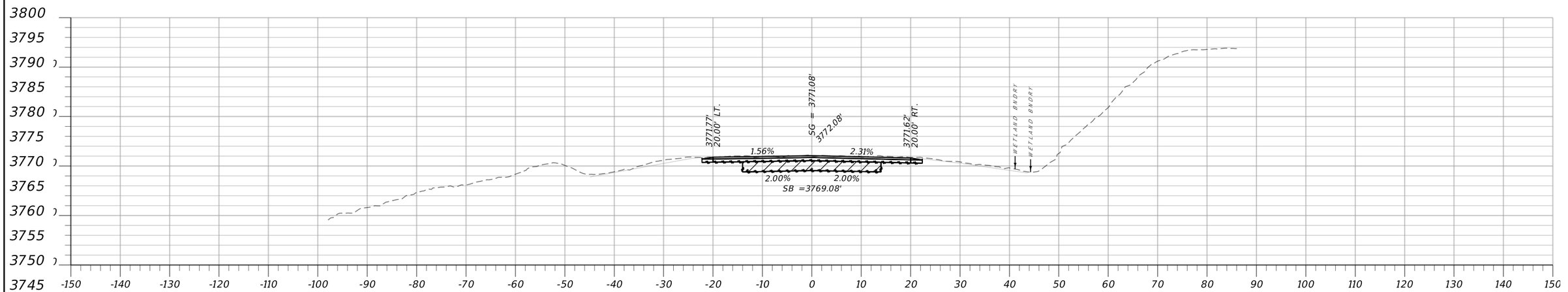

CV: 187 CY **Sta. 140+50.00 R1** FV: 0 CY

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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY A. MASON | 10/3/2022 | DIGOUT 1 CROSS SECTIONS | PRELIMINARY FPR | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | | FLATHEAD COUNTY | | UPN 9940000 / SHEET 6 |
| | 11:29:26 AM CPS - U419 | CHECKED BY | | | | |

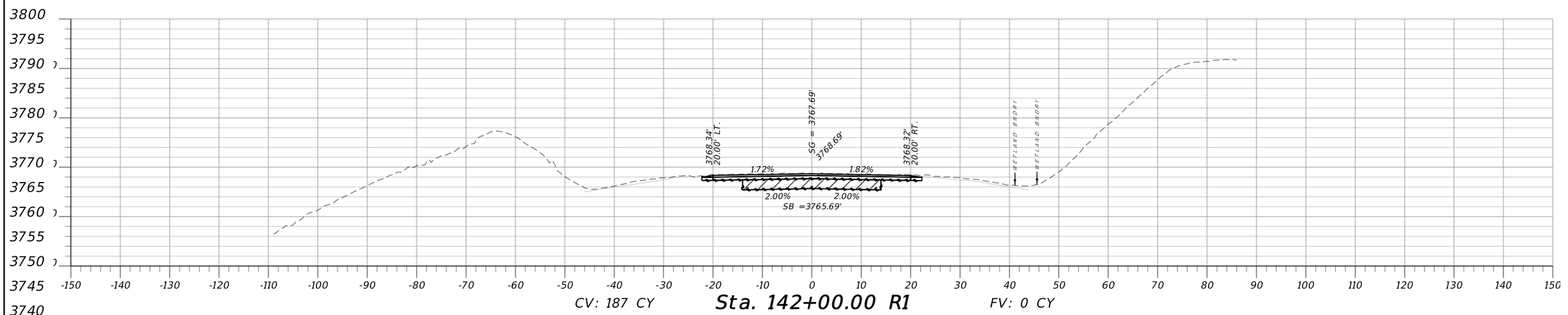
AWARD COPY




CV: 82 CY **Sta. 142+72.05 R1** FV: 0 CY



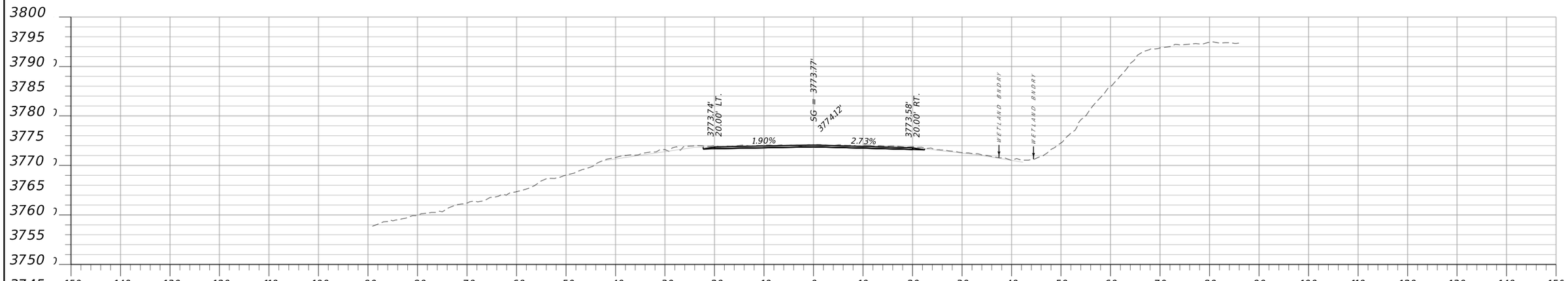

CV: 187 CY **Sta. 142+50.00 R1** FV: 0 CY



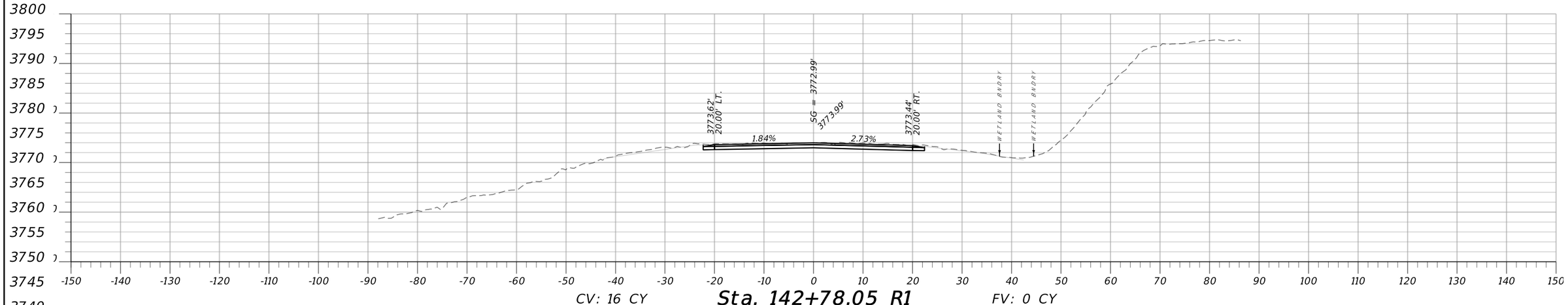

CV: 187 CY **Sta. 142+00.00 R1** FV: 0 CY

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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY A. MASON 10/3/2022 | DIGOUT 1 CROSS SECTIONS | PRELIMINARY FPR | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | FLATHEAD COUNTY | | UPN 9940000 | SHEET 7 |
| | 11:29:29 AM CPS - U419 | CHECKED BY | | | | |

AWARD COPY



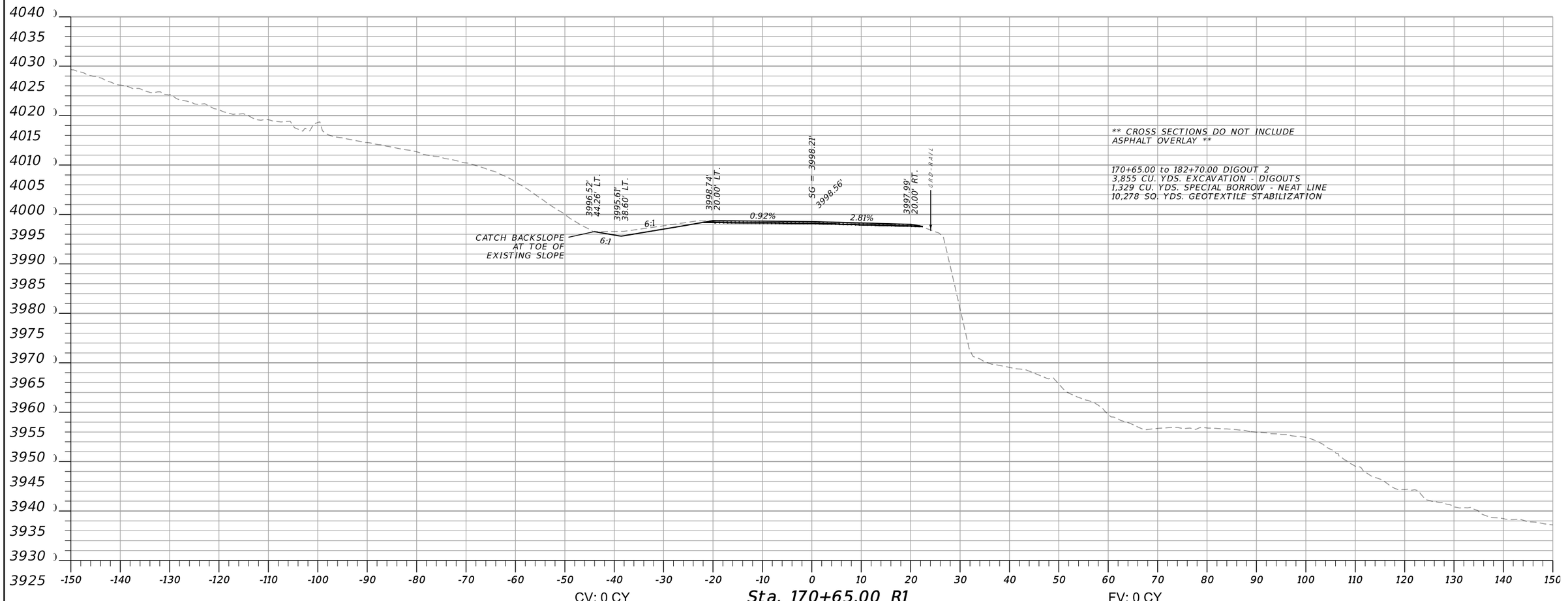

CV: 2 CY **Sta. 142+80.00 R1** FV: 0 CY




CV: 16 CY **Sta. 142+78.05 R1** FV: 0 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay001.dgn | DESIGNED BY | A. MASON | 10/3/2022 | DIGOUT 1 CROSS SECTIONS | PRELIMINARY FPR | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 2/23/2023 | REVIEWED BY | | | FLATHEAD COUNTY | | UPN 9940000 / SHEET 8 |
| | 11:29:33 AM CPS - U419 | CHECKED BY | | | | | |

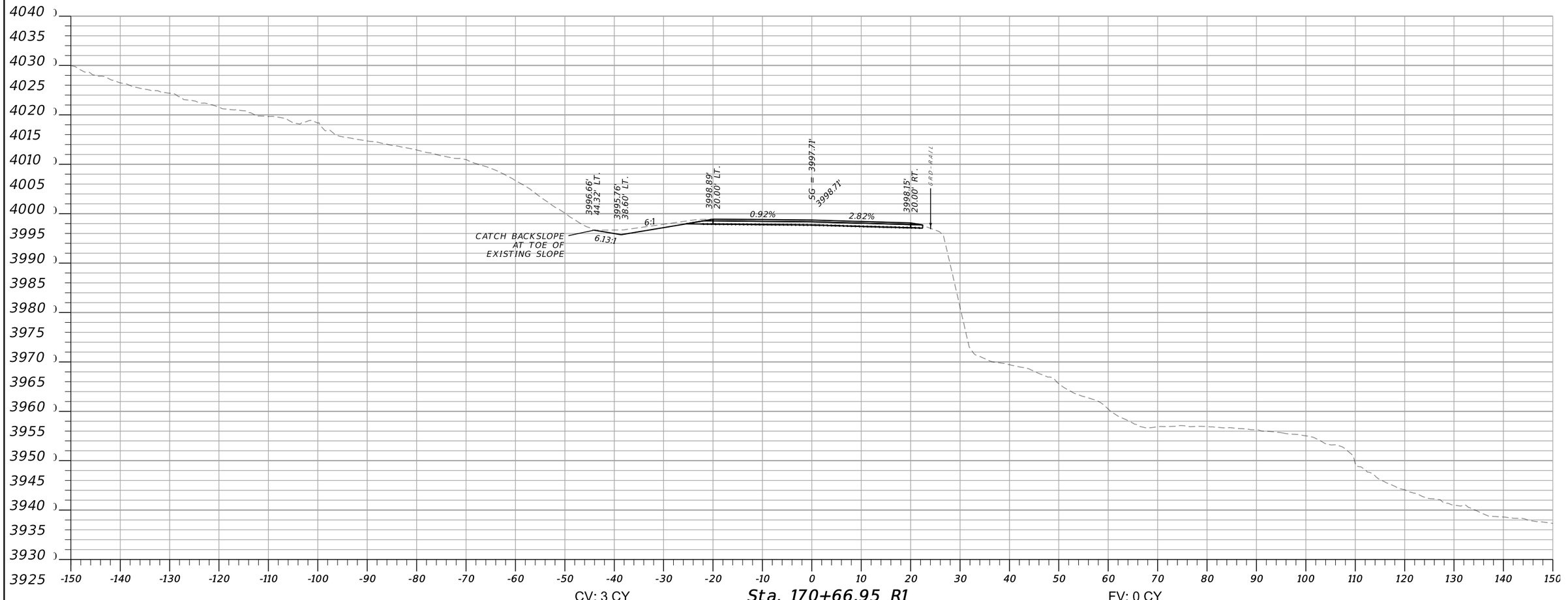
AWARD COPY




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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY |
| | 12/13/2022 | REVIEWED BY | | | | |
| | 11:13:04 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | |

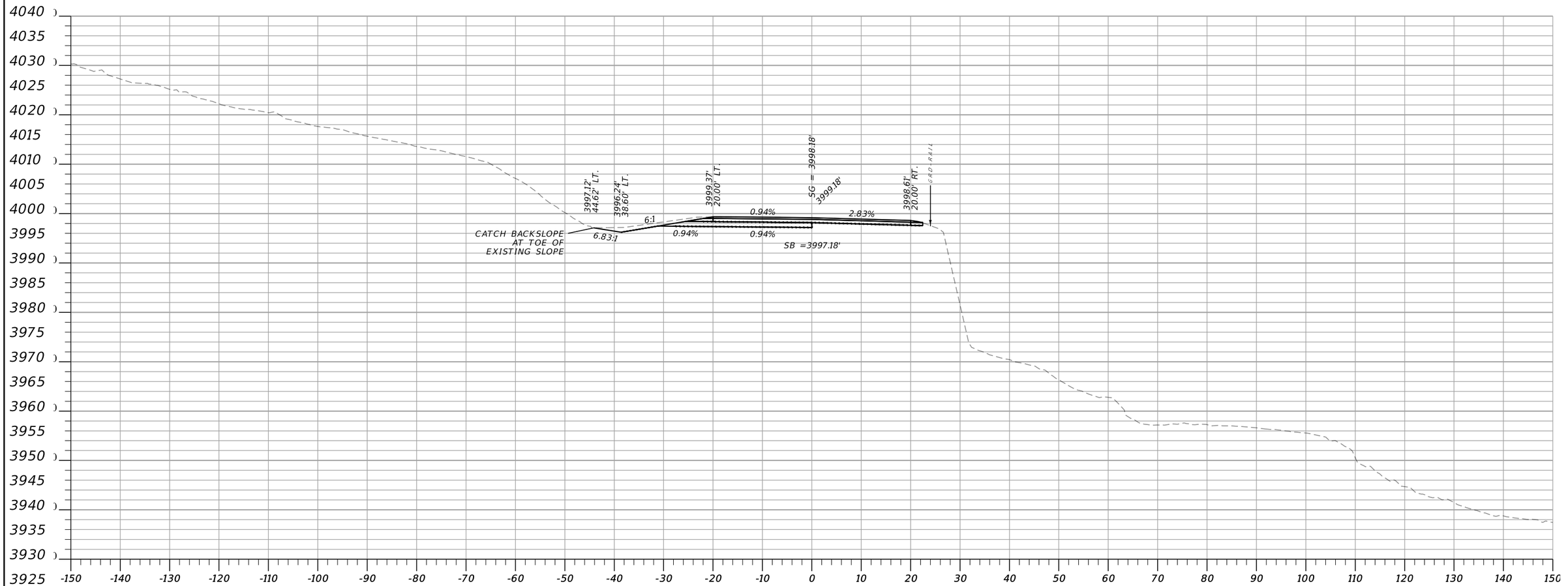
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|---|---|---|
| BIG MOUNTAIN ROAD | | STPS 487-1(17)4 |
| | UPN 9940000 | SHEET 1 |

AWARD COPY



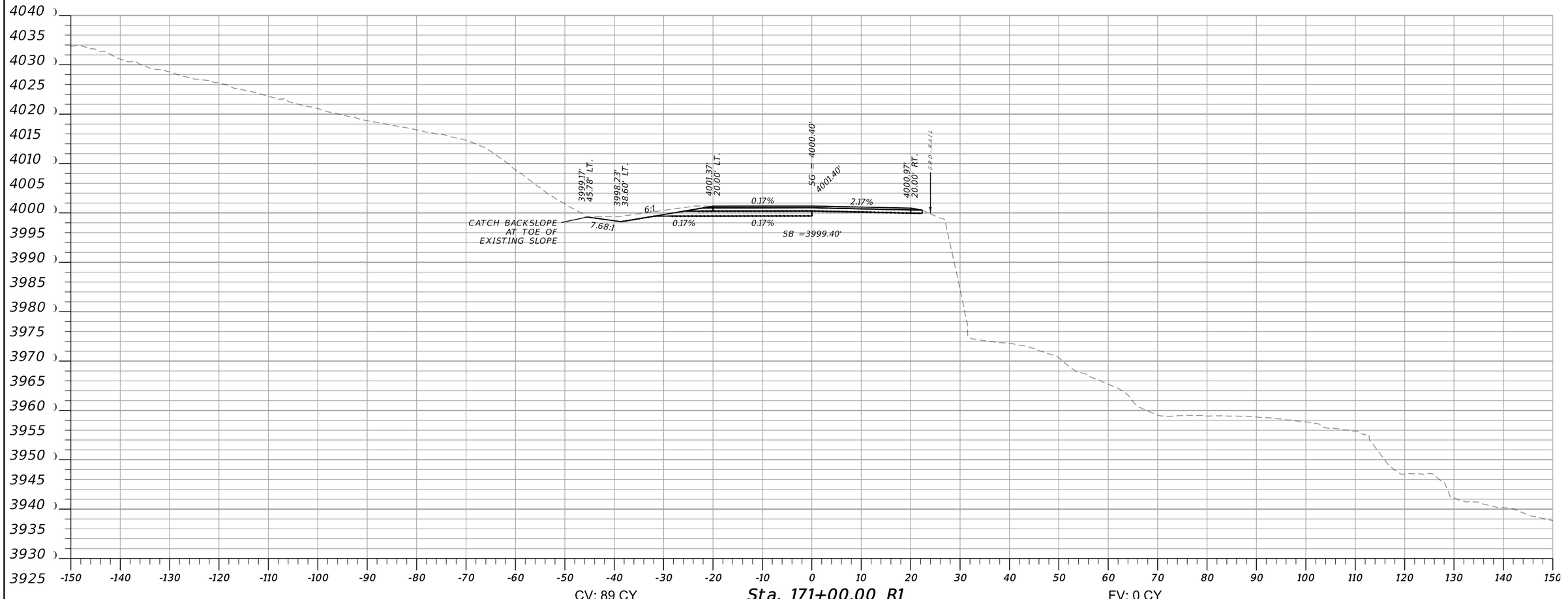

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|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn 12/13/2022 11:13:10 AM CPS - U419.1 | DESIGNED BY A. MASON 12/5/2022<br>REVIEWED BY<br>CHECKED BY | DIGOUT 2 CROSS SECTIONS<br>FLATHEAD COUNTY | PRELIMINARY | BIG MOUNTAIN ROAD<br>UPN 9940000 | STPS 487-1(17)4<br>SHEET 2 |

AWARD COPY




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|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 / SHEET 3 |
| | 11:13:15 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | | |

AWARD COPY




CV: 89 CY

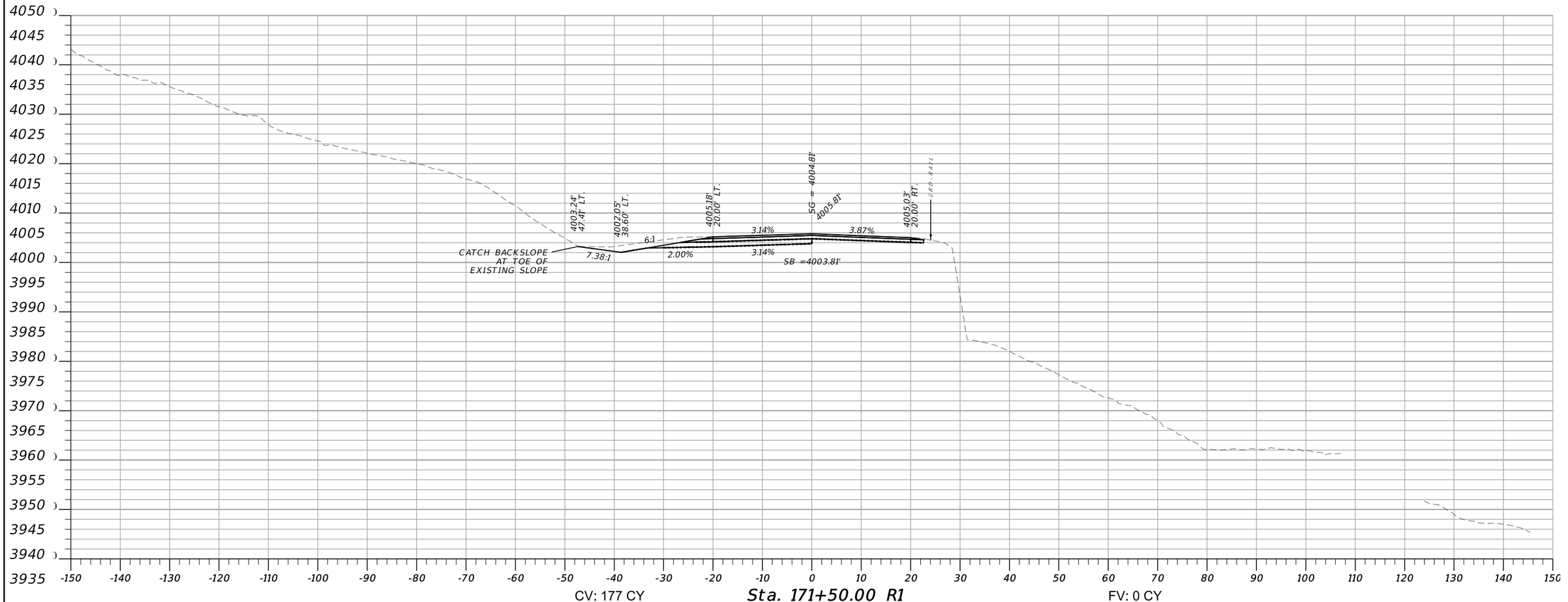
**Sta. 171+00.00 R1**

FV: 0 CY

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|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY |
| | 12/13/2022 | REVIEWED BY | | | | |
| | 11:13:20 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | |

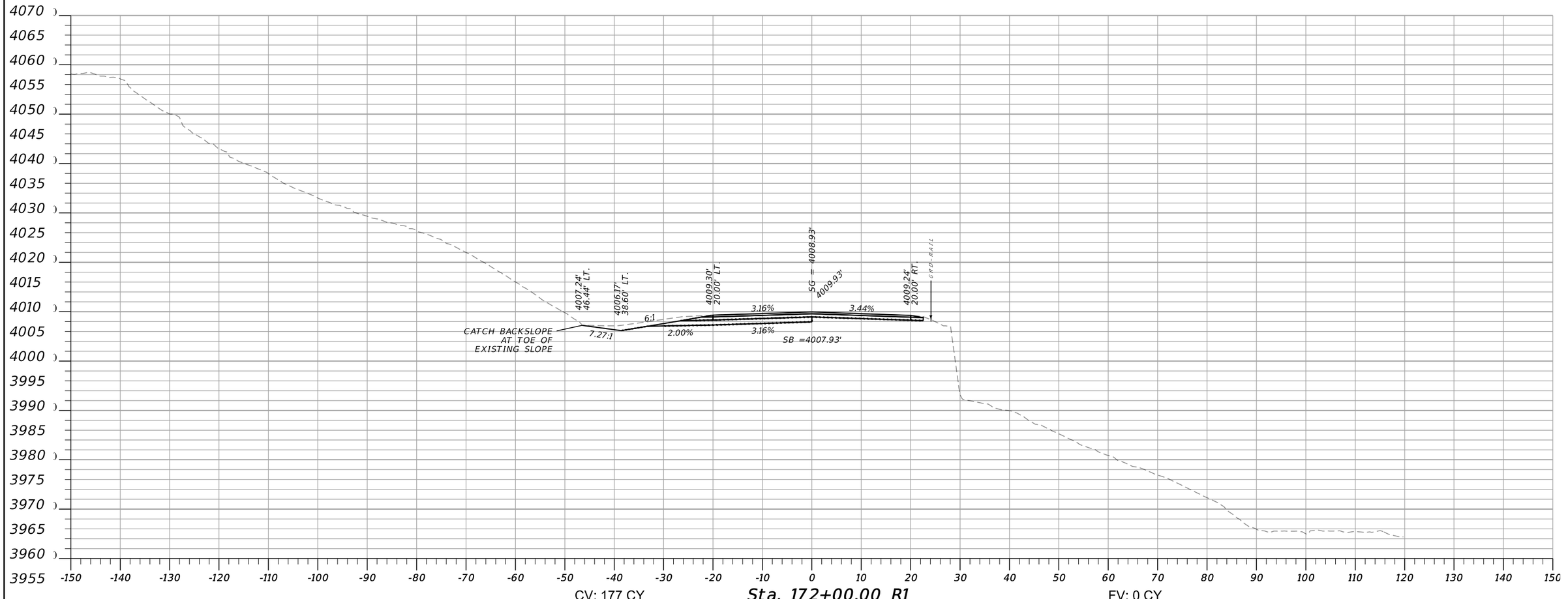
| | | |
|---|---|---|
| BIG MOUNTAIN ROAD | | STPS 487-1(17)4 |
| | UPN 9940000 | SHEET 4 |

AWARD COPY



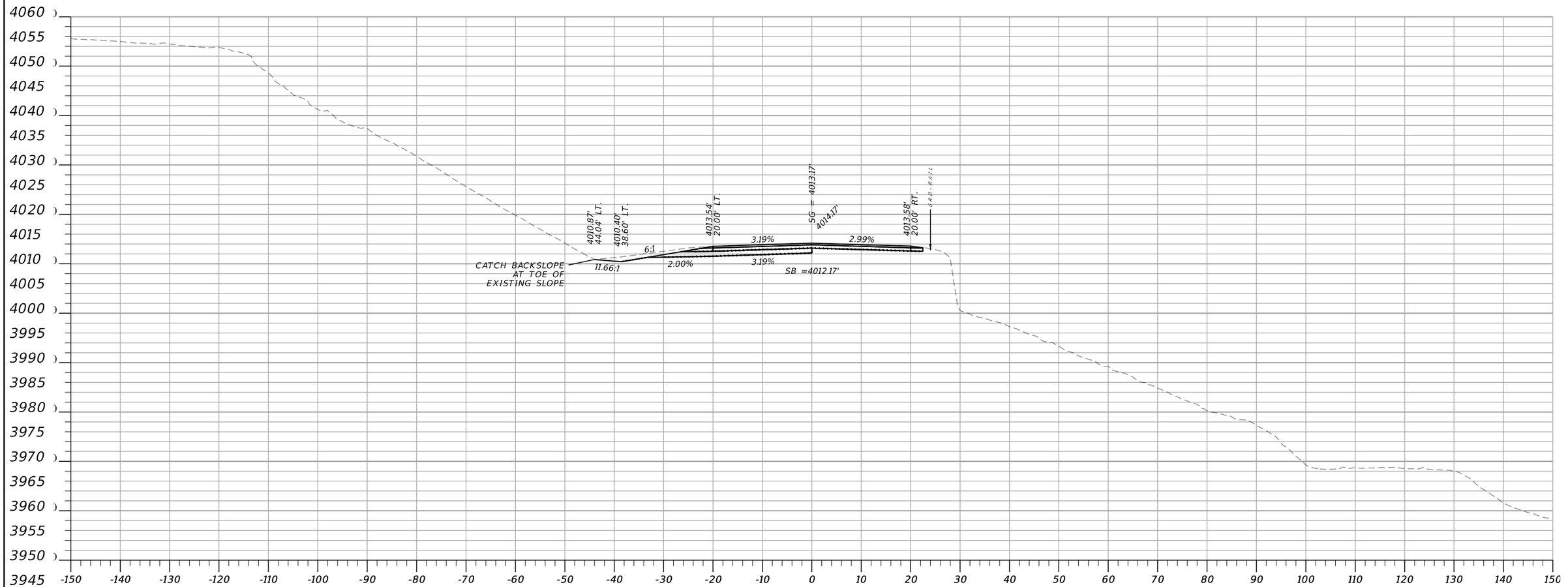

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|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD |
| | 12/13/2022 | REVIEWED BY | | | | | STPS 487-1(17)4 |
| | 11:13:25 AM CPS - U419 | CHECKED BY | | | FLATHEAD COUNTY | | UPN 9940000 SHEET 5 |

AWARD COPY




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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | UPN 9940000 / SHEET 6 |
| | 11:13:30 AM CPS - U419.1 | CHECKED BY | | FLATHEAD COUNTY | | |

AWARD COPY



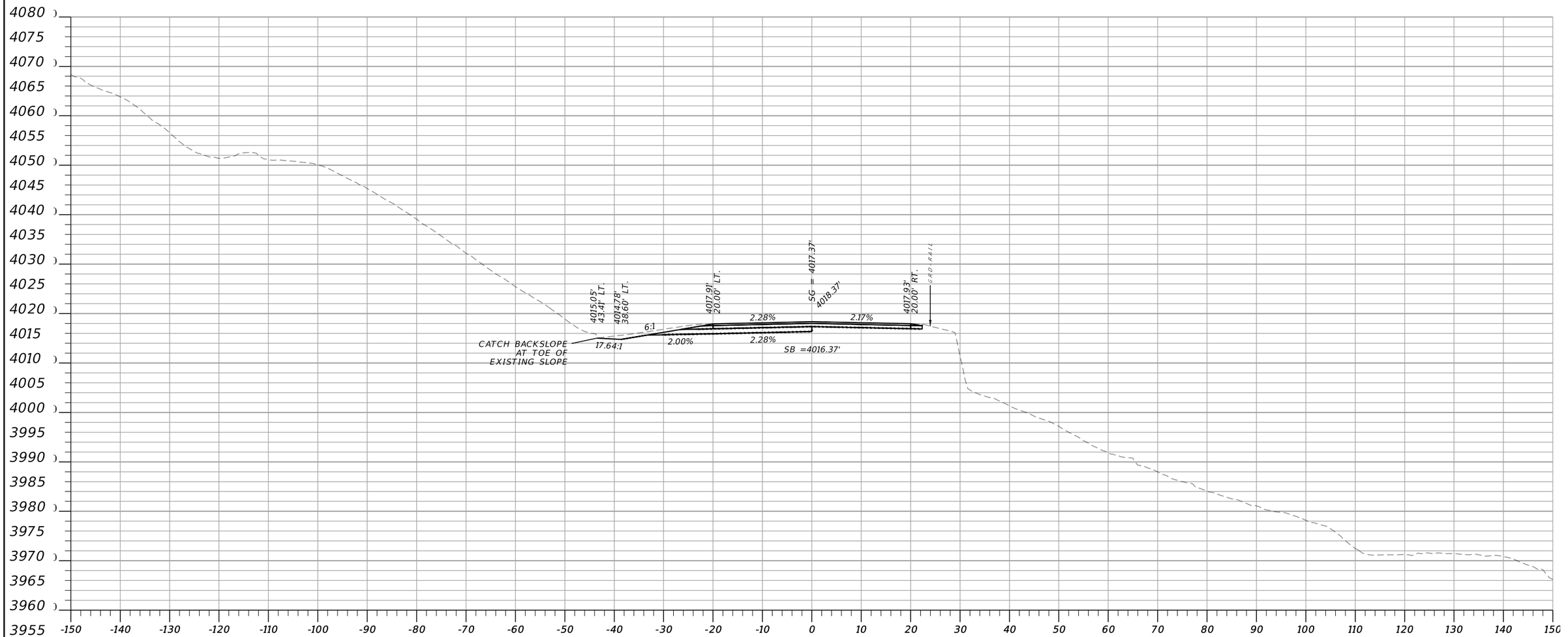

CV: 169 CY

**Sta. 172+50.00 R1**

FV: 0 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn 12/13/2022 11:13:35 AM CPS - U419.1 | DESIGNED BY A. MASON 12/5/2022<br>REVIEWED BY<br>CHECKED BY | DIGOUT 2 CROSS SECTIONS<br>FLATHEAD COUNTY | PRELIMINARY | BIG MOUNTAIN ROAD | STPS 487-1(17)4<br>UPN 9940000 | SHEET 7 |

AWARD COPY



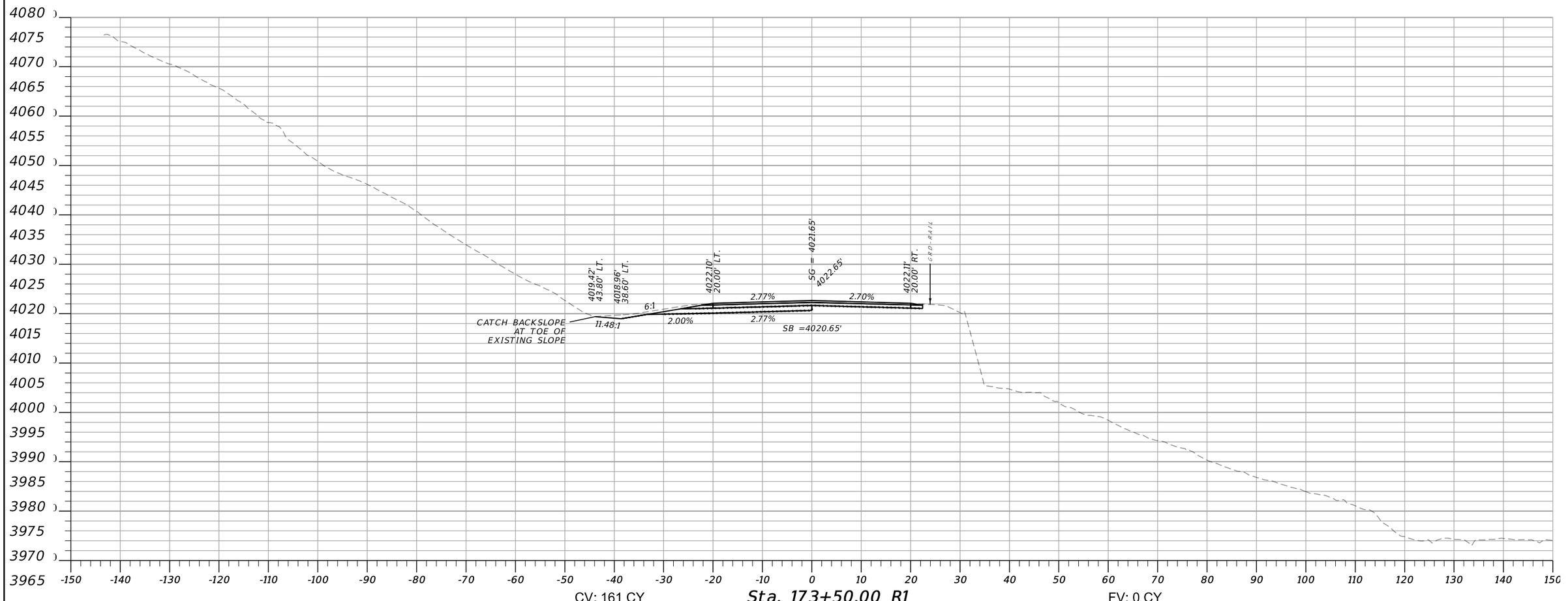

CV: 165 CY

**Sta. 173+00.00 R1**

FV: 0 CY

| | | | | | | |
|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | UPN 9940000 / SHEET 8 |
| | 11:13:40 AM CPS - U419.1 | CHECKED BY | | FLATHEAD COUNTY | | |

AWARD COPY



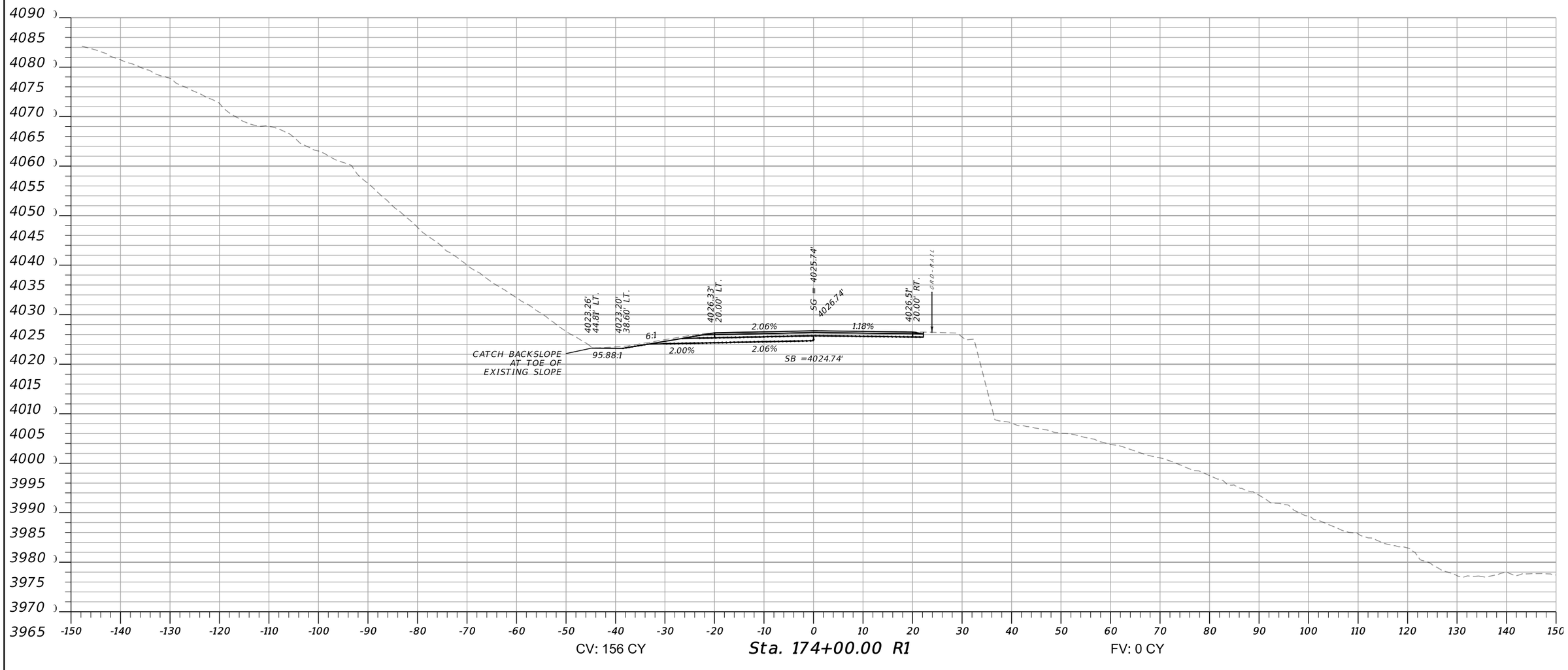

CV: 161 CY

**Sta. 173+50.00 R1**

FV: 0 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | | |
| | 11:13:45 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | | UPN 9940000 | SHEET 9 |

AWARD COPY



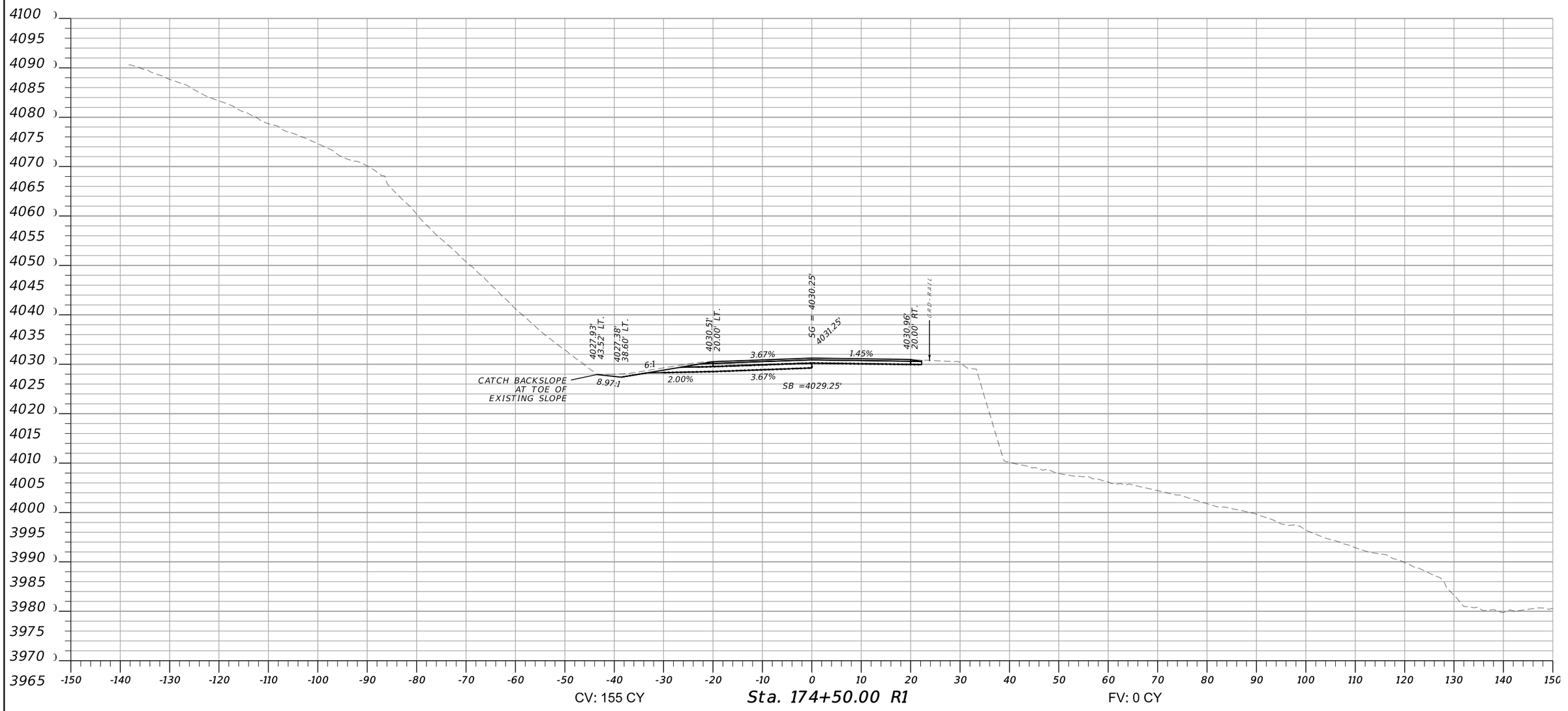

CV: 156 CY

**Sta. 174+00.00 R1**

FV: 0 CY

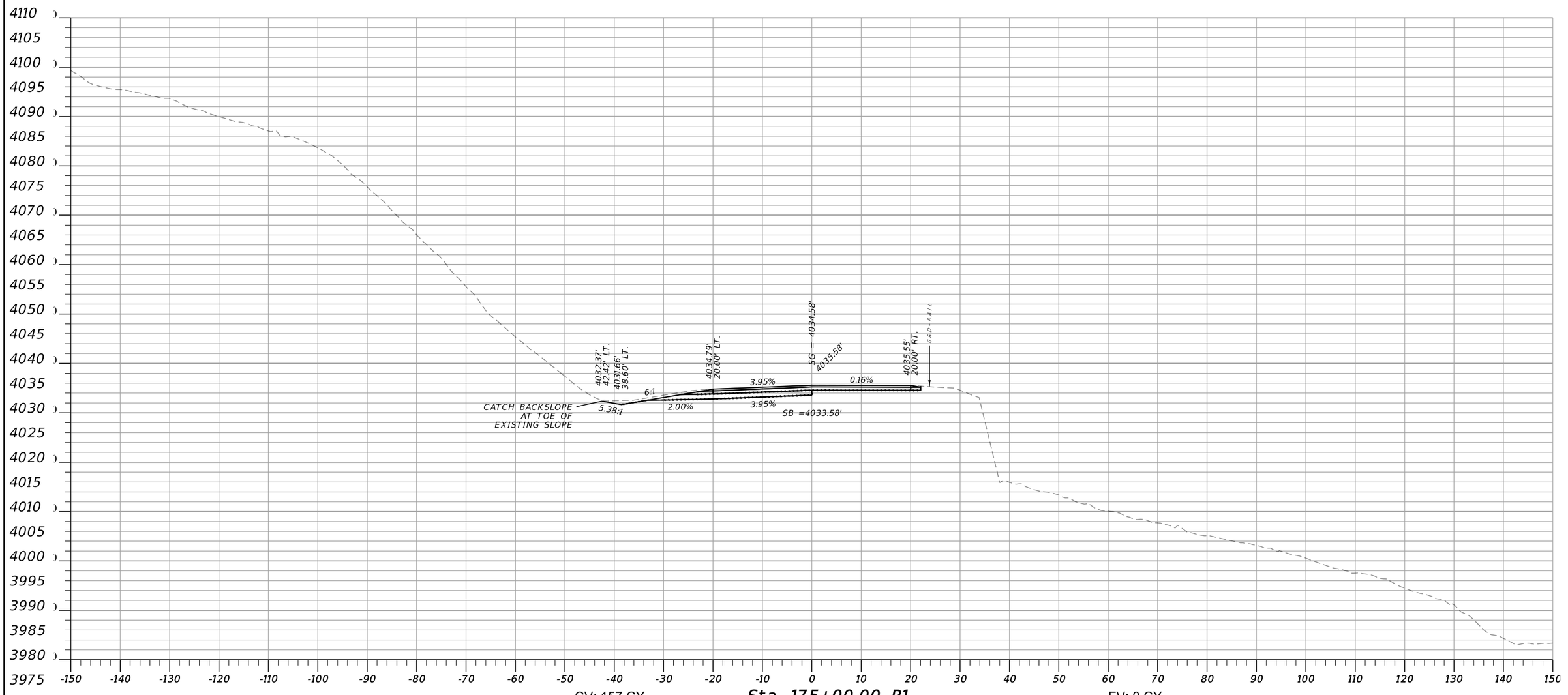
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 / SHEET 10 |
| | 11:13:50 AM CPS - U419 | CHECKED BY | | | FLATHEAD COUNTY | | |

AWARD COPY




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|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 |
| | 11:13:56 AM CPS - U4191 | CHECKED BY | | | FLATHEAD COUNTY | | STPS 487-1(17)4 |
| | | | | | | | SHEET 11 |

AWARD COPY




CV: 157 CY

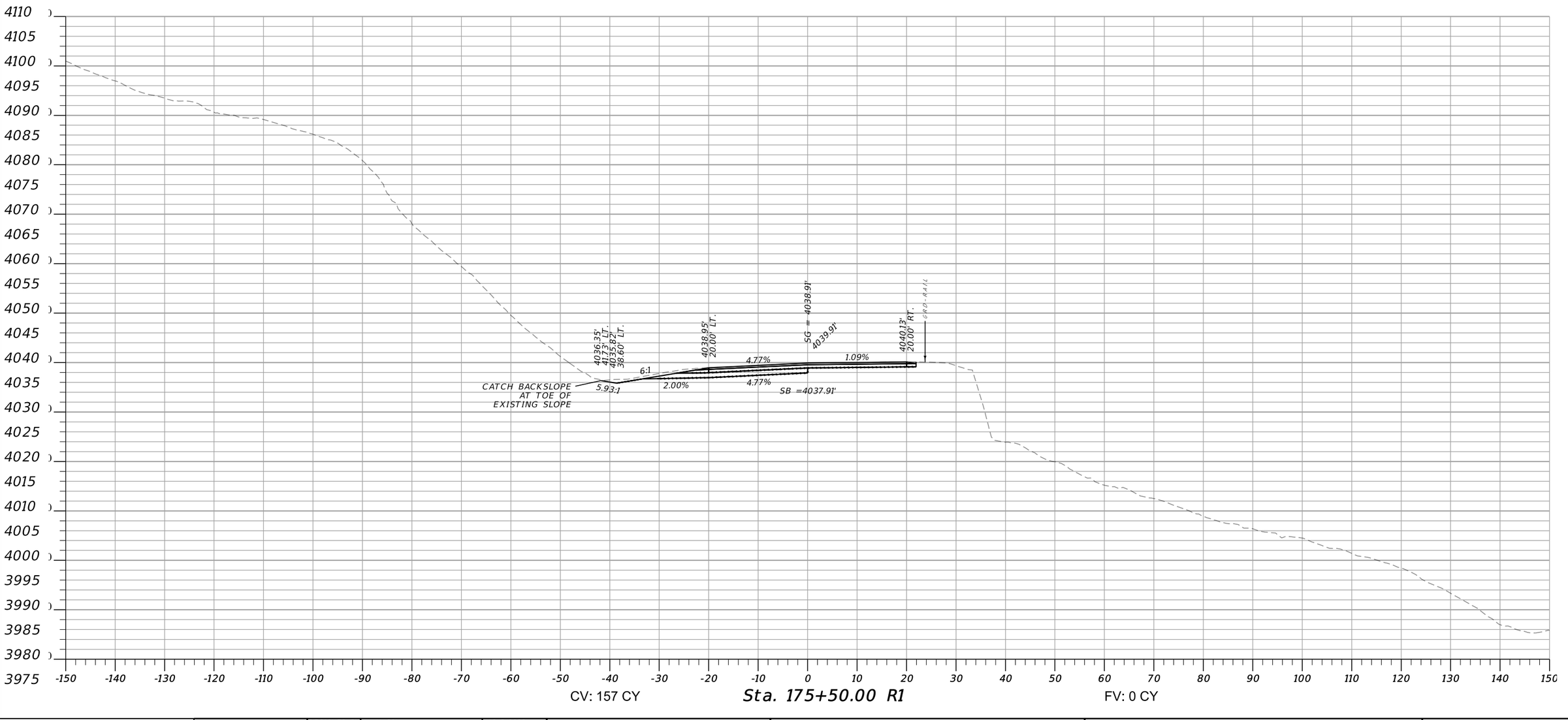
**Sta. 175+00.00 R1**

FV: 0 CY

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| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY |
| | 12/13/2022 | REVIEWED BY | | | | |
| | 11:14:01 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | |

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|---|---|---|
| BIG MOUNTAIN ROAD | | STPS 487-1(17)4 |
| | UPN 9940000 | SHEET 12 |

AWARD COPY



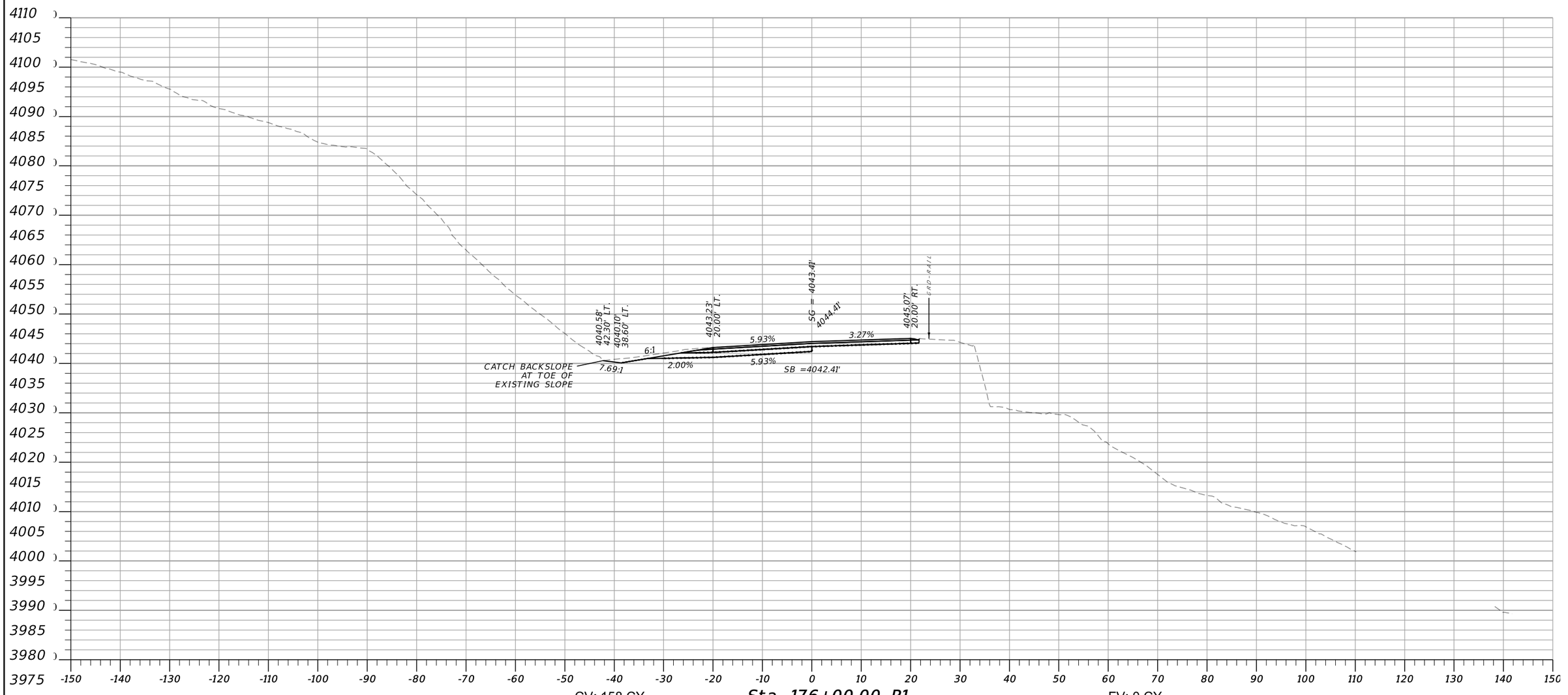

CV: 157 CY

**Sta. 175+50.00 R1**

FV: 0 CY

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|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 / SHEET 13 |
| | 11:14:06 AM CPS - U419 | CHECKED BY | | | FLATHEAD COUNTY | | |

AWARD COPY



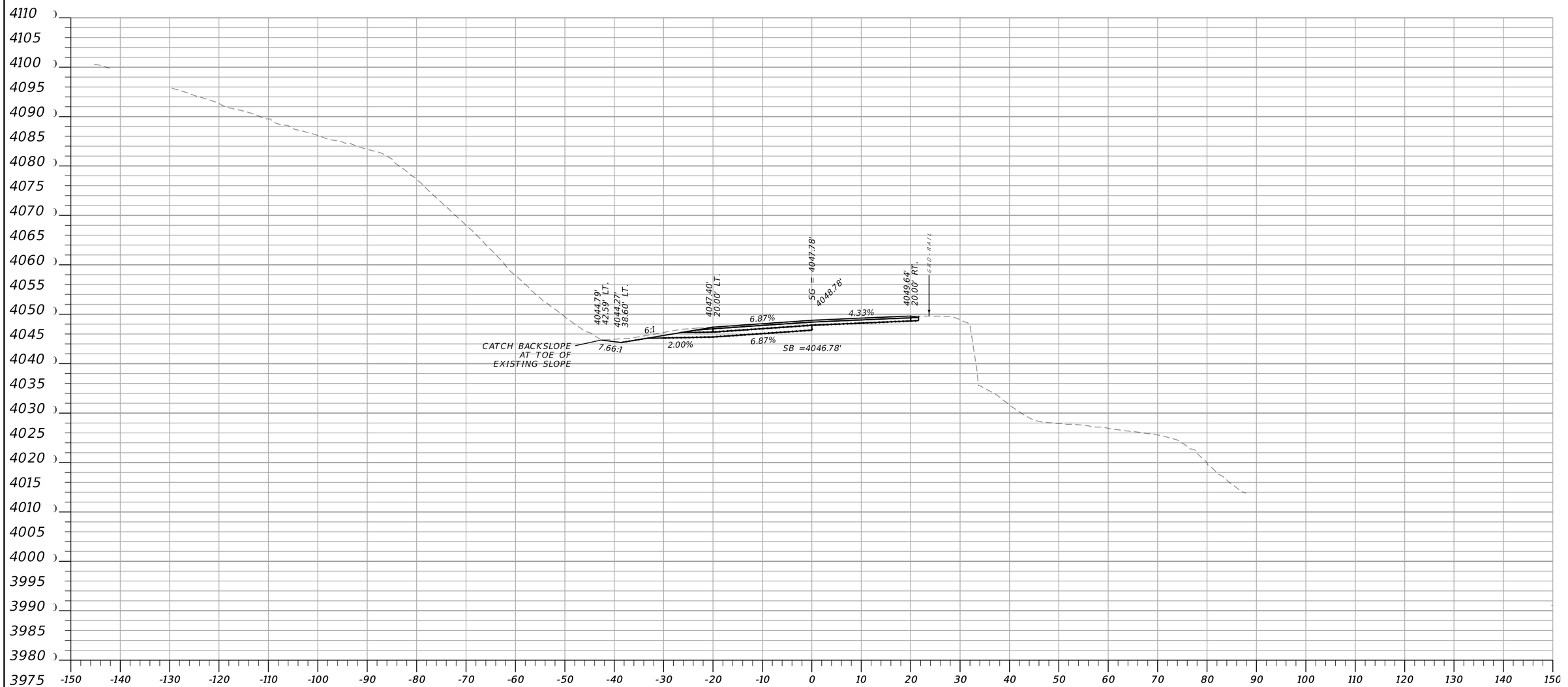

CV: 158 CY

**Sta. 176+00.00 R1**

FV: 0 CY

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|---|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 / SHEET 14 |
| | 11:14:11 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | | |

AWARD COPY



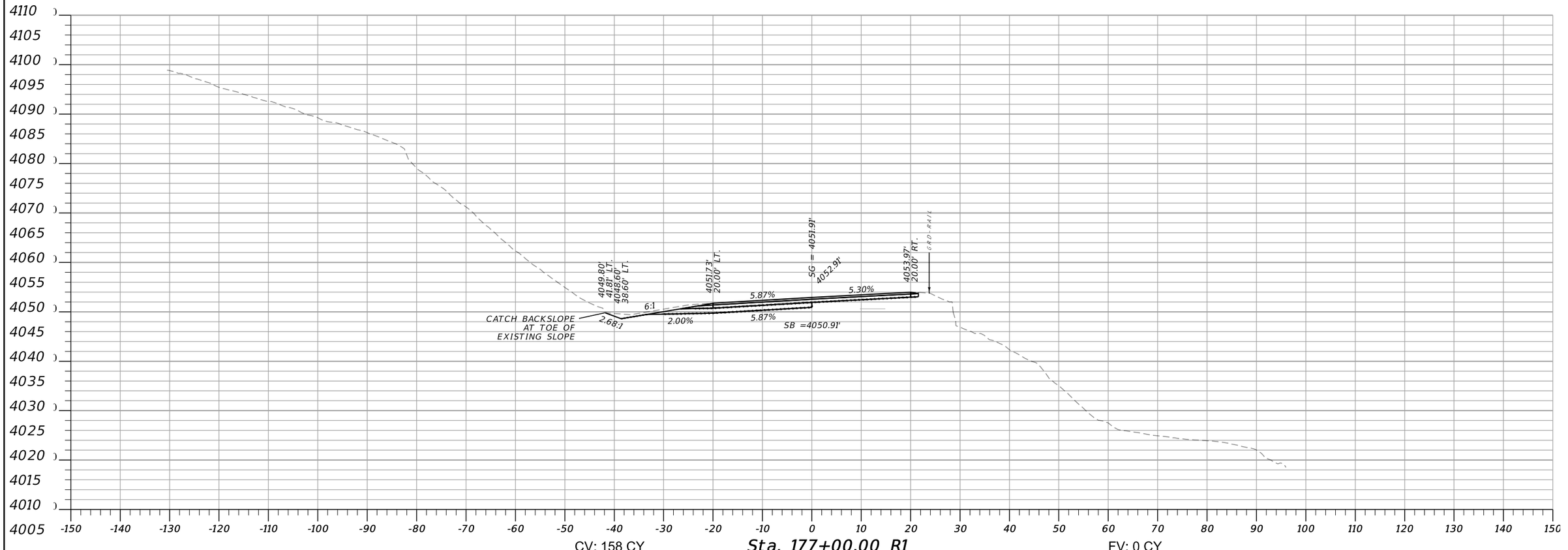

CV: 160 CY

**Sta. 176+50.00 R1**

FV: 0 CY

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|---|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn 12/13/2022 11:14:16 AM CPS - U419.1 | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / UPN 9940000 | STPS 487-1(17)4 / SHEET 15 |
| | | REVIEWED BY | | | | | | |
| | | CHECKED BY | | | FLATHEAD COUNTY | | | |

AWARD COPY



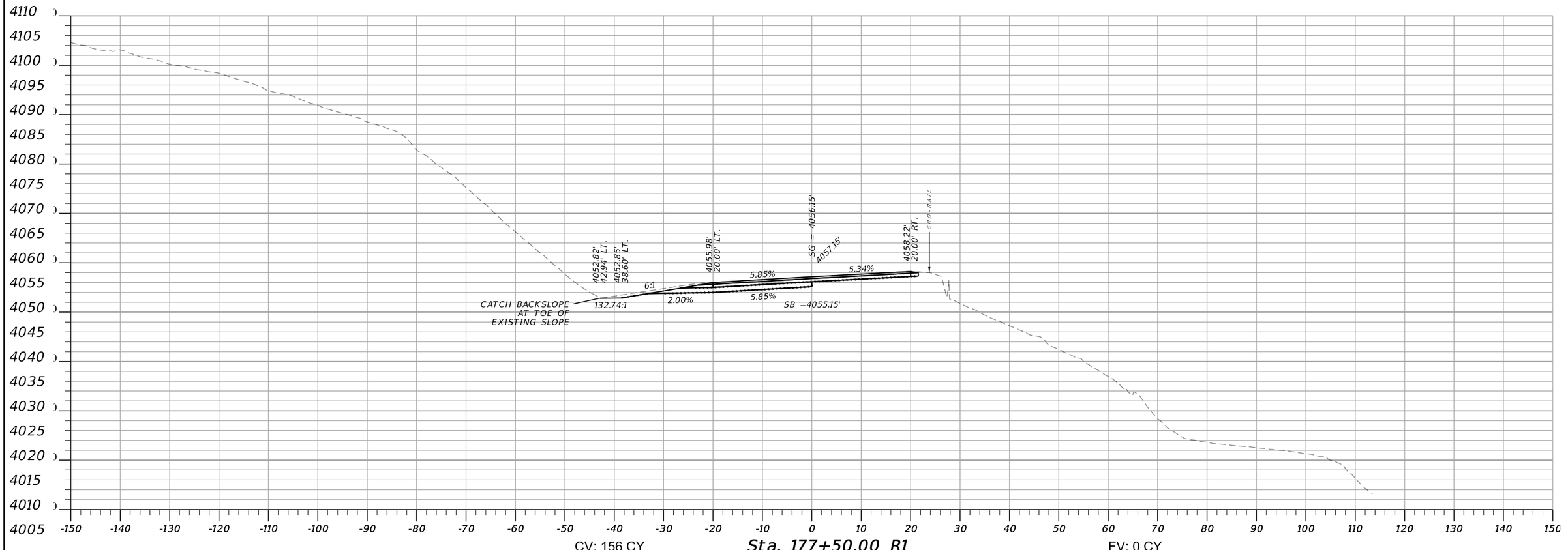

CV: 158 CY

**Sta. 177+00.00 R1**

FV: 0 CY

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|---|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD | STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | | |
| | 11:14:21 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | | UPN 9940000 | SHEET 16 |

AWARD COPY



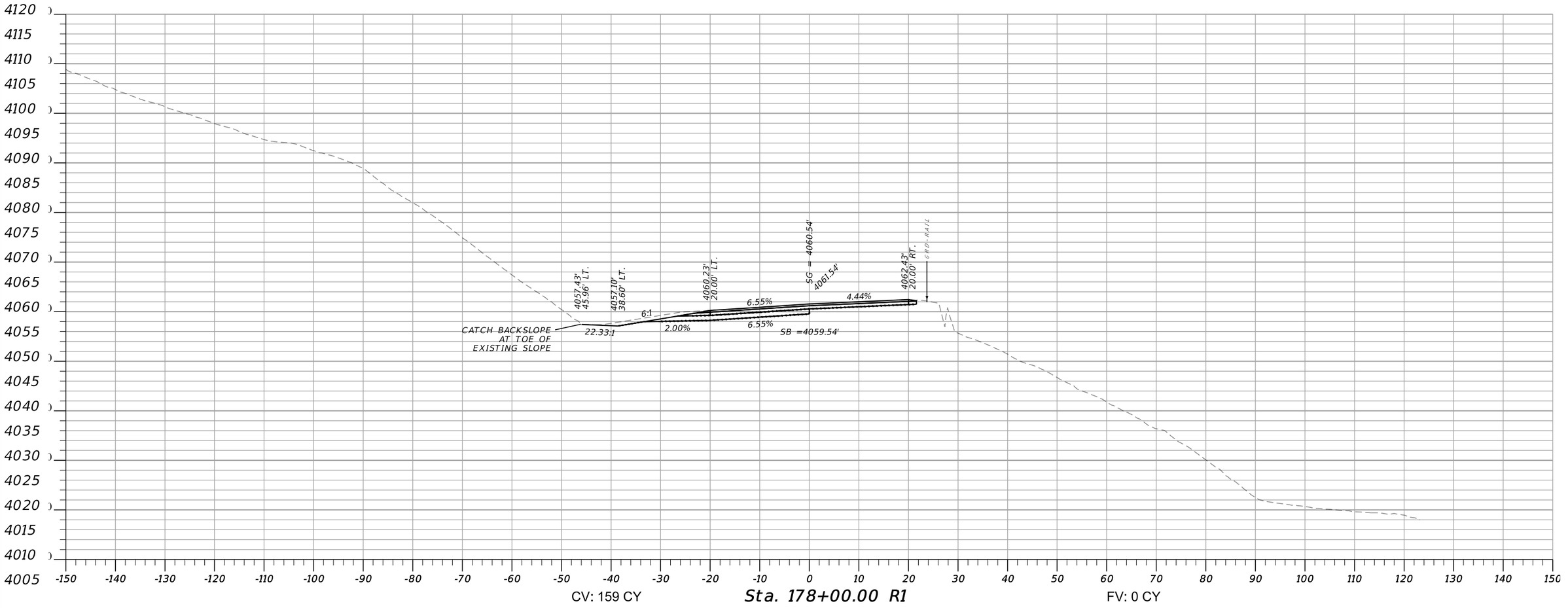

CV: 156 CY

**Sta. 177+50.00 R1**

FV: 0 CY

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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn<br>12/13/2022<br>11:14:26 AM CPS - U419.1 | DESIGNED BY A. MASON 12/5/2022<br>REVIEWED BY<br>CHECKED BY | DIGOUT 2 CROSS SECTIONS<br>FLATHEAD COUNTY | PRELIMINARY | BIG MOUNTAIN ROAD<br>UPN 9940000 | STPS 487-1(17)4<br>SHEET 17 |

AWARD COPY



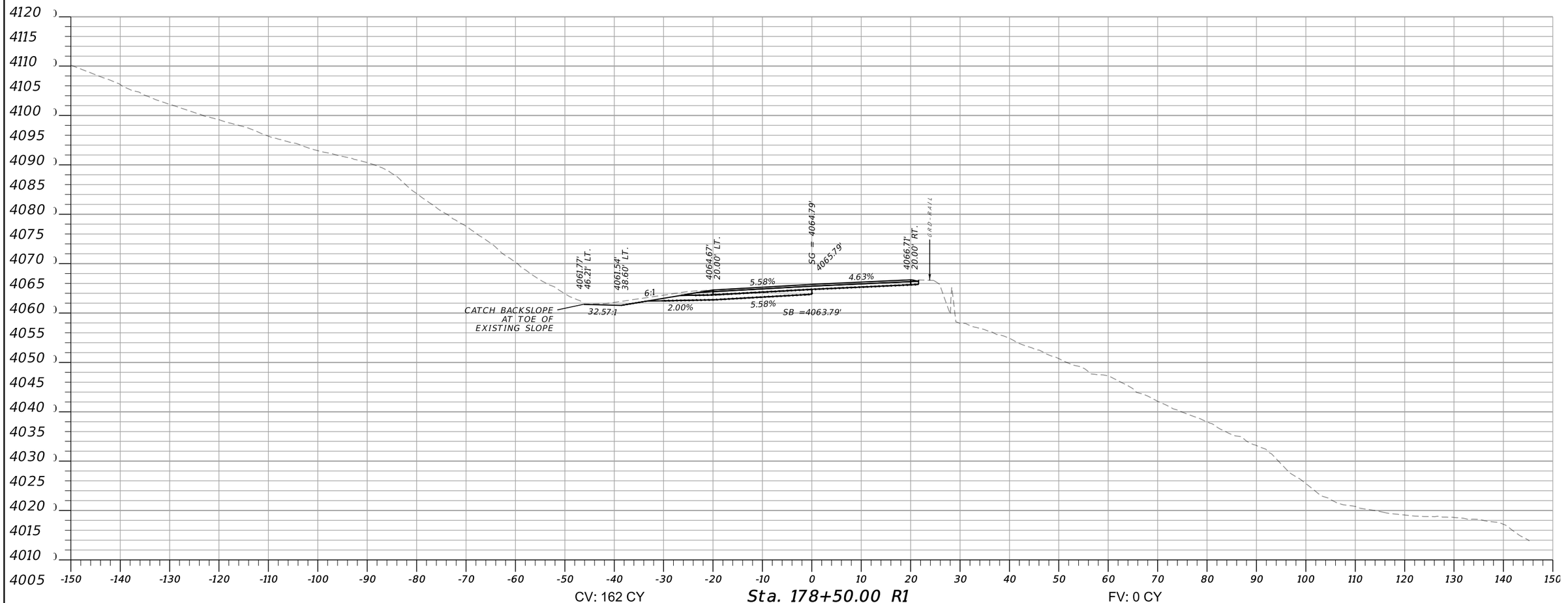

CV: 159 CY

**Sta. 178+00.00 R1**

FV: 0 CY

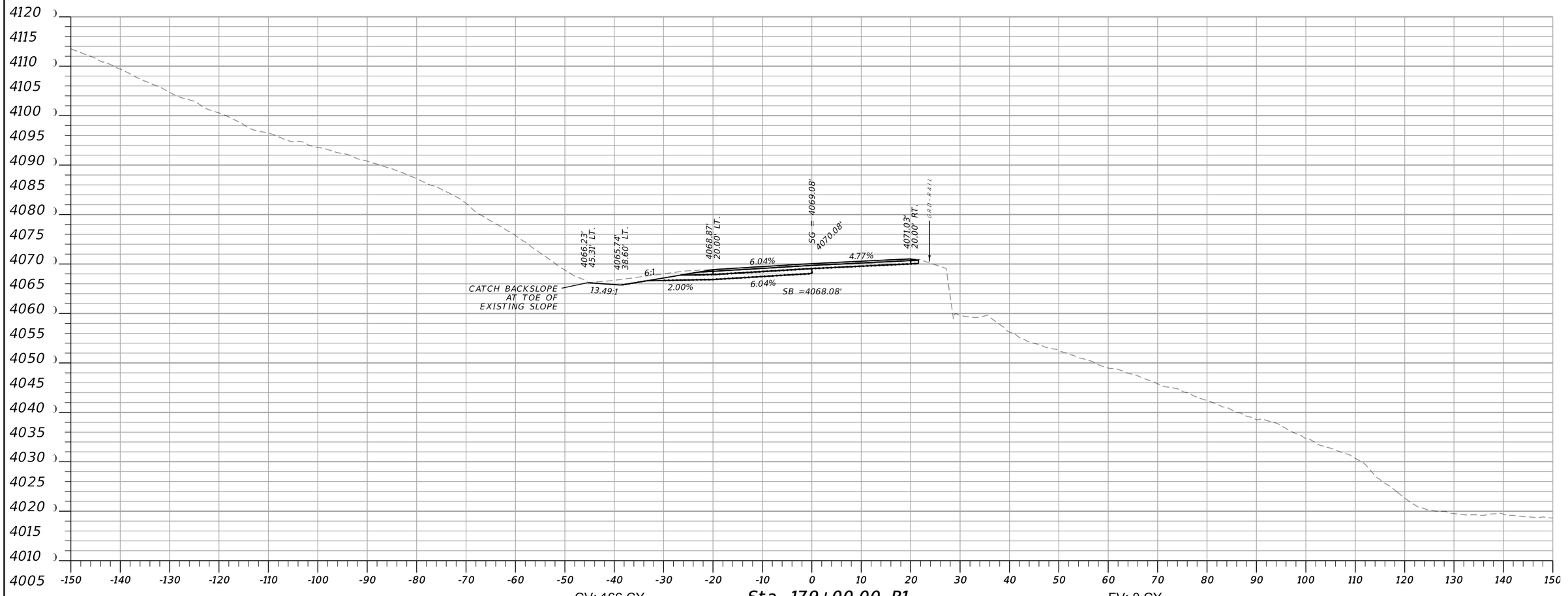
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 / SHEET 18 |
| | 11:14:31 AM CPS - U419 | CHECKED BY | | | FLATHEAD COUNTY | | |

AWARD COPY




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|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 / SHEET 19 |
| | 11:14:36 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | | |

AWARD COPY




CV: 166 CY

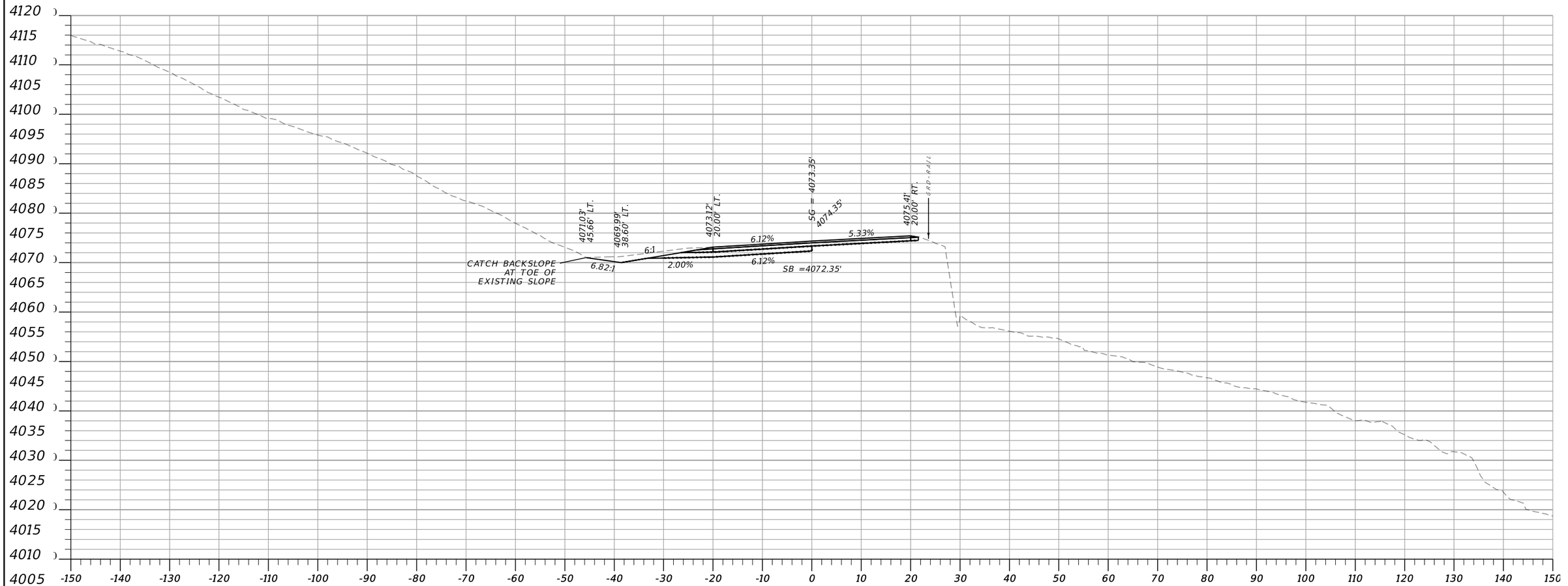
**Sta. 179+00.00 R1**

FV: 0 CY

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|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY |
| | 12/13/2022 | REVIEWED BY | | | | |
| | 11:14:41 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | |

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|---|---|---|
| BIG MOUNTAIN ROAD | | STPS 487-1(17)4 |
| | UPN 9940000 | SHEET 20 |

AWARD COPY



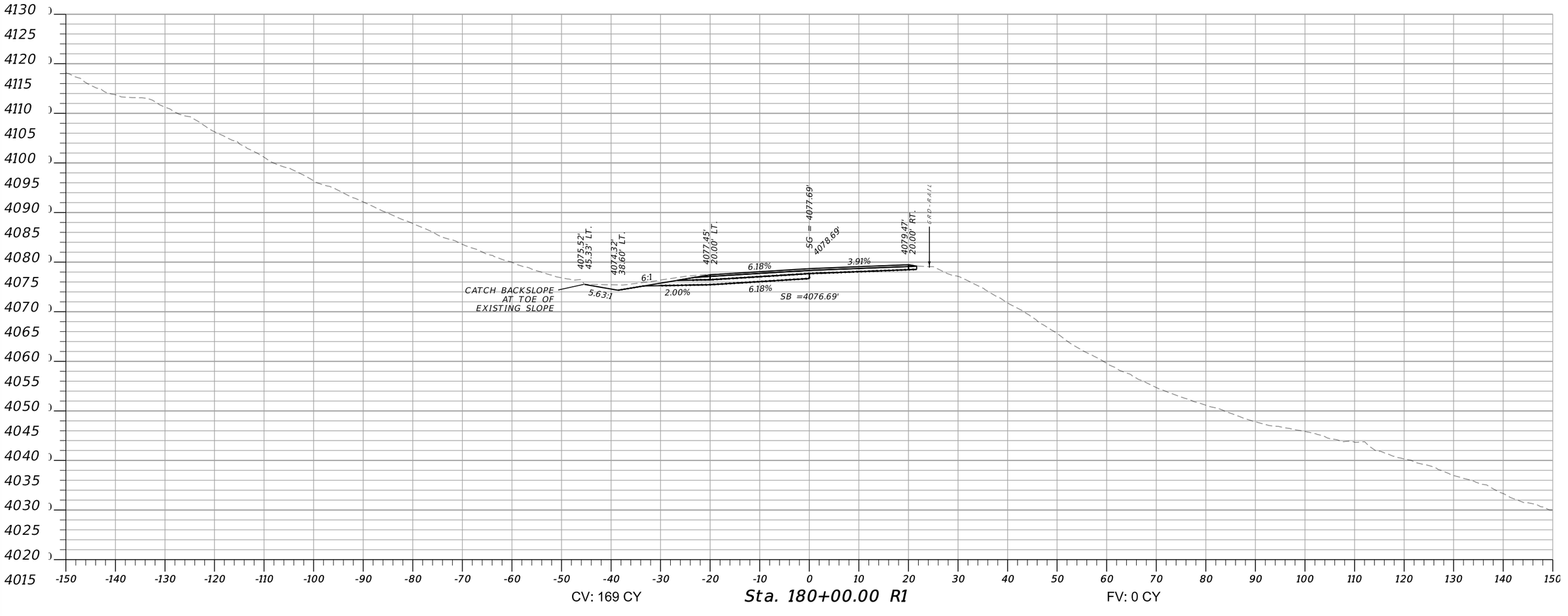

CV: 172 CY

**Sta. 179+50.00 R1**

FV: 0 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | |
| | 11:14:46 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | | UPN 9940000 / SHEET 21 |

AWARD COPY



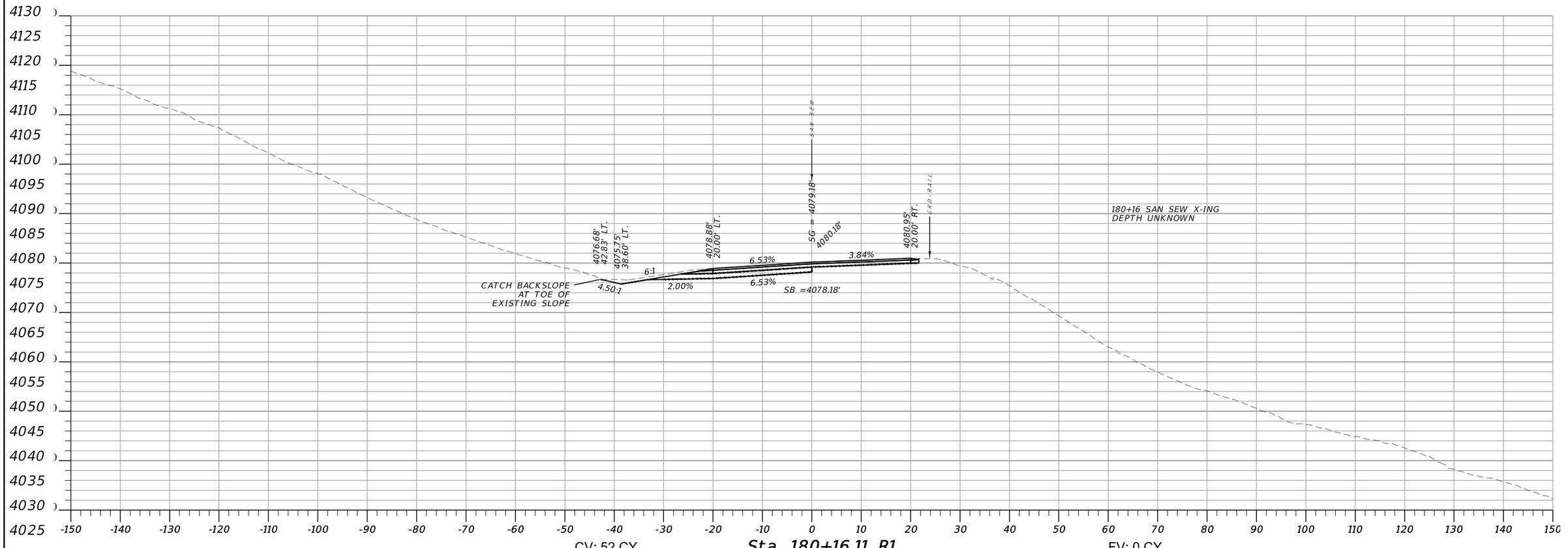

CV: 169 CY

**Sta. 180+00.00 R1**

FV: 0 CY

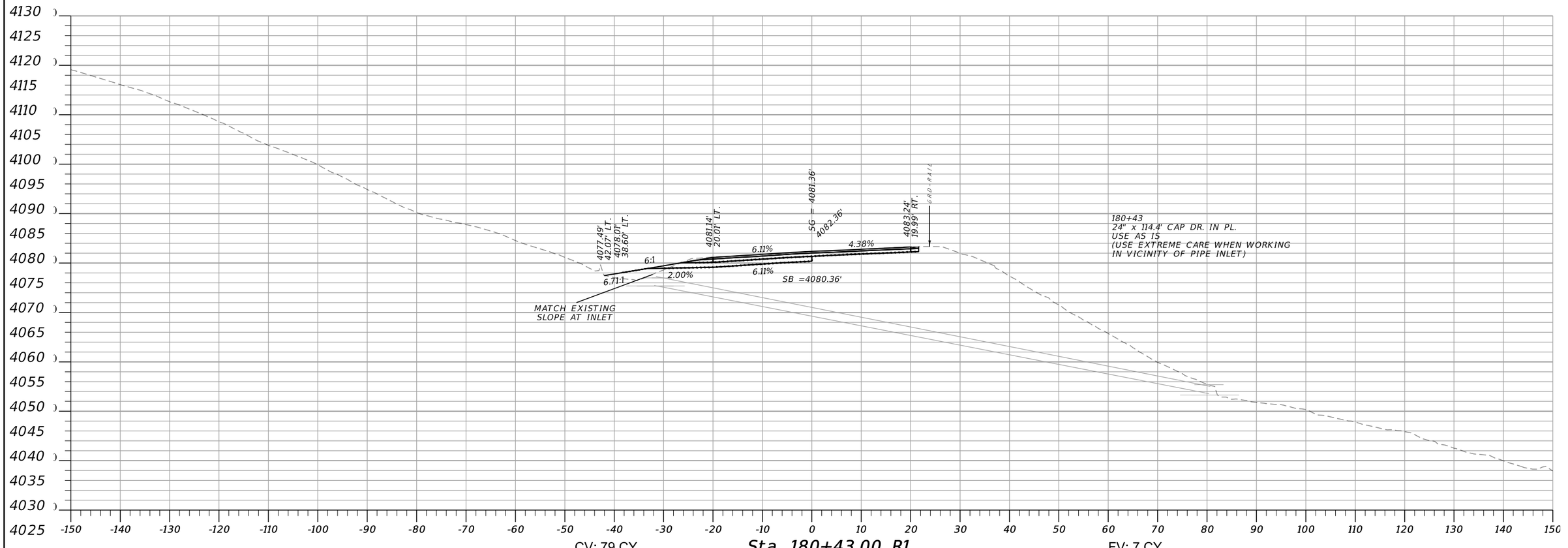
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | | UPN 9940000 / SHEET 22 |
| | 11:14:52 AM CPS - U419 | CHECKED BY | | | FLATHEAD COUNTY | | |

AWARD COPY



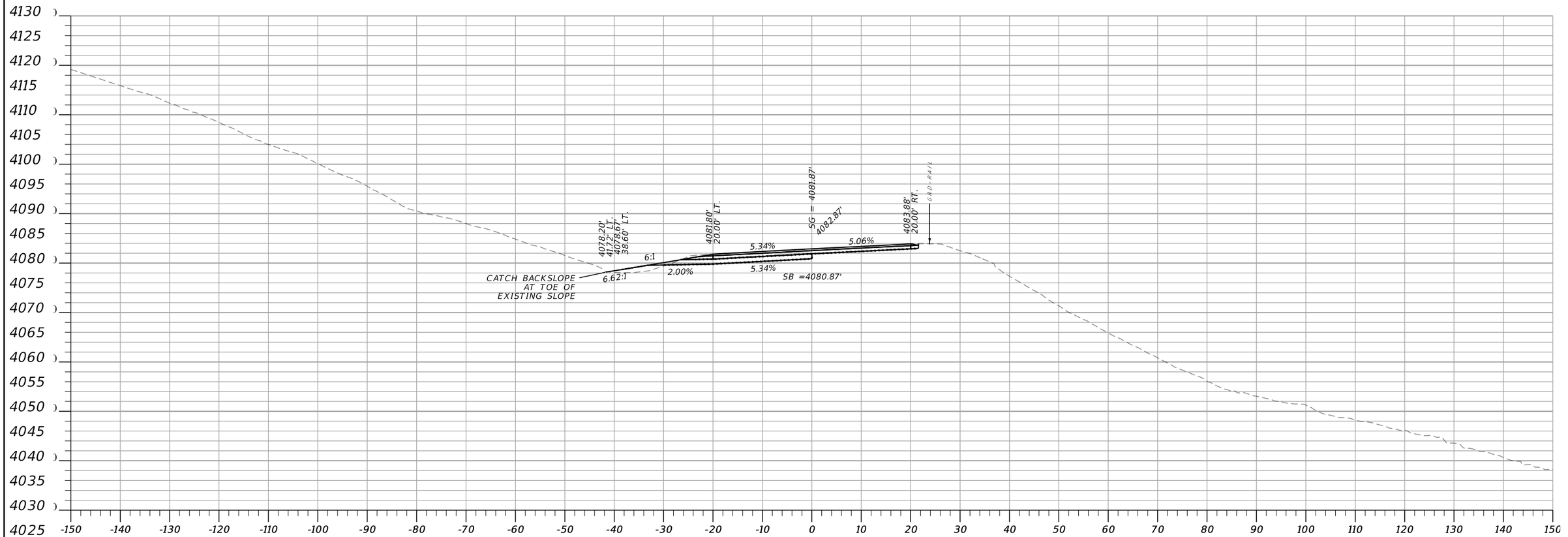

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| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn<br>12/13/2022<br>11:14:57 AM CPS - U419.1 | DESIGNED BY A. MASON 12/5/2022<br>REVIEWED BY<br>CHECKED BY | DIGOUT 2 CROSS SECTIONS<br>FLATHEAD COUNTY | PRELIMINARY | BIG MOUNTAIN ROAD<br>UPN 9940000 | STPS 487-1(17)4<br>SHEET 23 |

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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | UPN 9940000 / SHEET 24 |
| | 11:15:02 AM CPS - U419.1 | CHECKED BY | | FLATHEAD COUNTY | | |

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CV: 19 CY

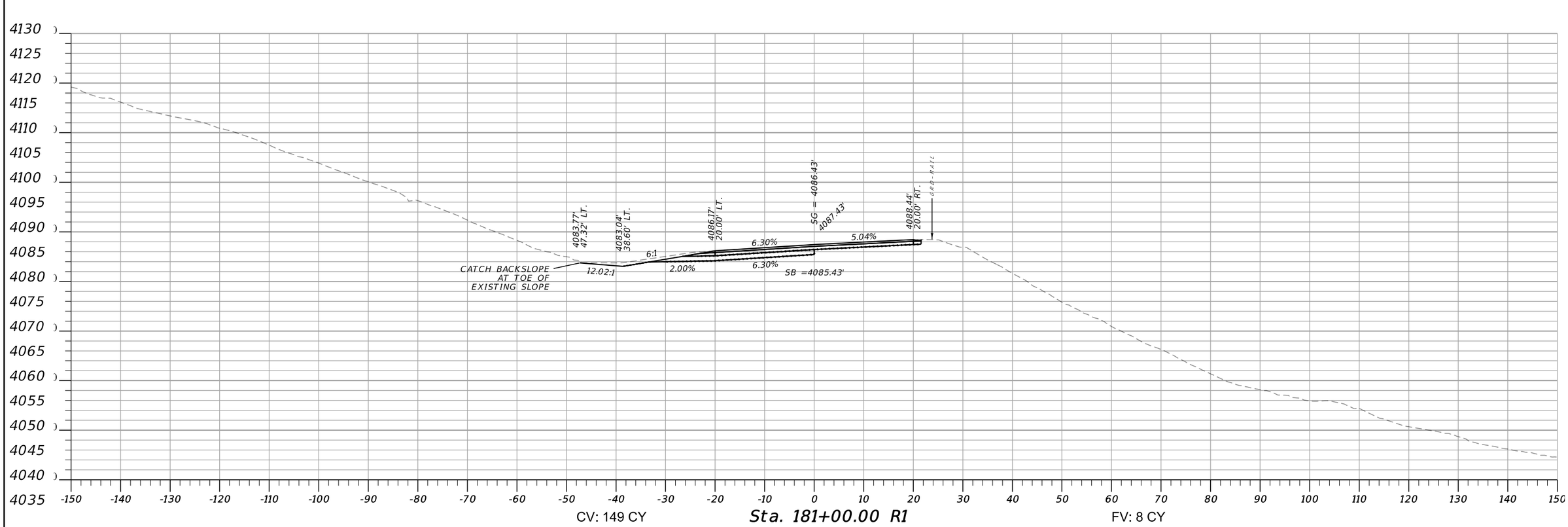
**Sta. 180+50.00 R1**

FV: 3 CY

| | | | | | | |
|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY |
| | 12/13/2022 | REVIEWED BY | | | | |
| | 11:15:07 AM CPS - U419.1 | CHECKED BY | | | FLATHEAD COUNTY | |

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|---|---|---|
| BIG MOUNTAIN ROAD | | STPS 487-1(17)4 |
| | UPN 9940000 | SHEET 25 |

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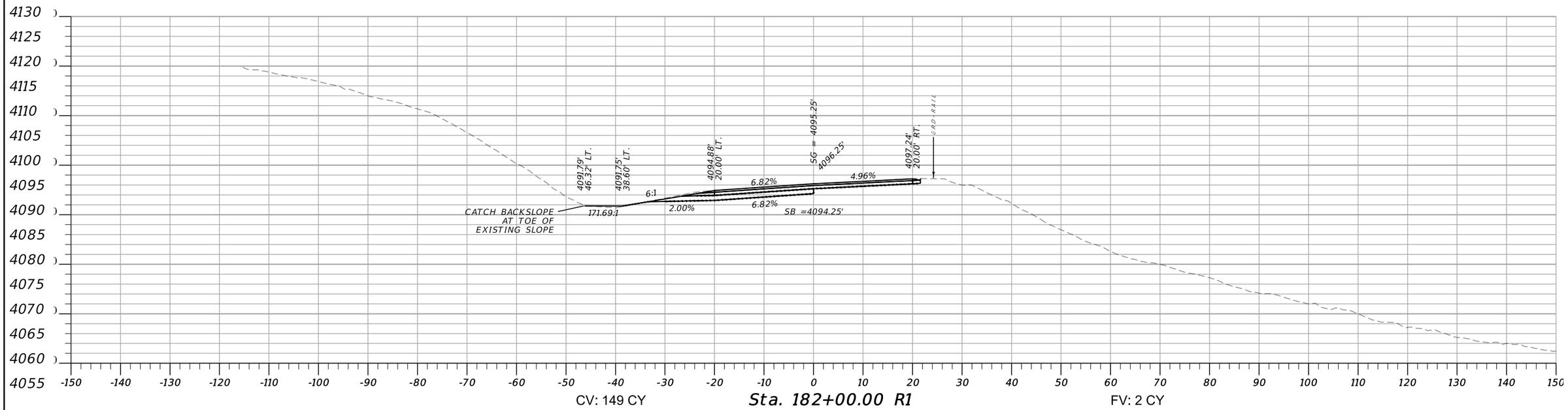

CV: 149 CY

**Sta. 181+00.00 R1**

FV: 8 CY

| | | | | | | |
|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY | A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | BIG MOUNTAIN ROAD |
| | 12/13/2022 | REVIEWED BY | | | FLATHEAD COUNTY | UPN 9940000 |
| | 11:15:12 AM CPS - U419.1 | CHECKED BY | | | PRELIMINARY | STPS 487-1(17)4 |
| | | | | | | SHEET 26 |

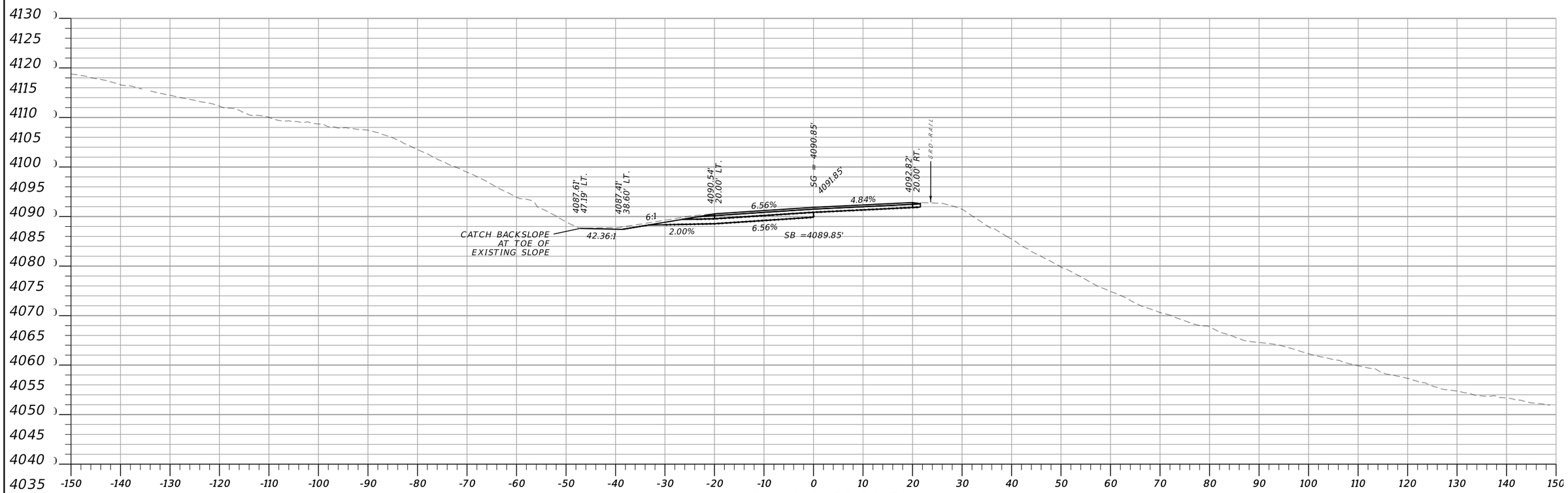
AWARD COPY




CV: 149 CY

***Sta. 182+00.00 R1***

FV: 2 CY



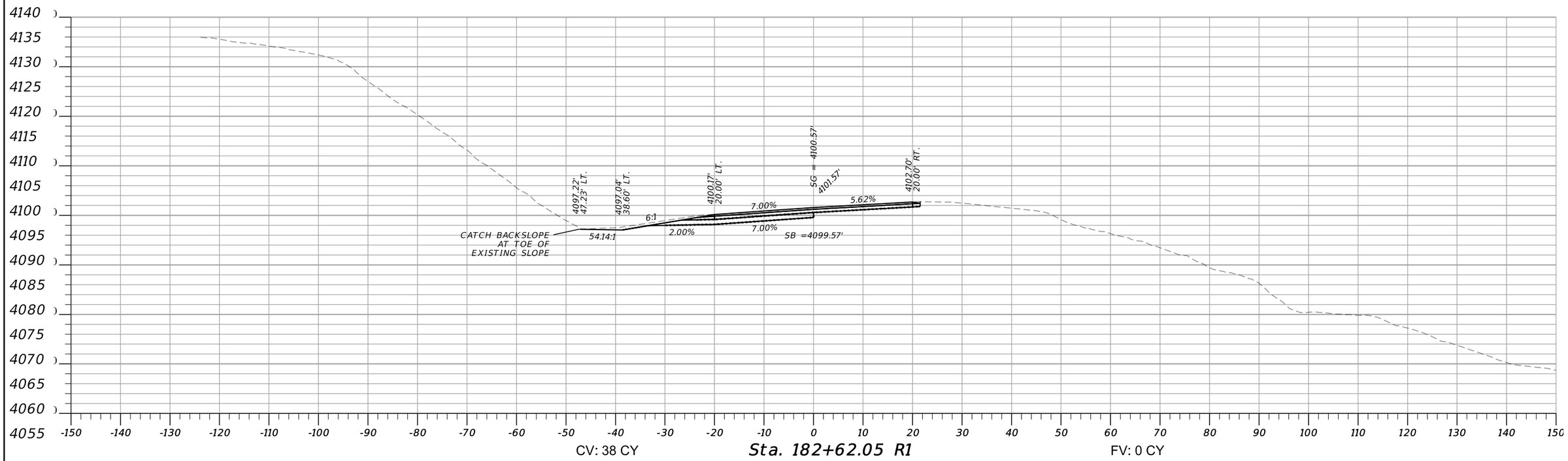

CV: 158 CY

***Sta. 181+50.00 R1***

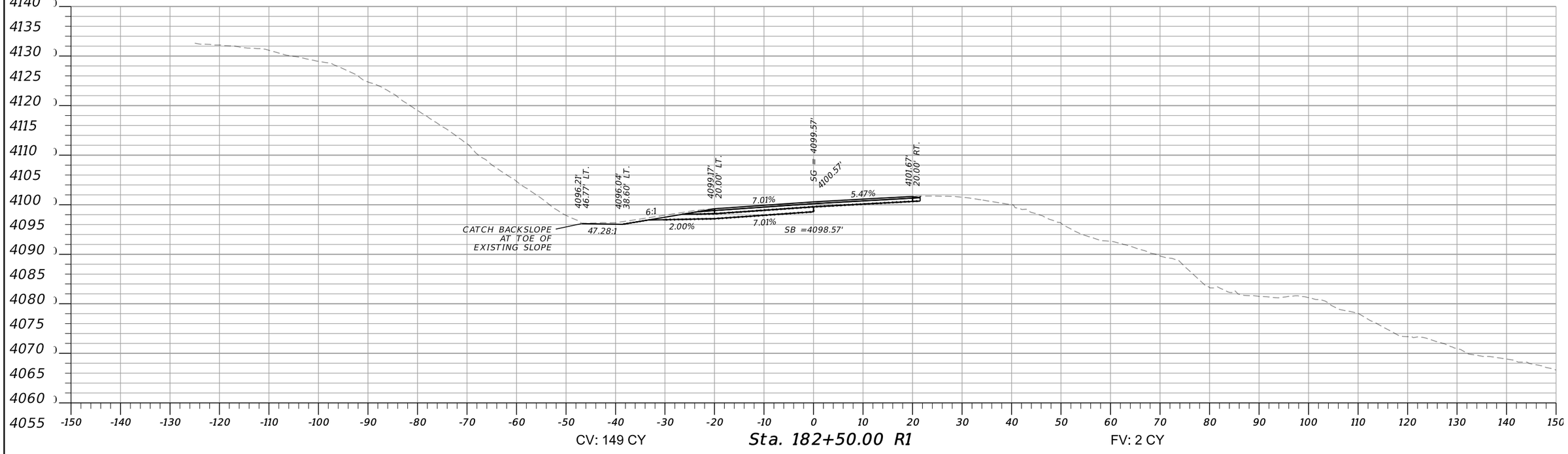
FV: 0 CY

| | | | | | | |
|---|---|---|---|---|---|---|
| **MONTANA** Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY A. MASON | 12/5/2022 | *DIGOUT 2 CROSS SECTIONS* | *PRELIMINARY* | *BIG MOUNTAIN ROAD* / *STPS 487-1(17)4* |
| | 12/13/2022 | REVIEWED BY | | | | *UPN 9940000* / *SHEET 27* |
| | 11:15:17 AM CPS - U419.7 | CHECKED BY | | *FLATHEAD COUNTY* | | |

AWARD COPY



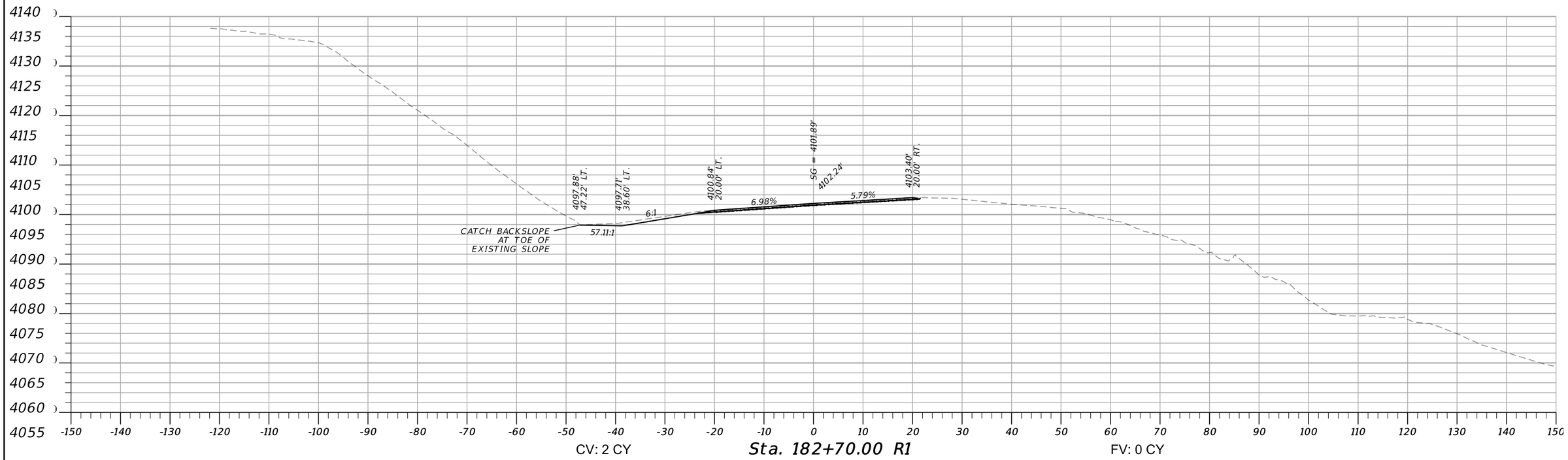

CV: 38 CY **Sta. 182+62.05 R1** FV: 0 CY



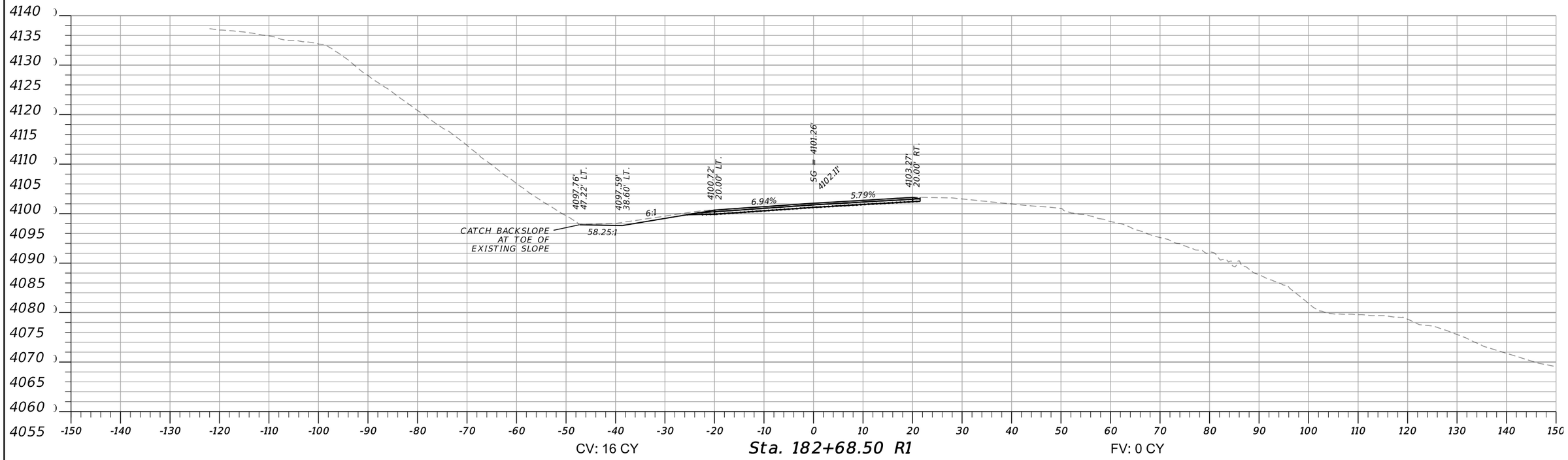

CV: 149 CY **Sta. 182+50.00 R1** FV: 2 CY

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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | UPN 9940000 / SHEET 28 |
| | 11:15:22 AM CPS - U419 | CHECKED BY | | FLATHEAD COUNTY | | |

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CV: 2 CY — *Sta. 182+70.00 R1* — FV: 0 CY




CV: 16 CY — *Sta. 182+68.50 R1* — FV: 0 CY

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|---|---|---|---|---|---|---|
| MONTANA Department of Transportation | C:\DGN\9940000rdlay002.dgn | DESIGNED BY A. MASON | 12/5/2022 | DIGOUT 2 CROSS SECTIONS | PRELIMINARY | BIG MOUNTAIN ROAD / STPS 487-1(17)4 |
| | 12/13/2022 | REVIEWED BY | | | | UPN 9940000 / SHEET 29 |
| | 11:15:27 AM CPS - U4191 | CHECKED BY | | FLATHEAD COUNTY | | |