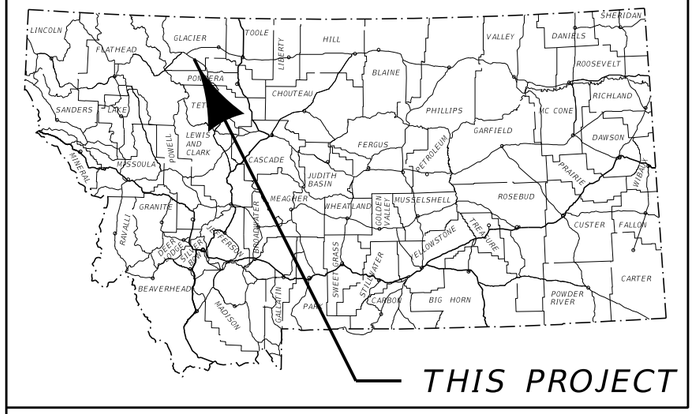
DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY




# MONTANA DEPARTMENT OF TRANSPORTATION

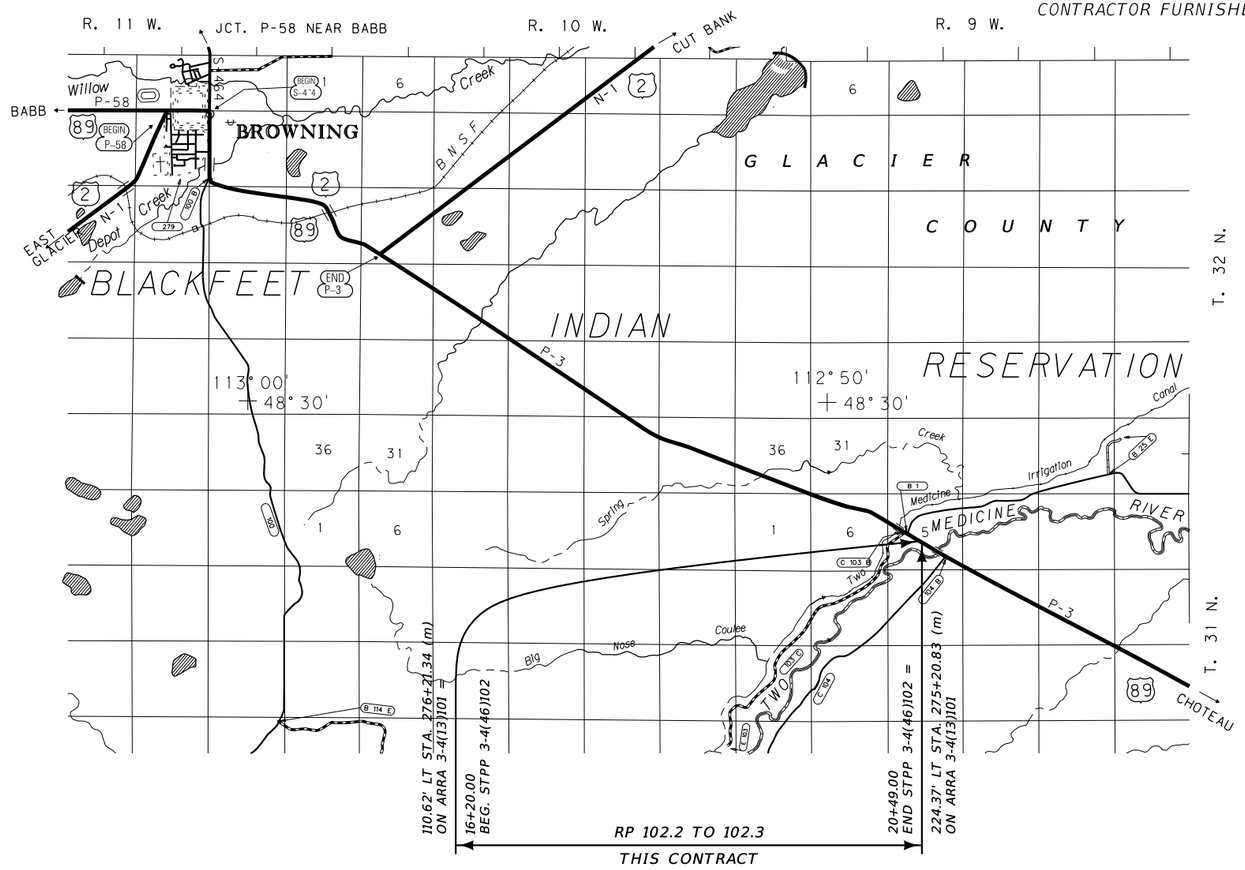
## FEDERAL AID PROJECT STPP 3-4(46)102
## RIPRAP AND REVEGETATION
## US-89 EROSION RPR-TWO MEDICINE
## GLACIER COUNTY

| PROJECT DESIGN DATA | | |
|---|---|---|
| PRESENT | 2019 | A.D.T. = 1200 |
| LETTING | 2021 | A.D.T. = 1250 |
| DESIGN | 2041 | A.D.T. = 1930 |
| | | D.H.V. = 450 |
| | | TRUCKS = 10.4 % |
| | | V. = 60 MPH |
| | | 18 KIP ESAL'S = 51 DAILY |
| | | GROWTH RATE = 2.2 % ANNUALLY |

LETTING DATE - _____

LENGTH 0.1 MILES

SURFACING SOURCES - CONTRACTOR FURNISHED




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...

9/13/2021
DATE

| ASSOCIATED PROJECT AGREEMENT NUMBERS | |
|---|---|
| R / W | STPP 3-4(47)102 |
| I.C. | |
| P. E. | STPP 3-4(45)102 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | MDT | MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdtl001.dgn | DESIGNED BY | CHRIS WARD | 3/9/2020 |
| 2 | | | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 |
| | | | 9:14:50 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 |

ROAD PLANS

UPN 9838000

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

# TABLE OF CONTENTS


| ROAD PLANS | SHEET NO. |
|---|---|
| TITLE SHEET | 1 |
| TABLE OF CONTENTS | 2 |
| NOTES | 2 |
| LEVEL DATA | 2 |
| STREAMBANK C/L COORDINATE TABLE | 2 |
| CONTROL DIAGRAM AND ABSTRACT | 3 |
| SUMMARIES | 4 |
| RANDOM RIPRAP | |
| EROSION REPAIR | |
| REVEGETATION | |
| FENCING | |
| DETAILS | 5-7 |
| STREAMBANK STABILIZATION | 5 |
| RIPRAP FILTER BAG | 5 |
| BANK CONNECTION | 6 |
| FENCING | 6 |
| STREAMBANK PLAN & PROFILE | 7 |
| PLAN | 8 |
| CROSS SECTIONS | |
| STREAMBANK | 1-31 |


# NOTES

## UTILITIES

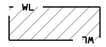
CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

## AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT:
ARRA 3-4(13)101

## 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 FROM | STATION TO | WETLAND AREA (acres) DELINEATED AREA | WETLAND AREA (acres) PERMANENT IMPACTED AREA | REMARKS |
|---|---|---|---|---|---|
| WL-01 | 20+79 | 21+70 | # 0.06 | 0.00 | |
| TOTAL | | | 0.06 | 0.00 | |

# AREA OF EXISTING WETLAND EXTENDS BEYOND PLAN LIMITS

### STREAMBANK CENTERLINE COORDINATE TABLE

| STATION | DESCRIPTION | N OR Y COORDINATE | E OR X COORDINATE | REMARKS |
|---|---|---|---|---|
| 10+00.00 | POT | 1,556,990.101 | 1,166,362.716 | |
| 10+26.25 | PC | 1,557,003.212 | 1,166,385.454 | |
| 10+60.14 | PI | 1,557,020.140 | 1,166,414.813 | |
| 10+93.39 | PT | 1,557,026.451 | 1,166,448.110 | |
| 12+68.90 | PC | 1,557,059.136 | 1,166,620.549 | |
| 12+93.17 | PI | 1,557,063.657 | 1,166,644.400 | |
| 13+17.21 | PT | 1,557,062.341 | 1,166,668.640 | |
| 14+56.43 | PC | 1,557,054.792 | 1,166,807.652 | |
| 15+37.30 | PI | 1,557,050.406 | 1,166,888.403 | |
| 16+16.78 | PT | 1,557,020.789 | 1,166,963.655 | |
| 16+16.78 | PC | 1,557,020.789 | 1,166,963.655 | |
| 16+20.00 | POC | 1,557,019.675 | 1,166,966.674 | BEGIN PROJECT |
| 16+38.83 | PI | 1,557,012.716 | 1,166,984.168 | |
| 16+59.66 | PT | 1,557,017.026 | 1,167,005.787 | |
| 16+59.66 | PC | 1,557,017.026 | 1,167,005.787 | |
| 16+81.36 | PI | 1,557,021.269 | 1,167,027.067 | |
| 17+00.61 | PT | 1,557,008.624 | 1,167,044.701 | |
| 17+30.42 | PC | 1,556,991.250 | 1,167,068.929 | |
| 17+53.40 | PI | 1,556,977.861 | 1,167,087.599 | |
| 17+75.59 | PT | 1,556,973.964 | 1,167,110.241 | |
| 17+75.59 | PC | 1,556,973.964 | 1,167,110.241 | |
| 18+12.21 | PI | 1,556,967.751 | 1,167,146.336 | |
| 18+43.73 | PT | 1,556,935.465 | 1,167,163.631 | |
| 18+43.73 | PC | 1,556,935.465 | 1,167,163.631 | |
| 18+65.92 | PI | 1,556,915.905 | 1,167,174.108 | |
| 18+87.99 | PT | 1,556,898.496 | 1,167,187.867 | |
| 18+87.99 | PC | 1,556,898.496 | 1,167,187.867 | |
| 19+29.85 | PI | 1,556,865.657 | 1,167,213.821 | |
| 19+64.35 | PT | 1,556,826.326 | 1,167,199.498 | |
| 19+64.35 | PC | 1,556,826.326 | 1,167,199.498 | |
| 19+97.82 | PI | 1,556,794.872 | 1,167,188.043 | |
| 20+31.02 | PT | 1,556,761.667 | 1,167,183.803 | |
| 20+31.02 | PC | 1,556,761.667 | 1,167,183.803 | |
| 20+49.00 | POC | 1,556,744.014 | 1,167,180.464 | END PROJECT |
| 20+81.67 | PI | 1,556,711.426 | 1,167,177.387 | |
| 21+28.72 | PT | 1,556,675.357 | 1,167,141.828 | |
| 21+94.67 | POT | 1,556,628.390 | 1,167,095.523 | |

GPK NAME: JOB838.GPK CHAIN NAME: CL4 PROFILE NAME: TOE4

# LEVEL DATA

## BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83- 1992

## LEVEL DATUM SOURCE

NAVD 88 (ELEVATIONS ARE BASED ON PROJECT CN4046)

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

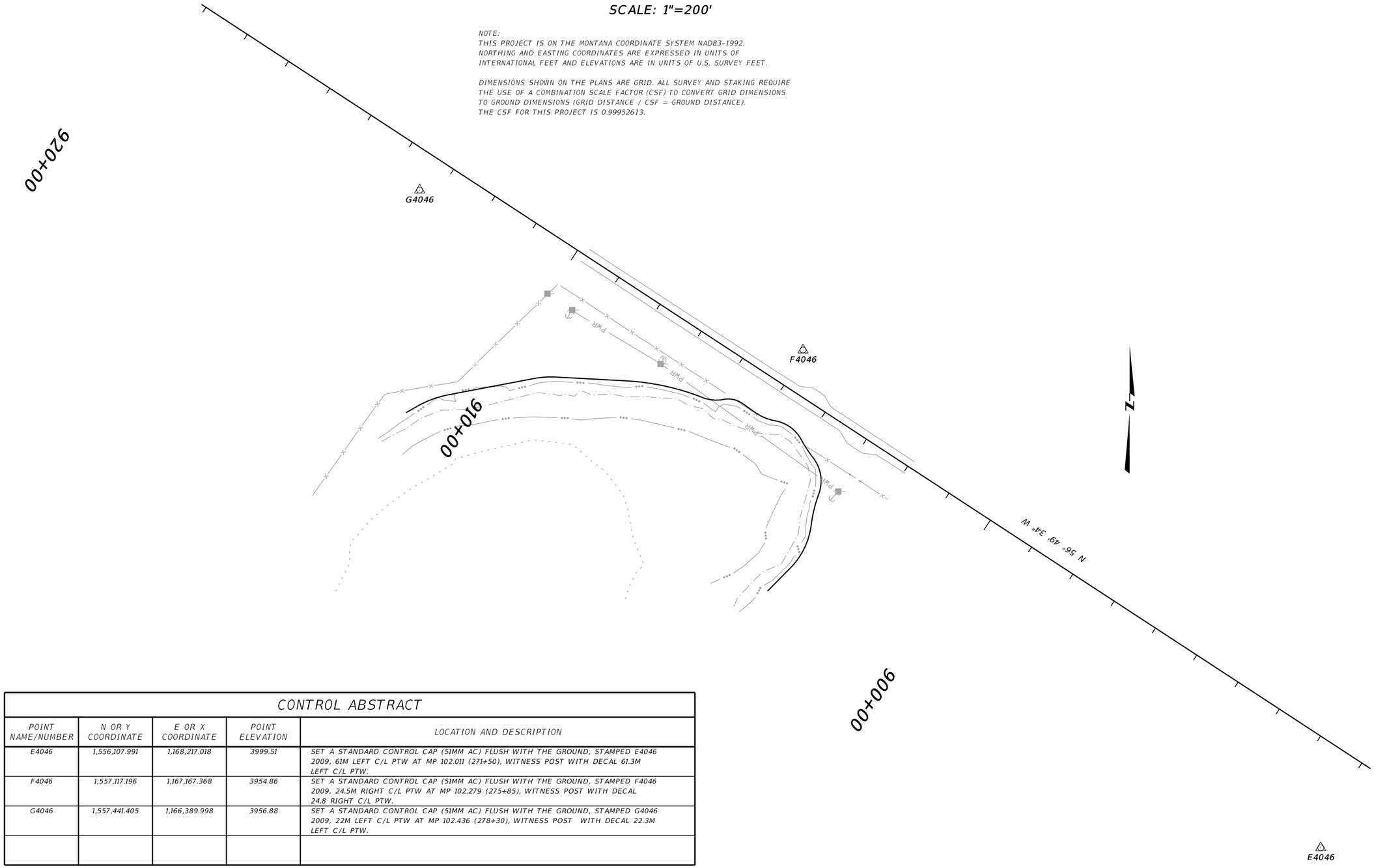
AWARD COPY

# CONTROL DIAGRAM

SCALE: 1"=200'

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-1992.
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 0.99952613.




## CONTROL ABSTRACT

| POINT NAME/NUMBER | N OR Y COORDINATE | E OR X COORDINATE | POINT ELEVATION | LOCATION AND DESCRIPTION |
|---|---|---|---|---|
| E4046 | 1,556,107.991 | 1,168,217.018 | 3999.51 | SET A STANDARD CONTROL CAP (51MM AC) FLUSH WITH THE GROUND, STAMPED E4046 2009, 61M LEFT C/L PTW AT MP 102.011 (271+50), WITNESS POST WITH DECAL 61.3M LEFT C/L PTW. |
| F4046 | 1,557,117.196 | 1,167,167.368 | 3954.86 | SET A STANDARD CONTROL CAP (51MM AC) FLUSH WITH THE GROUND, STAMPED F4046 2009, 24.5M RIGHT C/L PTW AT MP 102.279 (275+85), WITNESS POST WITH DECAL 24.8 RIGHT C/L PTW. |
| G4046 | 1,557,441.405 | 1,166,389.998 | 3956.88 | SET A STANDARD CONTROL CAP (51MM AC) FLUSH WITH THE GROUND, STAMPED G4046 2009, 22M LEFT C/L PTW AT MP 102.436 (278+30), WITNESS POST WITH DECAL 22.3M LEFT C/L PTW. |
| | | | | |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

# SUMMARY

## RANDOM RIPRAP

| STATION | | cu. yards | | | linear feet | sq. yards | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | RANDOM RIPRAP | STREAM-BED MATERIAL | AGGRE-GATE | MISC. ITEMS | GEOTEXTILE PERM. EROS. CNTRL. HIGH SURV. CLASS B | RIPRAP REVEGE-TATION | |
| FROM | TO | CL. 3 | | | | | | |
| | | | | | | | | |
| 16+20.00 | 20+00.00 | | | | | | 946 | |
| 16+20.00 | 20+35.00 | 1,601.3 | 309 | | | 1,187 | | |
| 16+20.00 | 20+35.00 | | | 86 | 387 | | | RIPRAP FILTER BAGS |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL | | 1,601.3 | 309 | # | 387 | 1,187 | 946 | |

# FOR INFORMATION ONLY

## EROSION REPAIR

| STATION | | lump sum | cu. yards | square yards | | each | linear feet | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | BIOENGI-NEERED BANK | ENCAP-SULATED SOIL | EROSION CONTROL BLANKET | COIR EROSION CONTROL NET | WILLOW PLANTINGS | COIR LOGS | | |
| FROM | TO | | | LONG TERM | | | 12 in | 20 in | |
| | | | | | | | | | |
| 20+00 | 20+35 | 1 | 69 | 211 | 162 | 111 | 74 | 37 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTAL | | 1 | # | # | # | # | # | # | |

# FOR INFORMATION ONLY

## REVEGETATION

| STATION | | lump sum | | cu. yards | REMARKS |
|---|---|---|---|---|---|
| | | REVEGE-TATION | TREE AND SHRUB PLANTING | TOPSOIL SALVAGING & PLACING | |
| FROM | TO | | | | |
| | | | | | |
| 16+20 | 20+00 | 1 | 1 | 315 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTAL | | 1 | 1 | # | |

# FOR INFORMATION ONLY

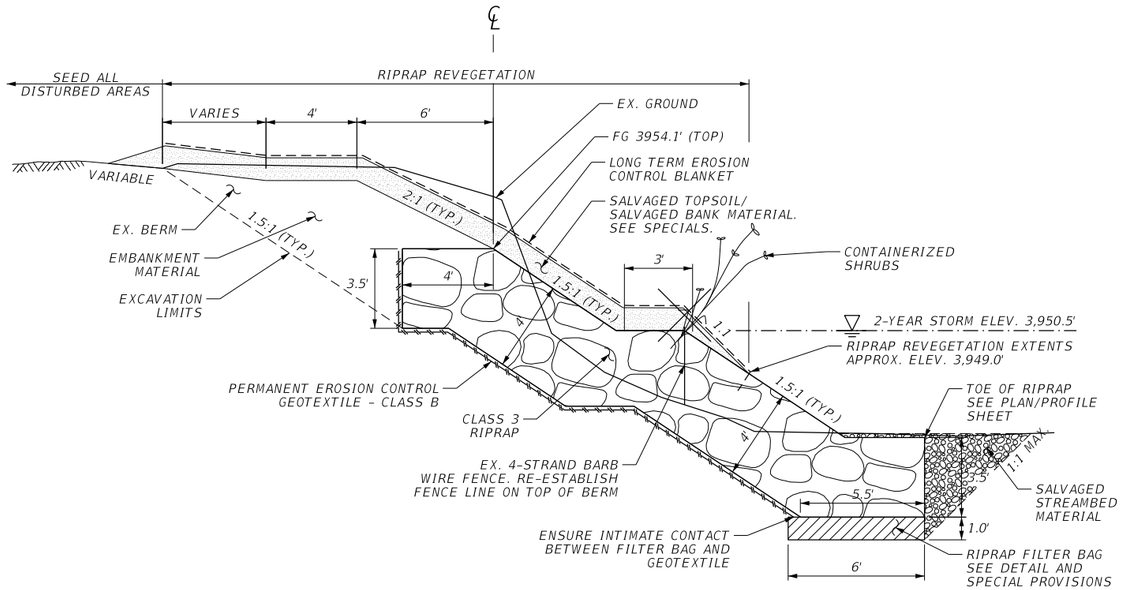
## FENCING

| STATION | | linear feet | each | REMARKS |
|---|---|---|---|---|
| | | FARM FENCE | FARM FENCE PANEL | |
| | | TYPE F4W | DOUBLE | |
| FROM | TO | | FW | |
| | | | | |
| 16+20.00 | 19+30.97 | 351 | 6 | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | | 351 | 6 | |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

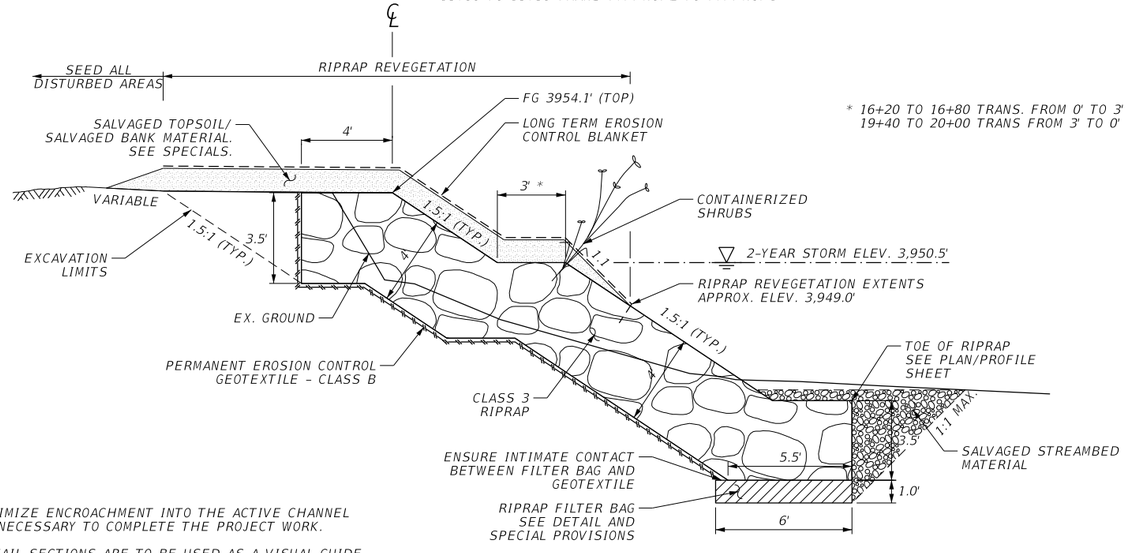


# DETAIL




TYPICAL #2 RIPRAP BANK WITH BERM DETAIL

16+80 TO 18+60
18+60 TO 18+80 TRANS TYP. NO. 2 TO TYP. NO. 1




* 16+20 TO 16+80 TRANS. FROM 0' TO 3'
19+40 TO 20+00 TRANS FROM 3' TO 0'

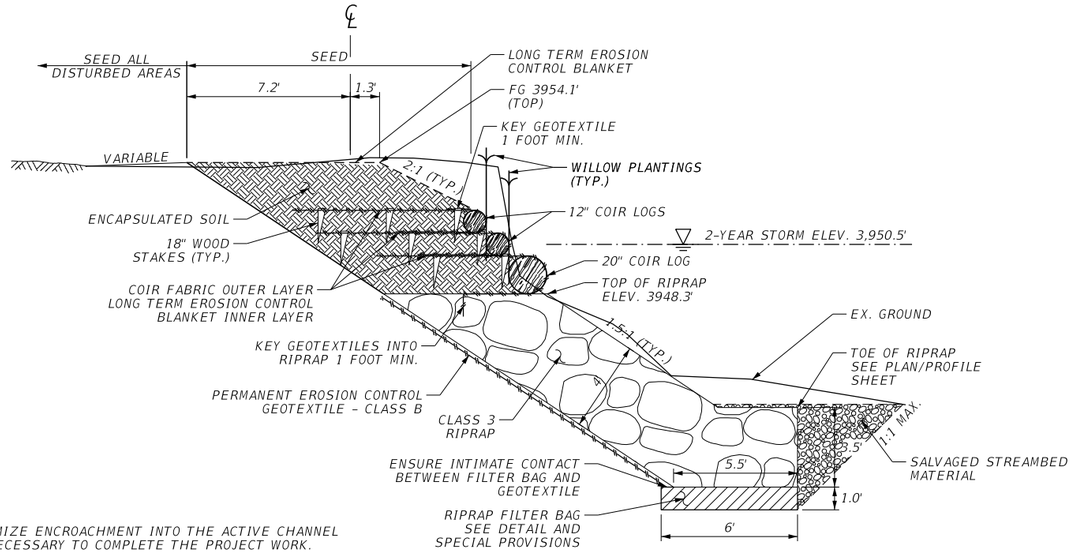
TYPICAL #1 RIPRAP BANK WITHOUT BERM DETAIL

16+20 TO 16+60
16+60 TO 16+80 TRANS TYP. NO. 1 TO TYP. NO. 2
18+80 TO 20+00

NOTES:

1. MINIMIZE ENCROACHMENT INTO THE ACTIVE CHANNEL AS NECESSARY TO COMPLETE THE PROJECT WORK.
2. DETAIL SECTIONS ARE TO BE USED AS A VISUAL GUIDE FOR RIPRAP AND REVEGETATION PLACEMENT. REFER TO CROSS SECTION FOR SPECIFIC ELEVATIONS, SLOPES, OFFSETS AND GEOMETRIC CONFIGURATION OF THE RIPRAP LAYOUT.
3. THE RIVERBANK IS CURRENTLY ERODING INTO THE RIVER. RIPRAP OFFSETS AND ELEVATIONS MAY VARY SLIGHTLY FROM DESIGN. REVISE AND ADJUST ACCORDINGLY AS DIRECTED BY THE PROJECT MANAGER.
4. SEE PLAN & PROFILE AND SUMMARY FOR NEW FARM FENCE LIMITS.

STREAMBANK STABILIZATION



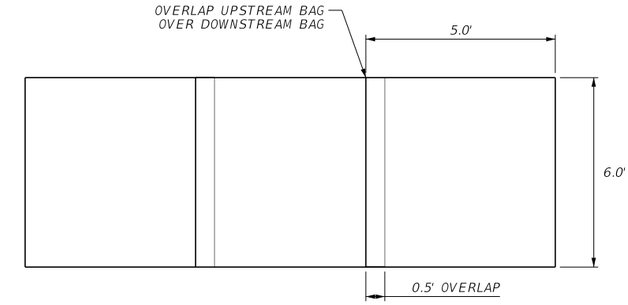

NOTES:

1. MINIMIZE ENCROACHMENT INTO THE ACTIVE CHANNEL AS NECESSARY TO COMPLETE THE PROJECT WORK.
2. DETAIL SECTIONS ARE TO BE USED AS A VISUAL GUIDE FOR RIPRAP AND SOIL LIFT PLACEMENT. REFER TO CROSS SECTION FOR SPECIFIC ELEVATIONS, SLOPES, OFFSETS AND GEOMETRIC CONFIGURATION OF THE LAYOUT.
3. THE RIVERBANK IS CURRENTLY ERODING INTO THE RIVER. RIPRAP OFFSETS AND ELEVATIONS MAY VARY SLIGHTLY FROM DESIGN. REVISE AND ADJUST ACCORDINGLY AS DIRECTED BY THE PROJECT MANAGER.
4. INSTALL WOOD STAKES AT 3 FOOT O.C. ALONG BANK LENGTH.

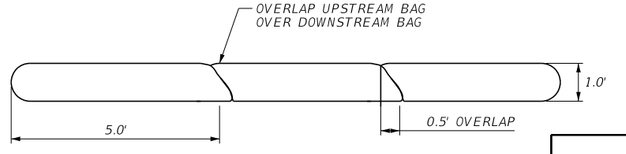
TYPICAL #3 RIPRAP BANK WITH RIPRAP/ SOIL LIFT DETAIL

20+00 TO 20+35

STREAMBANK STABILIZATION




PLAN




PROFILE VIEW

RIPRAP FILTER BAG

STREAMBANK STABILIZATION AND RIPRAP FILTER BAG

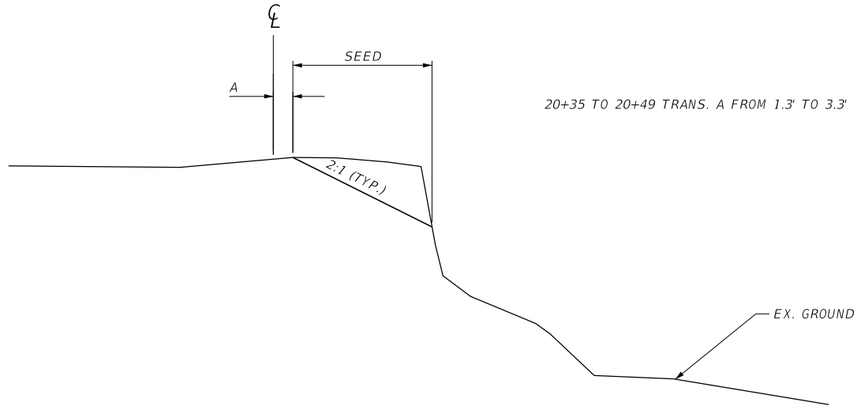
NO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 / 1 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000hydet001.dgn | DESIGNED BY | CHAD KNUTH | | ROAD PLANS | US-89 EROSION RPR-TWO MEDICINE / STPP 3-4(46)102 |
| | | 7/22/2021 | REVIEWED BY | DAVE HEDSTROM | | | |
| | | 9:15:39 AM CPS - U4503 | CHECKED BY | | | GLACIER COUNTY | UPN 9838000 / SHEET 5 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

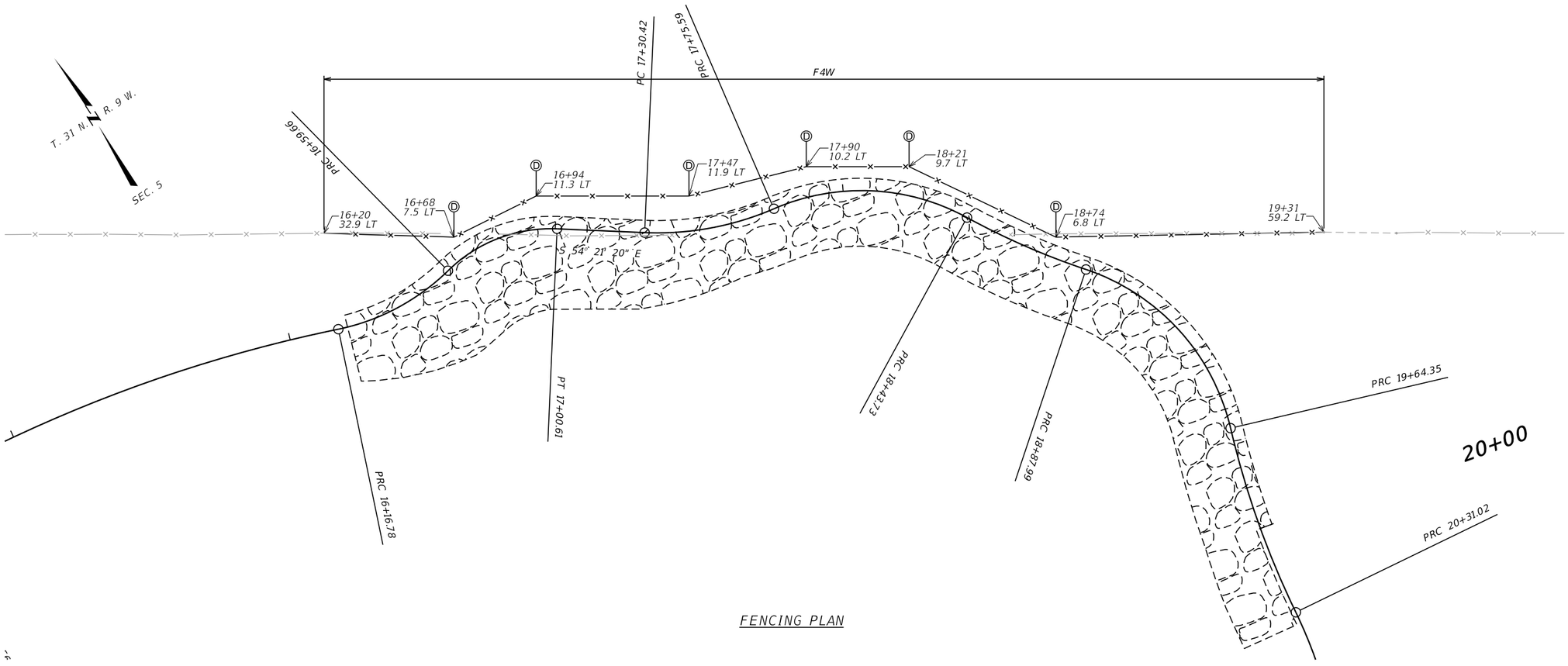
# DETAIL




20+35 TO 20+49 TRANS. A FROM 1.3' TO 3.3'

TYPICAL #4 BANK CONNECTION

20+35 TO 20+49




FENCING PLAN

BANK CONNECTION AND FENCING PLAN

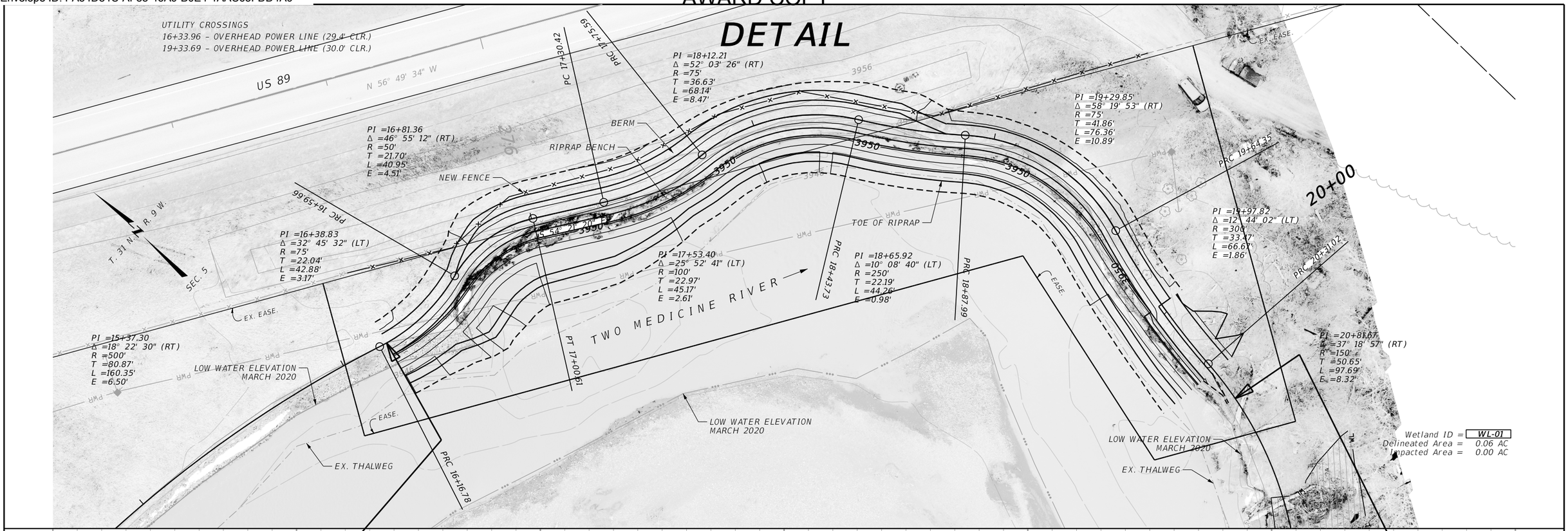
NO SCALE

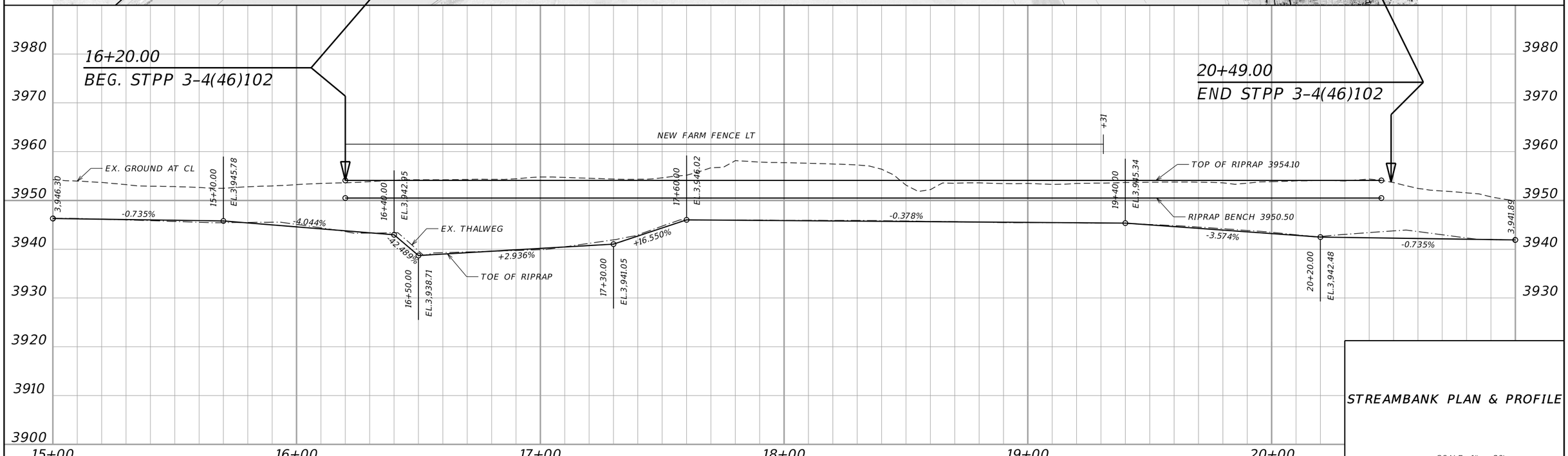
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rddet001.dgn | DESIGNED BY | CHRIS WARD | 7/31/2020 | ROAD PLANS | US-89 EROSION RPR-TWO MEDICINE / STPP 3-4(46)102 |
| 2 | | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | |
| | | 9:15:53 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 / 6 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

# DETAIL



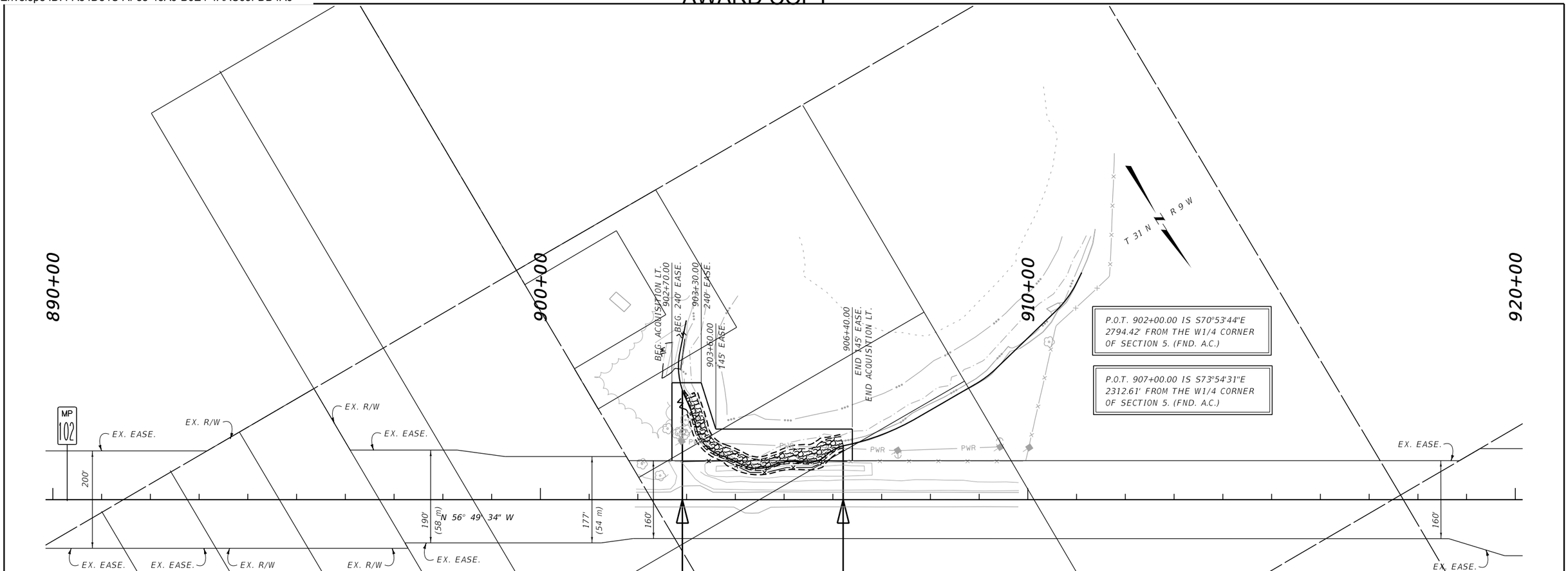

## STREAMBANK PLAN & PROFILE

SCALE: 1" = 20'

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdplp001.dgn | DESIGNED BY | CHRIS WARD | 6/16/2020 | ROAD PLANS | US-89 EROSION RPR-TWO MEDICINE / STPP 3-4(46)102 |
| 2 | | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | UPN 9838000 / 7 |
| | | 9:16:21 AM CPS – U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

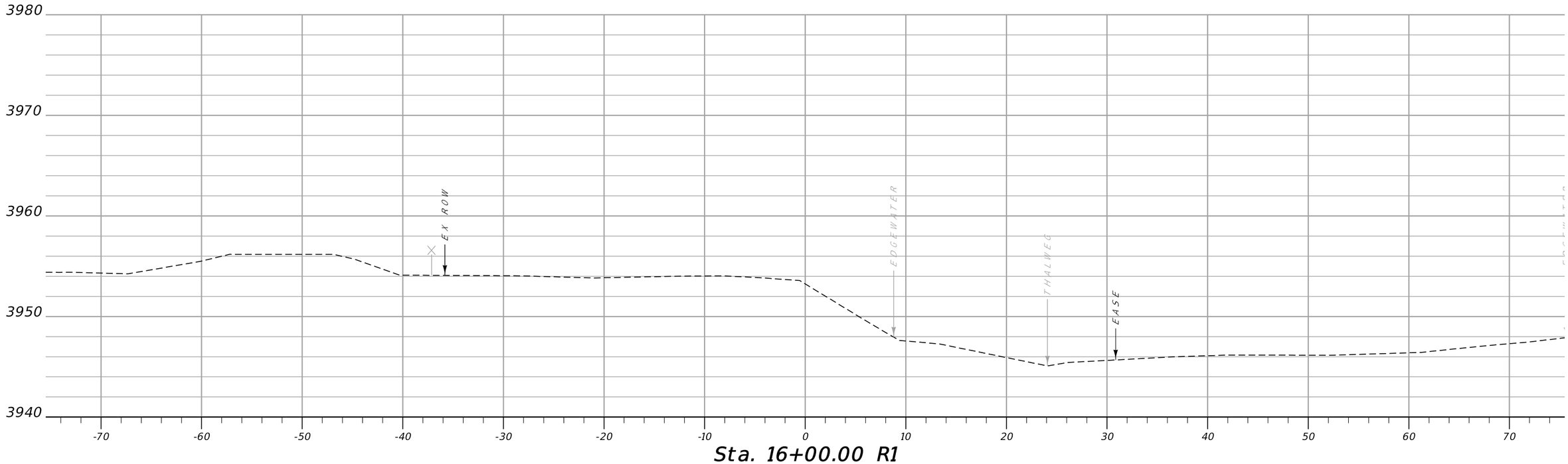
AWARD COPY




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdpln001.dgn | DESIGNED BY | CHRIS WARD | 4/2/2020 | ROAD PLANS | US-89 EROSION RPR-TWO MEDICINE / STPP 3-4(46)102 |
| 2 | | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | |
| | | 9:16:35 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 / 8 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

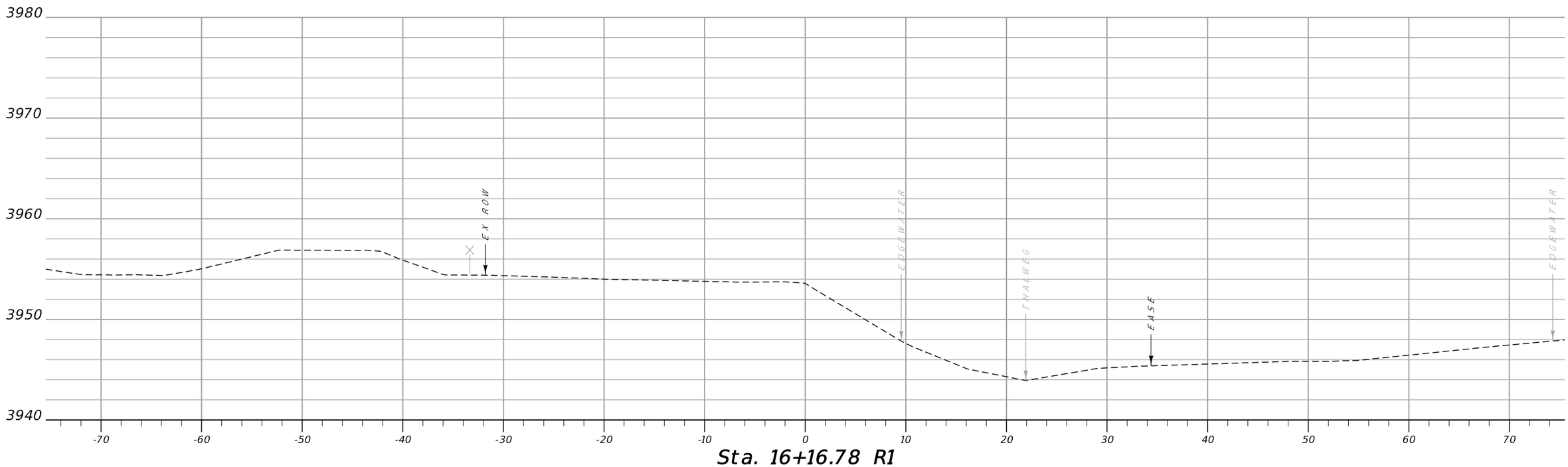



Sta. 16+00.00 R1

| | | | | | | |
|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE / STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | |
| | 9:16:26 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 / SHEET 1 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY



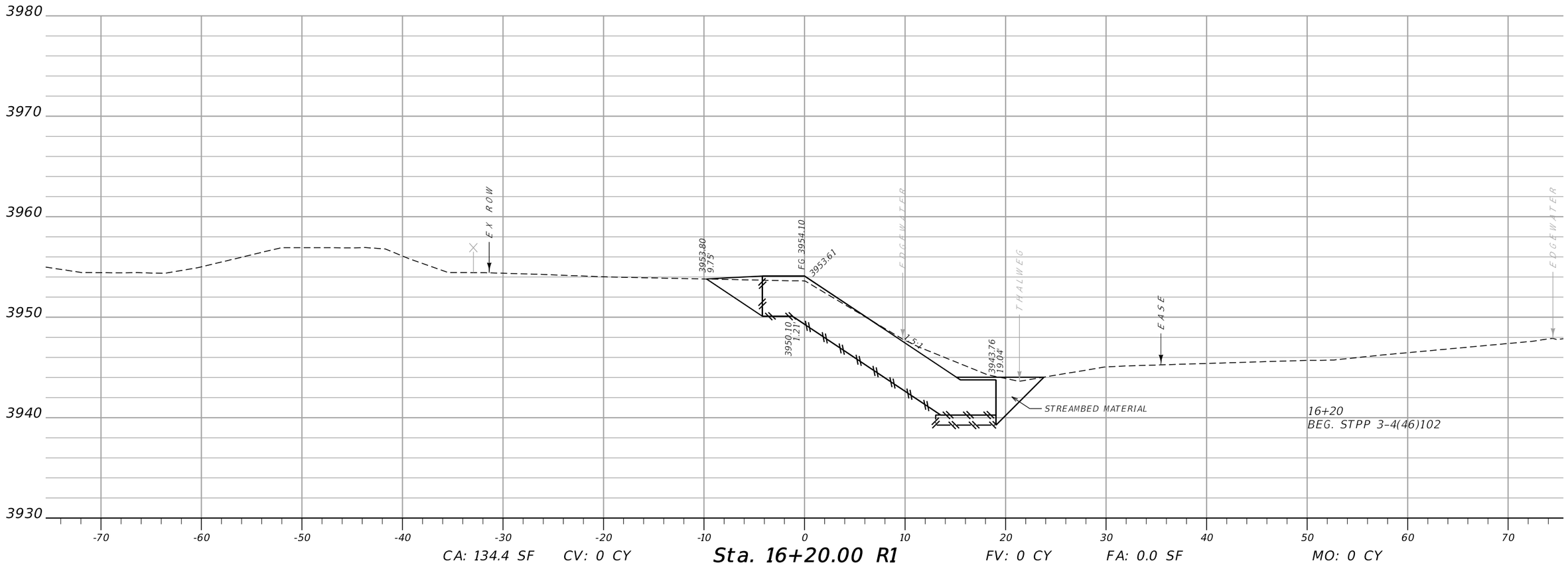

Sta. 16+16.78 R1

| | | | | | |
|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | |
| | 9:16:30 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY |

| | | |
|---|---|---|
| US-89 EROSION RPR-TWO MEDICINE | | STPP 3-4(46)102 |
| | UPN 9838000 | SHEET 2 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

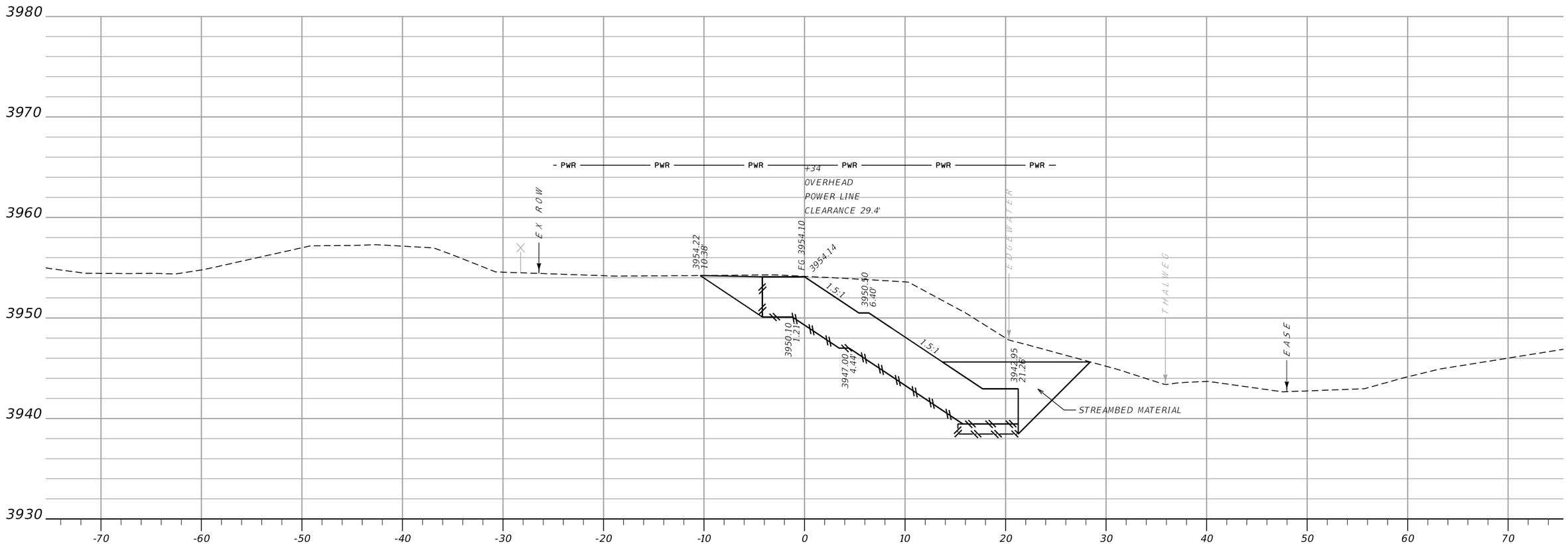



CA: 134.4 SF CV: 0 CY **Sta. 16+20.00 R1** FV: 0 CY FA: 0.0 SF MO: 0 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:16:34 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 3 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

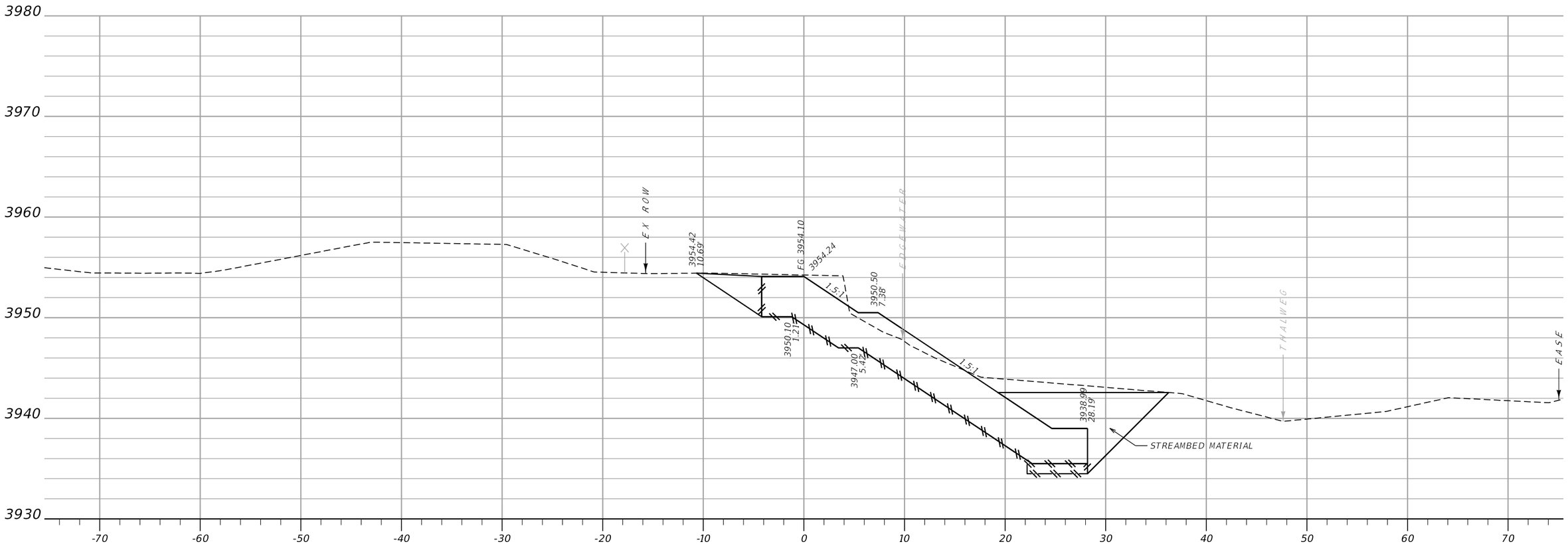



CA: 259.2 SF CV: 146 CY **Sta. 16+40.00 R1** FV: 0 CY FA: 0.0 SF MO: 146 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:16:38 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 4 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

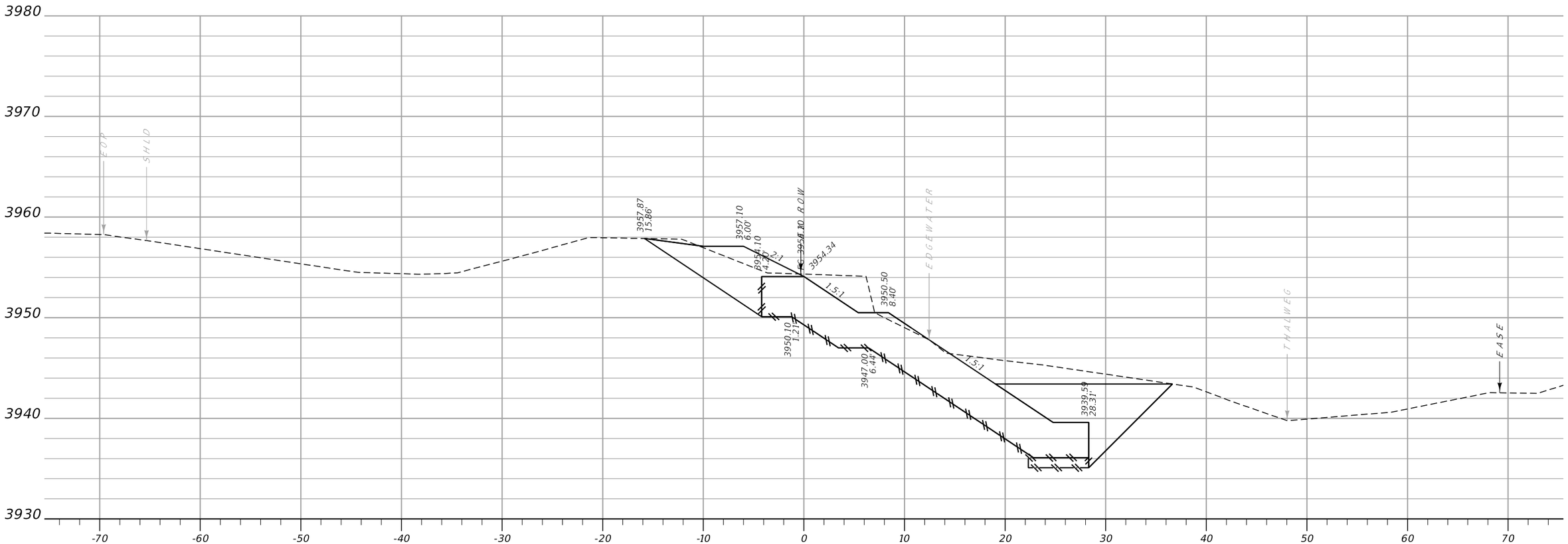



CA: 229.2 SF CV: 178 CY **Sta. 16+59.66 R1** FV: 0 CY FA: 0.0 SF MO: 324 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:16:43 AM CPS – U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 5 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

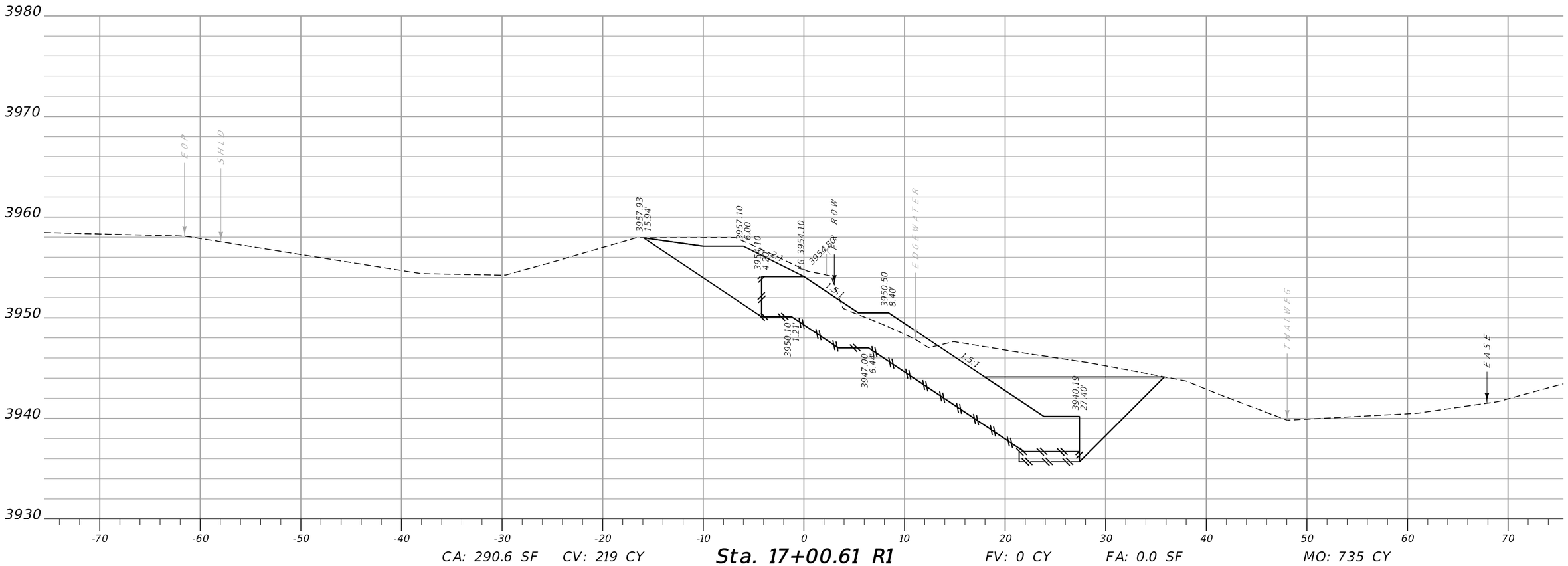



CA: 282.9 SF CV: 193 CY **Sta. 16+80.00 R1** FV: 0 CY FA: 0.0 SF MO: 517 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:16:47 AM CPS – U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 6 |

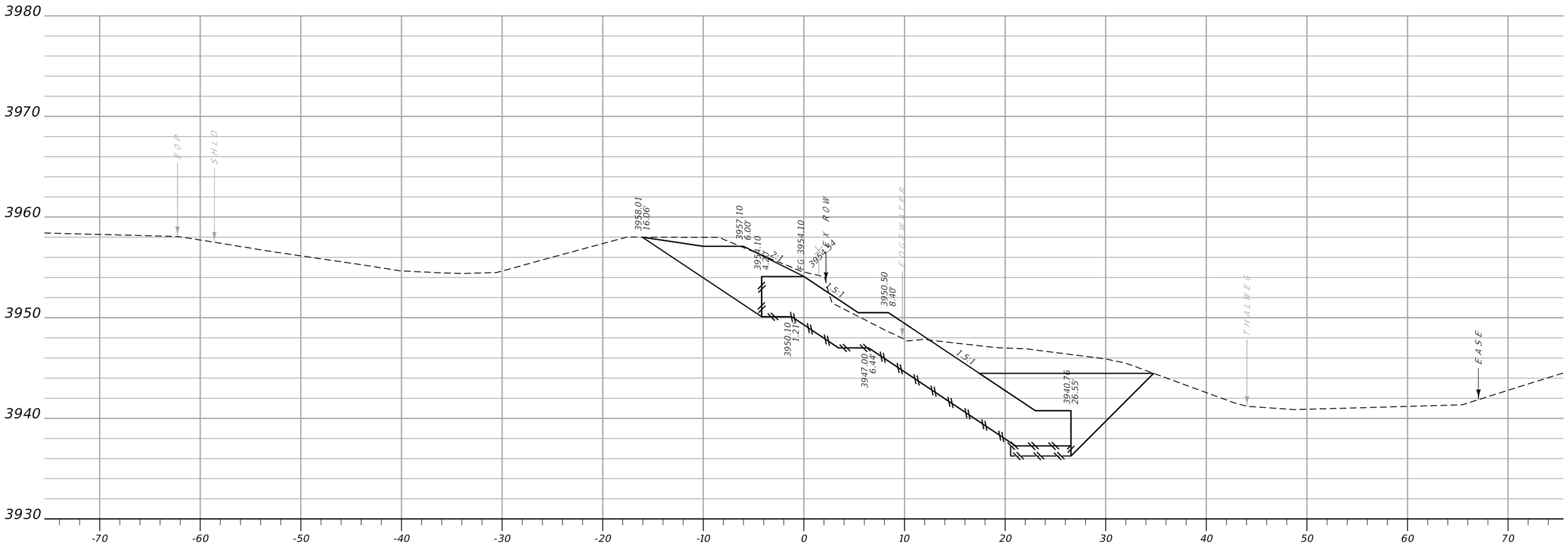
DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY


3980
3970
3960
3950
3940
3930
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
E O P
S H L D
3957.93
15.94'
3957.10
6.00'
3954.10
4.00'
4.00'
4.00'

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

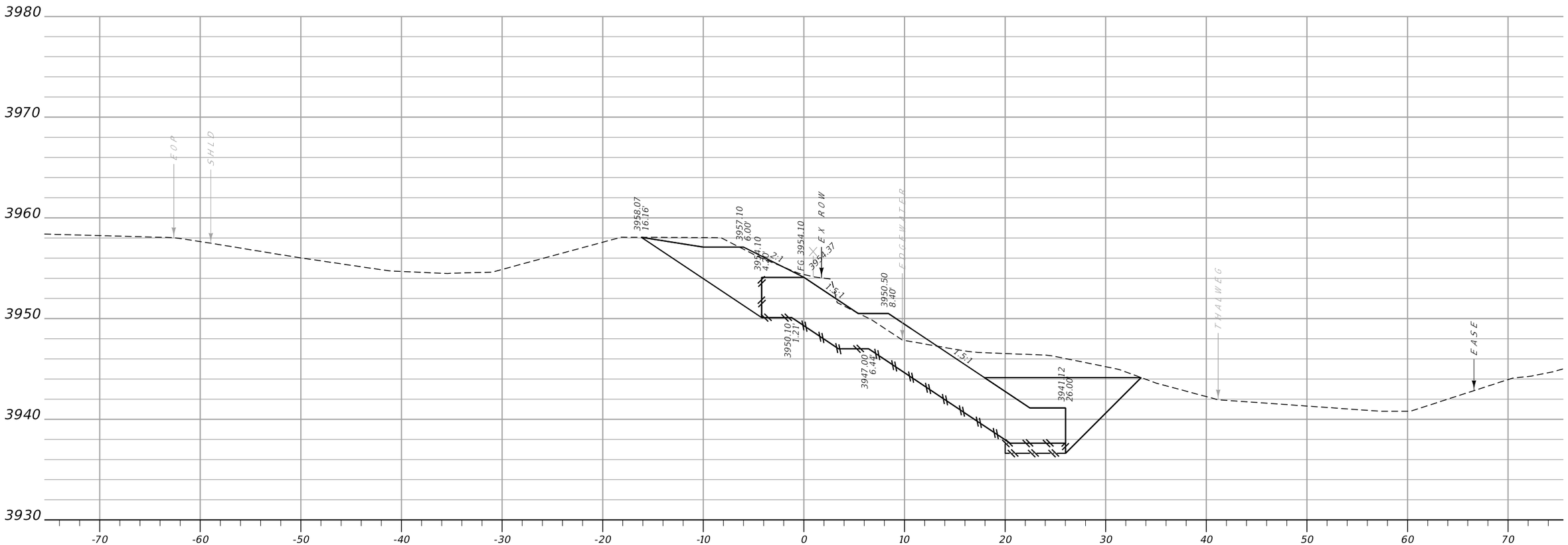
AWARD COPY




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:16:55 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 8 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

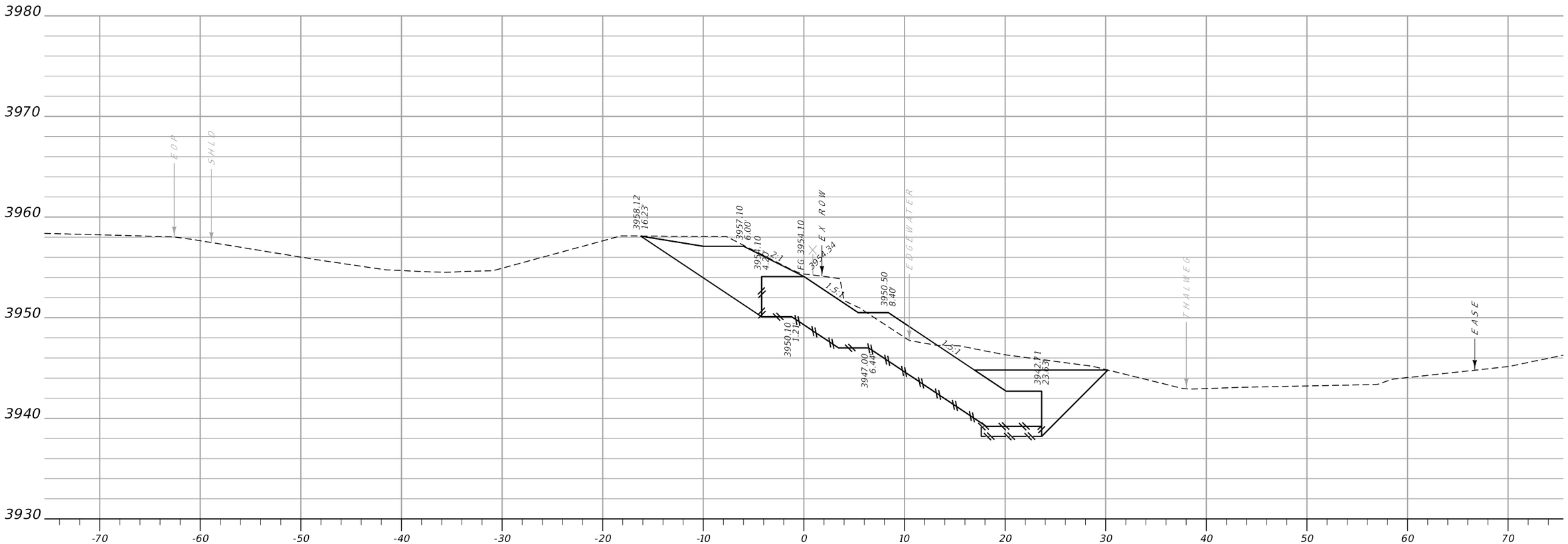



CA: 258.7 SF CV: 103 CY **Sta. 17+30.42 R1** FV: 0 CY FA: 0.0 SF MO: 1042 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:00 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 9 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

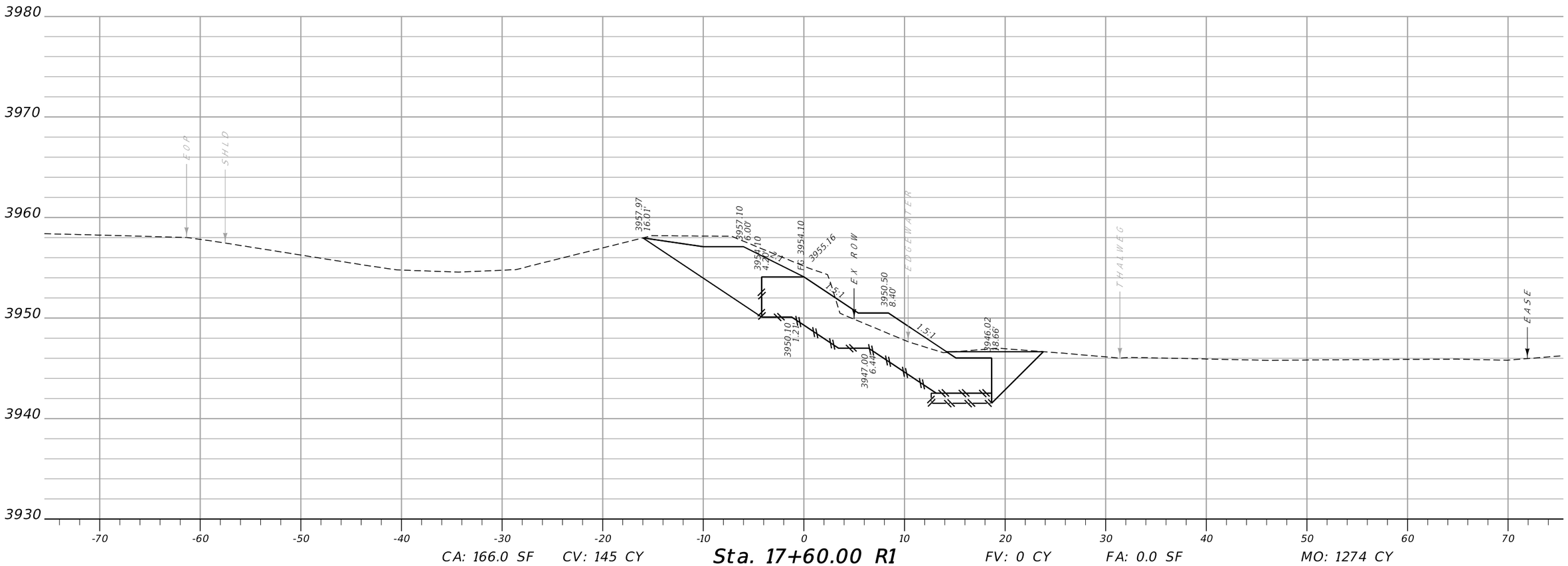



CA: 226.4 SF CV: 86 CY **Sta. 17+40.00 R1** FV: 0 CY FA: 0.0 SF MO: 1128 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:04 AM CPS – U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 10 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

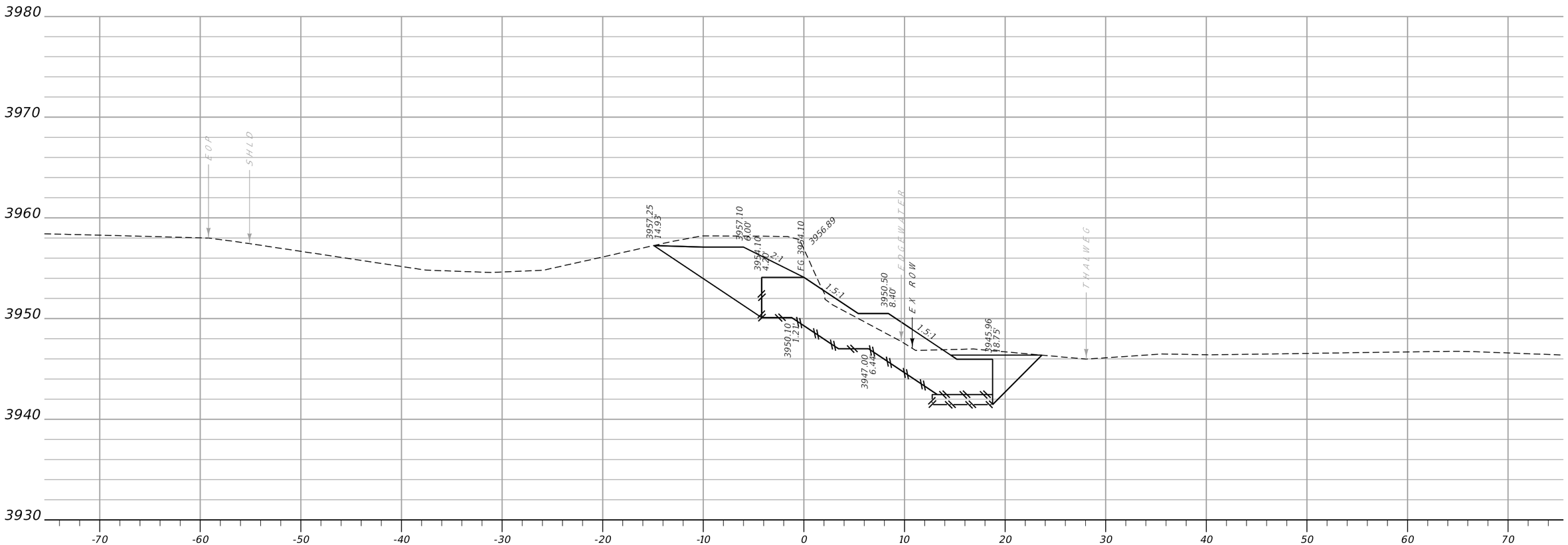



CA: 166.0 SF CV: 145 CY **Sta. 17+60.00 R1** FV: 0 CY FA: 0.0 SF MO: 1274 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:08 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 11 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

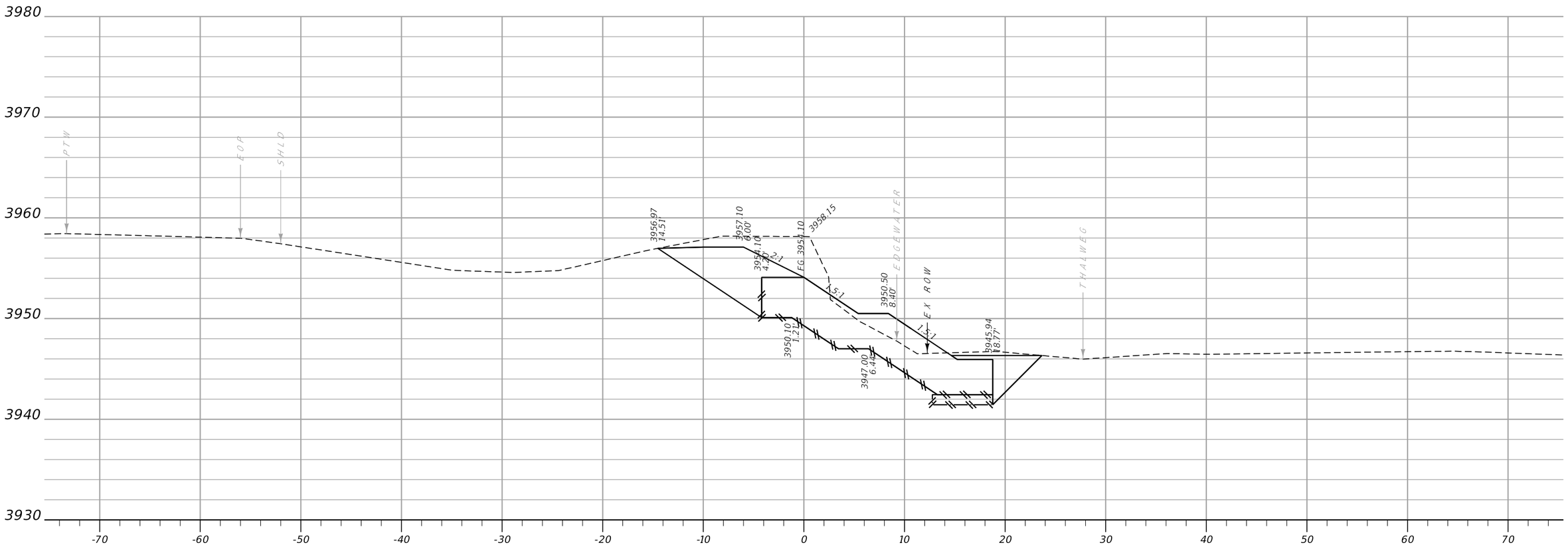



CA: 172.2 SF CV: 98 CY **Sta. 17+75.59 R1** FV: 0 CY FA: 0.0 SF MO: 1371 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:12 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 12 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

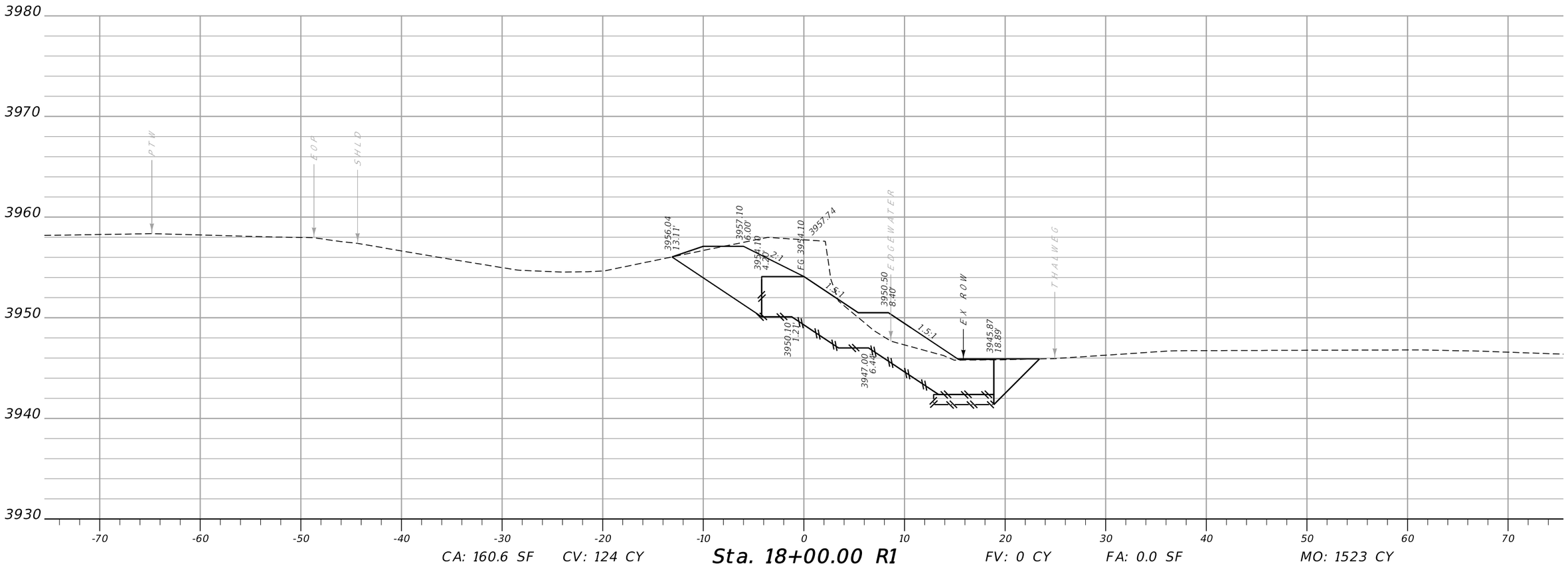



CA: 173.6 SF CV: 28 CY **Sta. 17+80.00 R1** FV: 0 CY FA: 0.0 SF MO: 1400 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:17 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 13 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

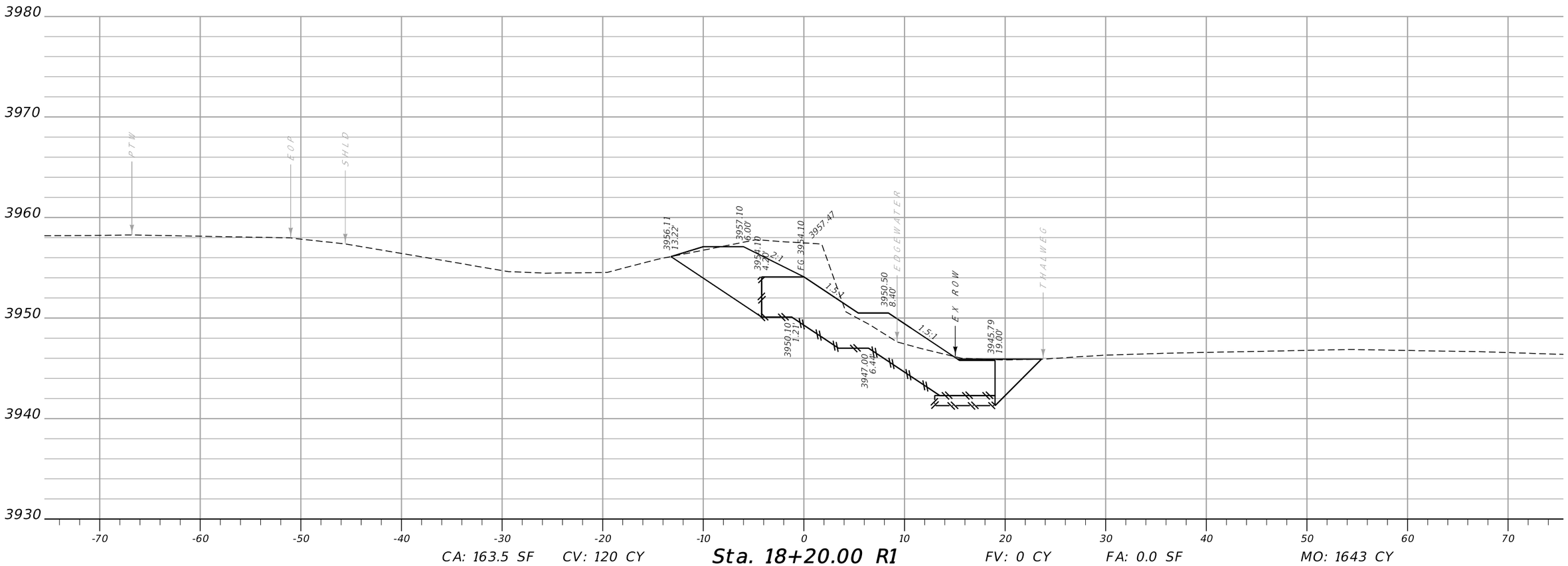



CA: 160.6 SF CV: 124 CY **Sta. 18+00.00 R1** FV: 0 CY FA: 0.0 SF MO: 1523 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:21 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 14 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

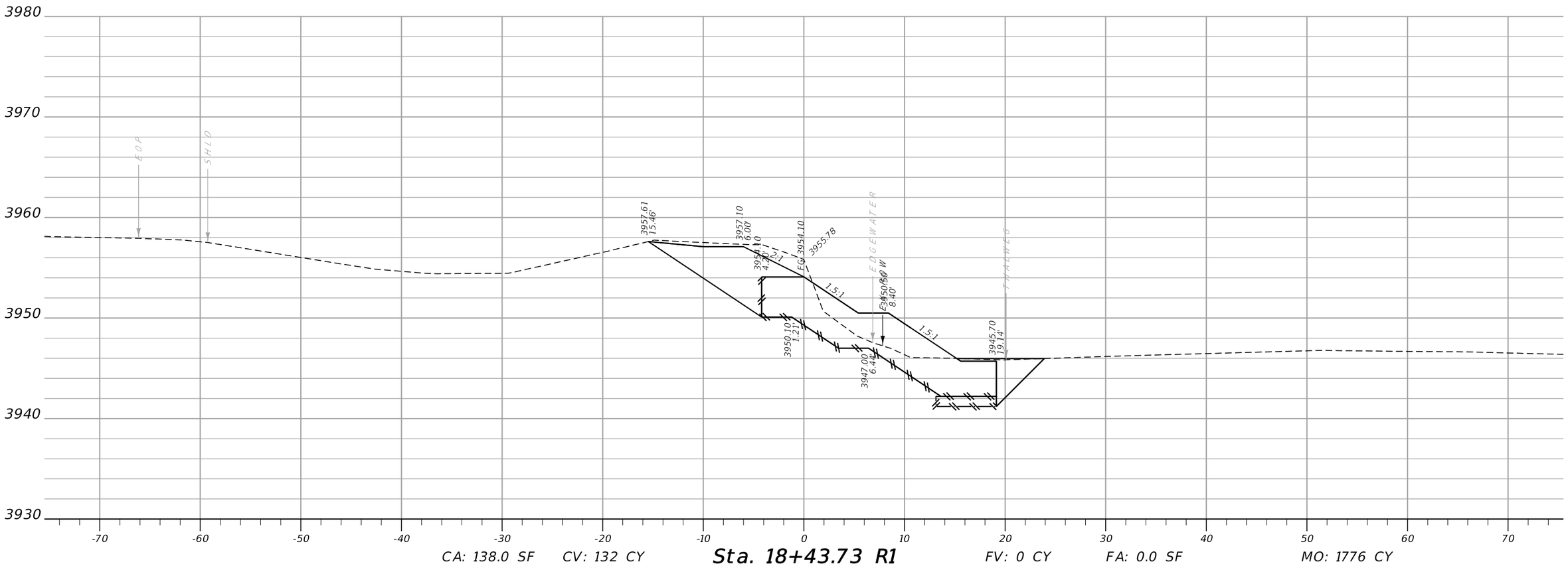



CA: 163.5 SF CV: 120 CY **Sta. 18+20.00 R1** FV: 0 CY FA: 0.0 SF MO: 1643 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:25 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 15 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

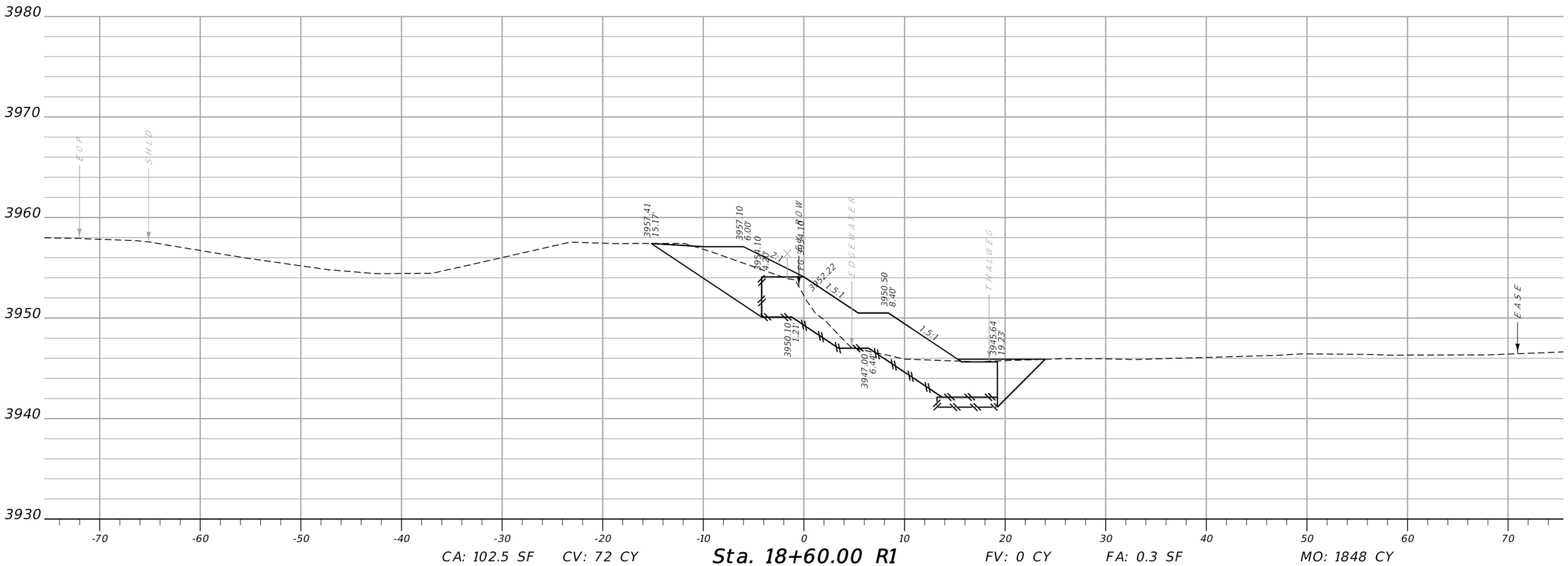



CA: 138.0 SF CV: 132 CY **Sta. 18+43.73 R1** FV: 0 CY FA: 0.0 SF MO: 1776 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:29 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 16 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

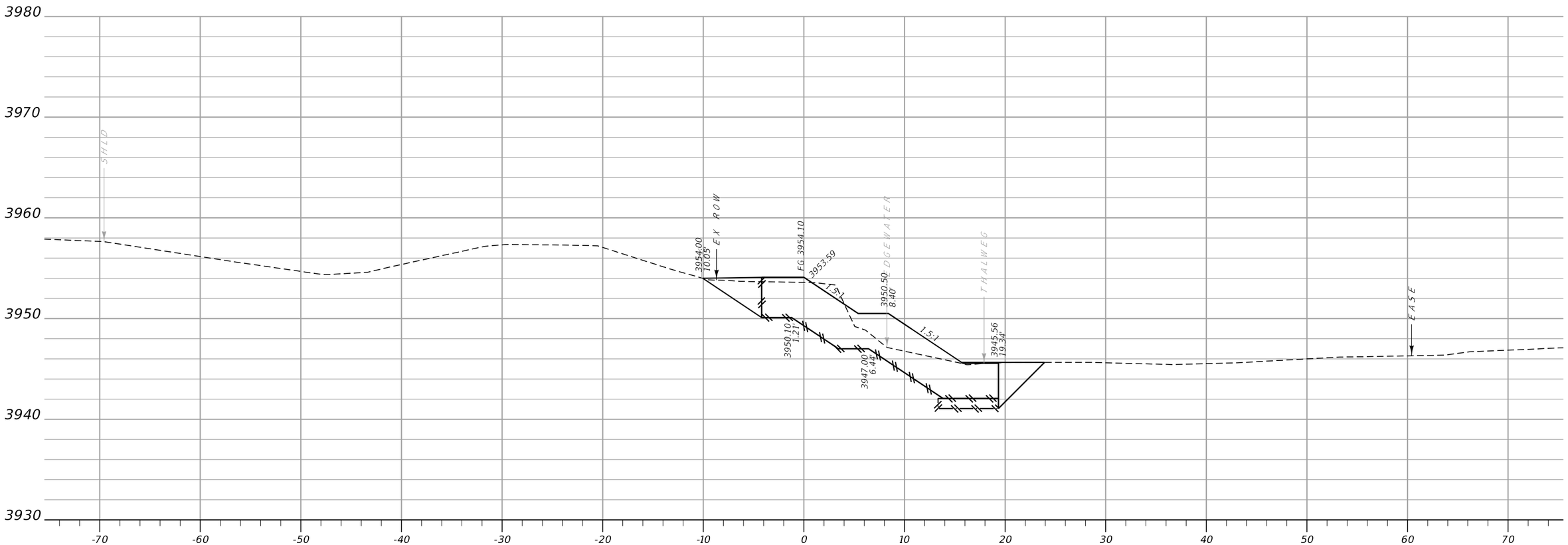



CA: 102.5 SF CV: 72 CY **Sta. 18+60.00 R1** FV: 0 CY FA: 0.3 SF MO: 1848 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:34 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 17 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

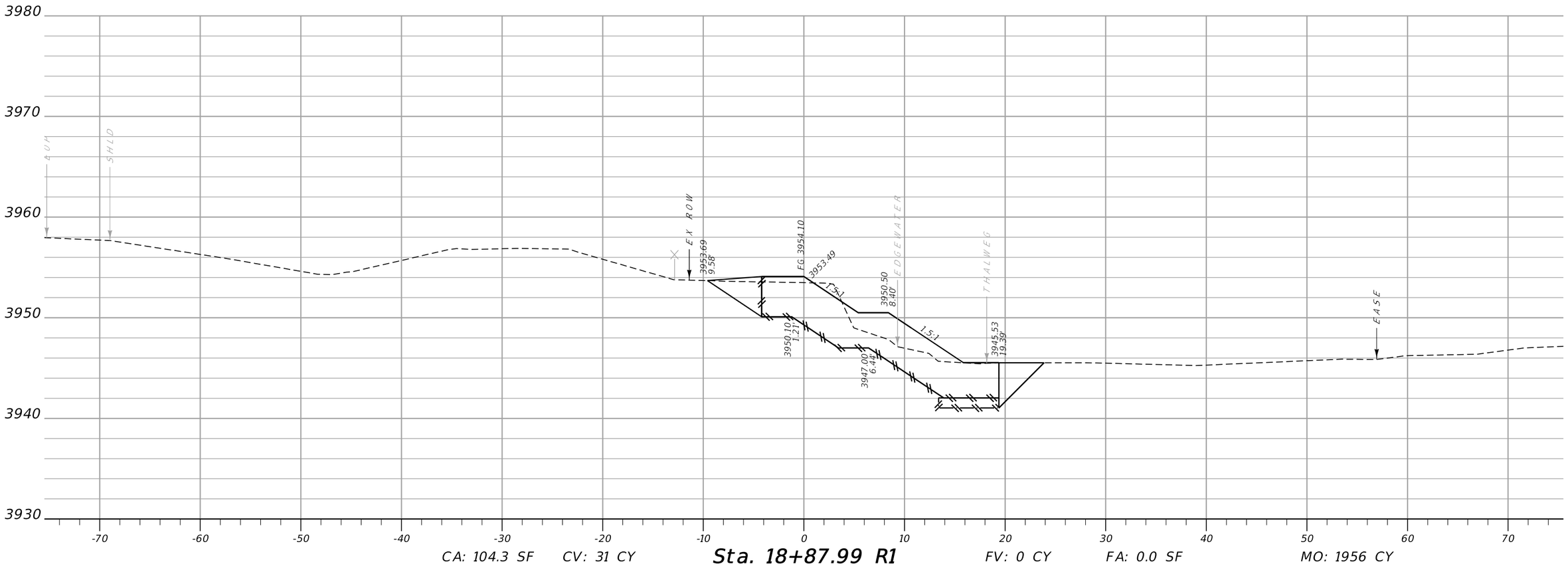



CA: 105.7 SF CV: 77 CY **Sta. 18+80.00 R1** FV: 0 CY FA: 0.0 SF MO: 1925 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:38 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 18 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

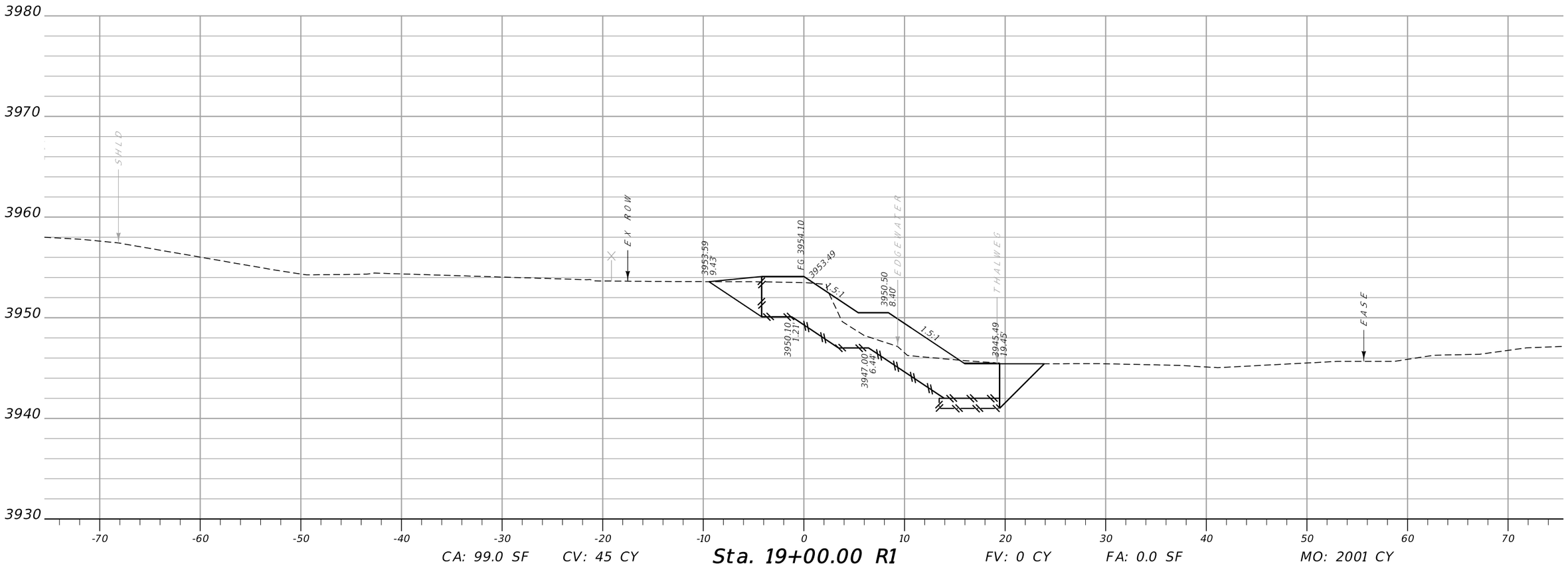



CA: 104.3 SF CV: 31 CY **Sta. 18+87.99 R1** FV: 0 CY FA: 0.0 SF MO: 1956 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:42 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 19 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

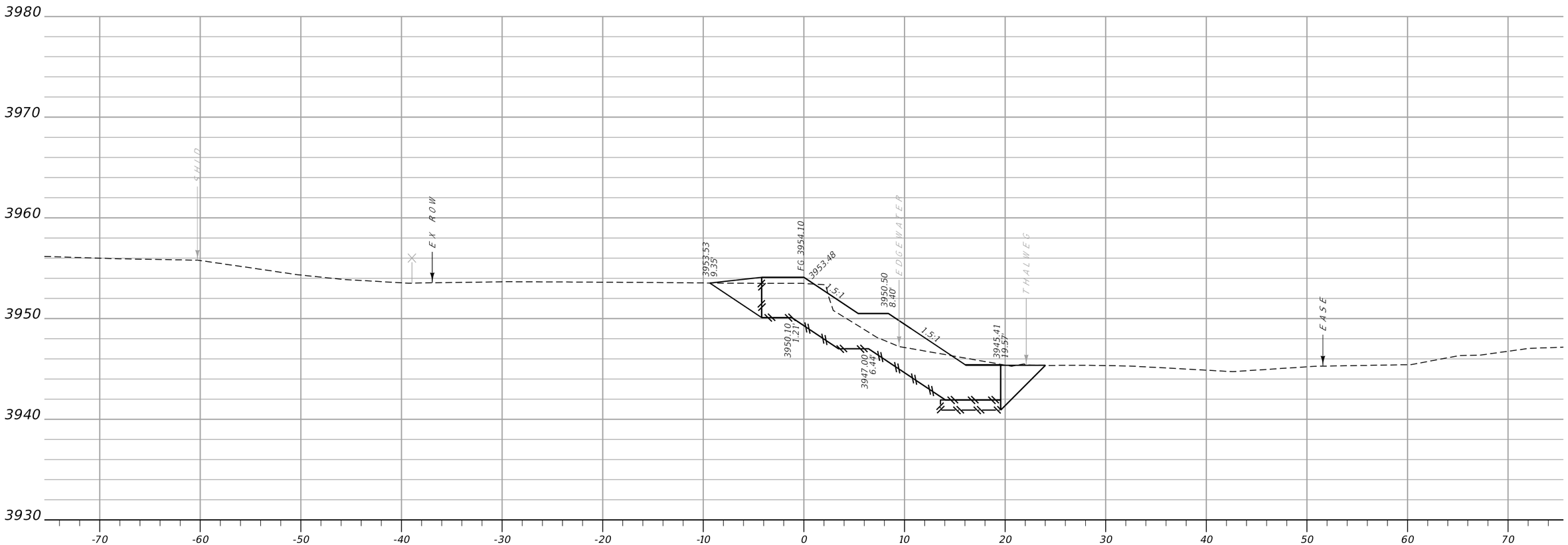



CA: 99.0 SF CV: 45 CY **Sta. 19+00.00 R1** FV: 0 CY FA: 0.0 SF MO: 2001 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:46 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 20 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

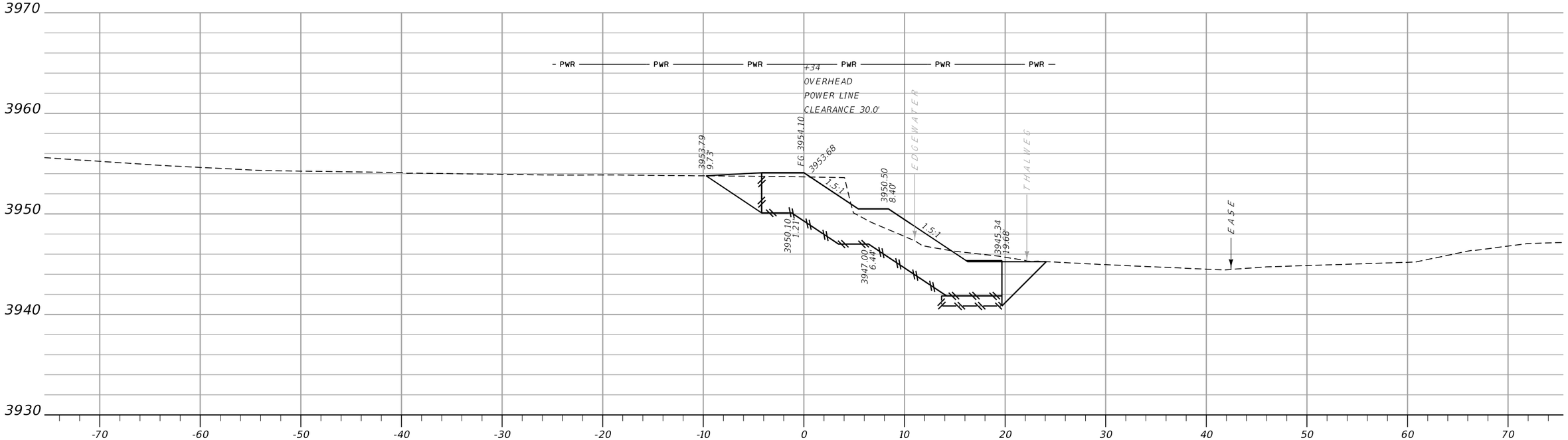



CA: 106.1 SF CV: 76 CY **Sta. 19+20.00 R1** FV: 0 CY FA: 0.0 SF MO: 2077 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:51 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 21 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

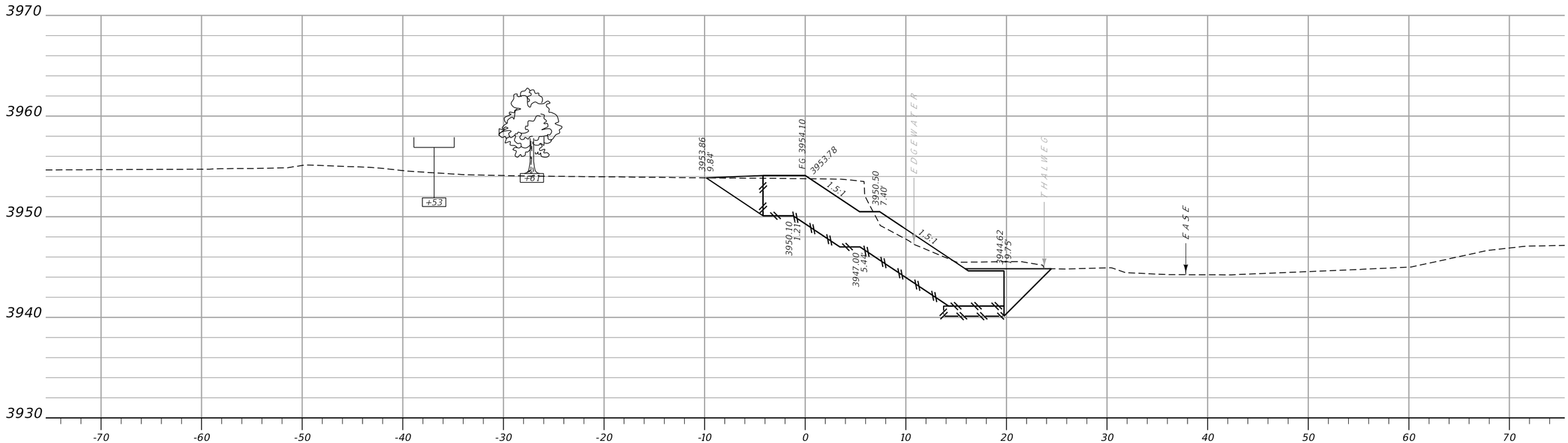



CA: 121.8 SF CV: 84 CY **Sta. 19+40.00 R1** FV: 0 CY FA: 0.0 SF MO: 2162 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:55 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 22 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

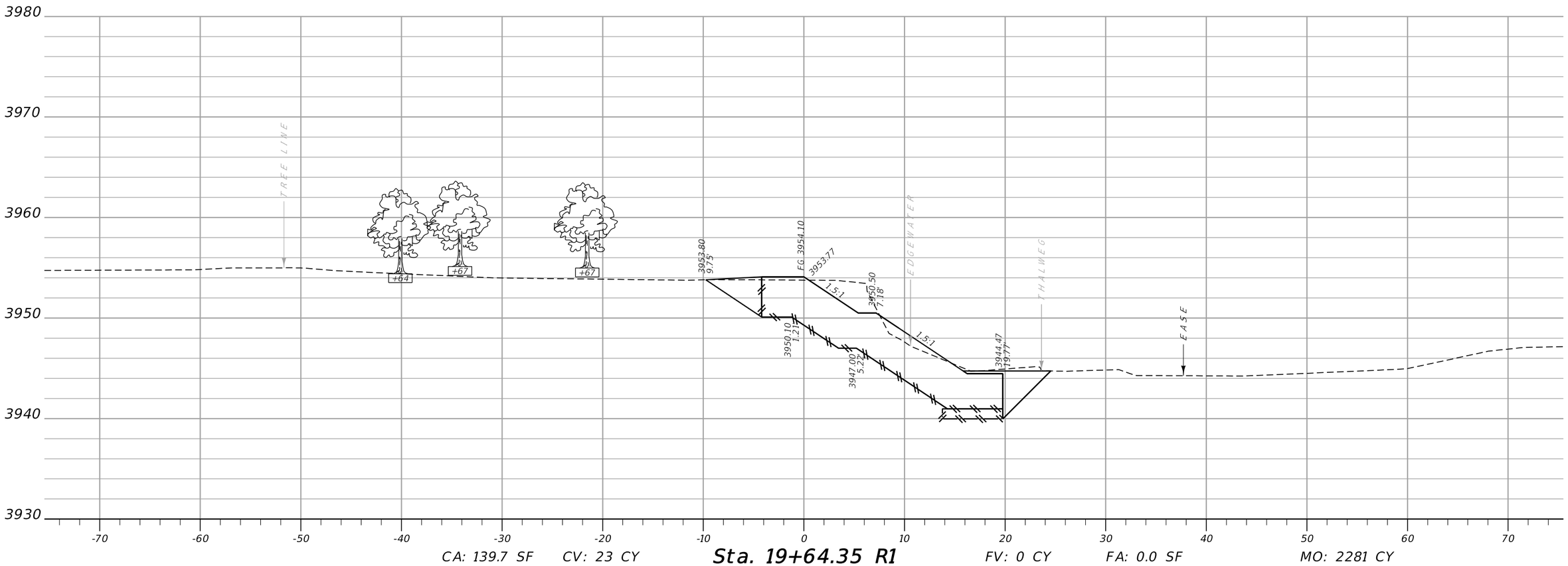



CA: 139.8 SF CV: 97 CY **Sta. 19+60.00 R1** FV: 0 CY FA: 0.0 SF MO: 2259 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:17:59 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 23 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

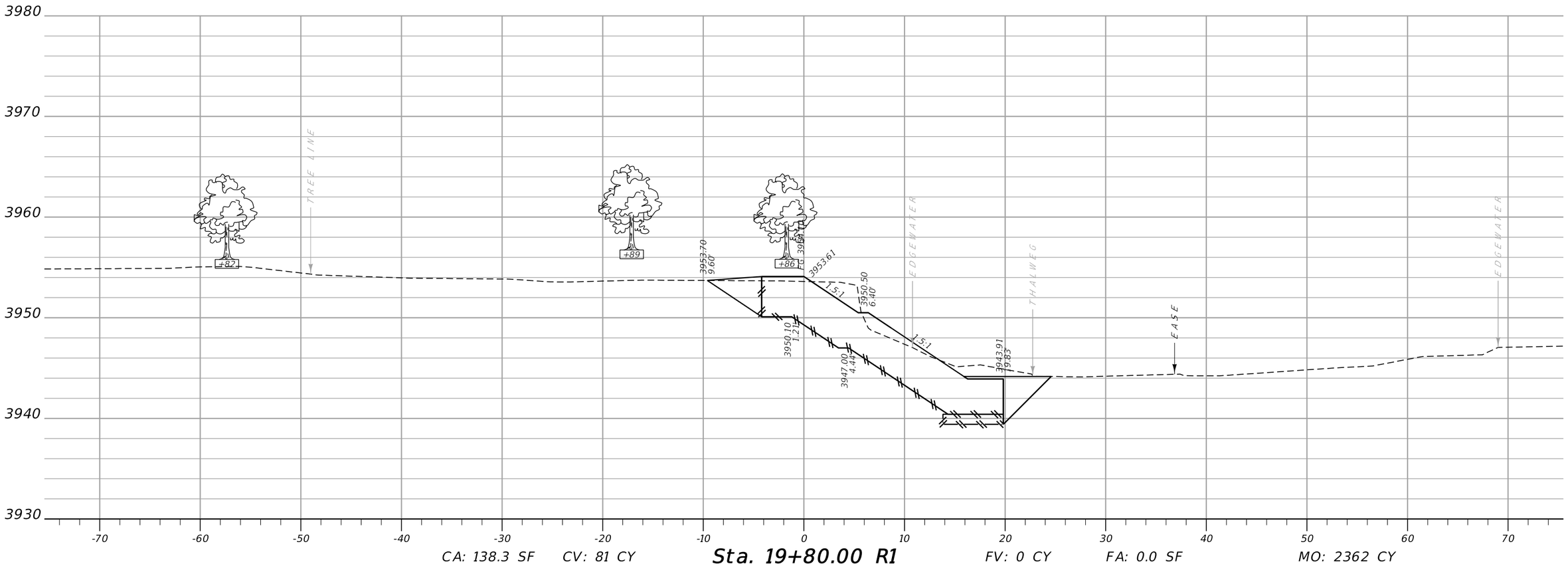



CA: 139.7 SF CV: 23 CY **Sta. 19+64.35 R1** FV: 0 CY FA: 0.0 SF MO: 2281 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:18:03 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 24 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

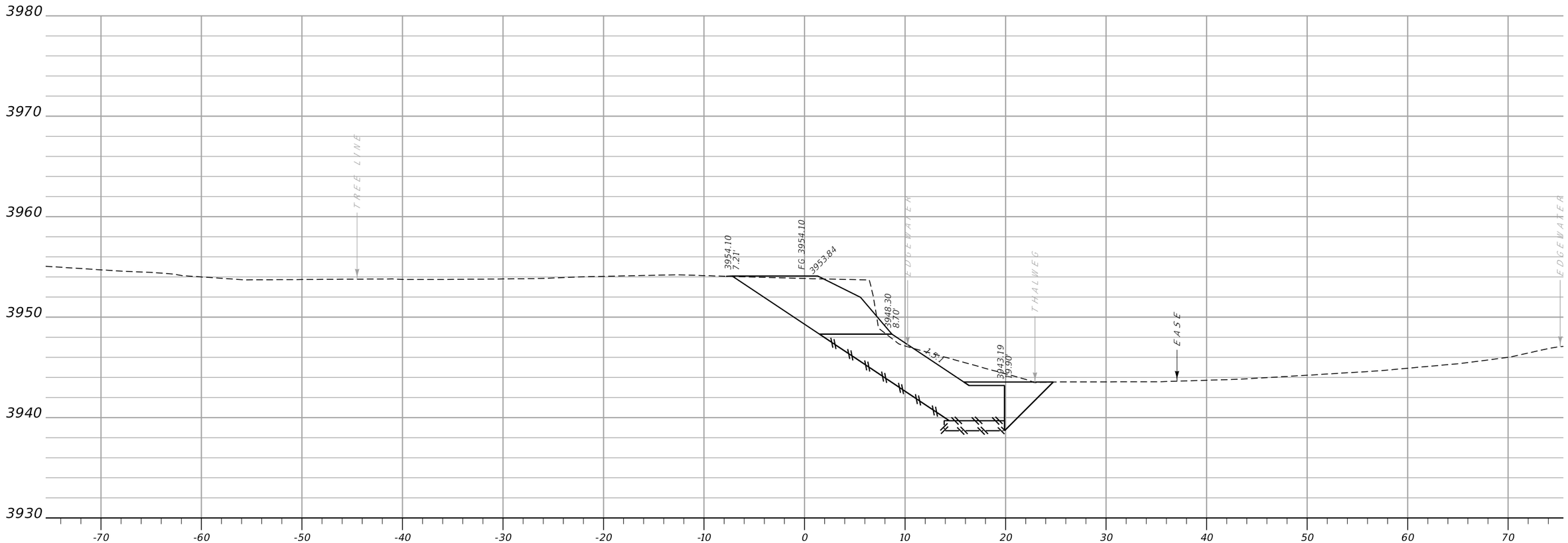



CA: 138.3 SF CV: 81 CY **Sta. 19+80.00 R1** FV: 0 CY FA: 0.0 SF MO: 2362 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:18:08 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 25 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

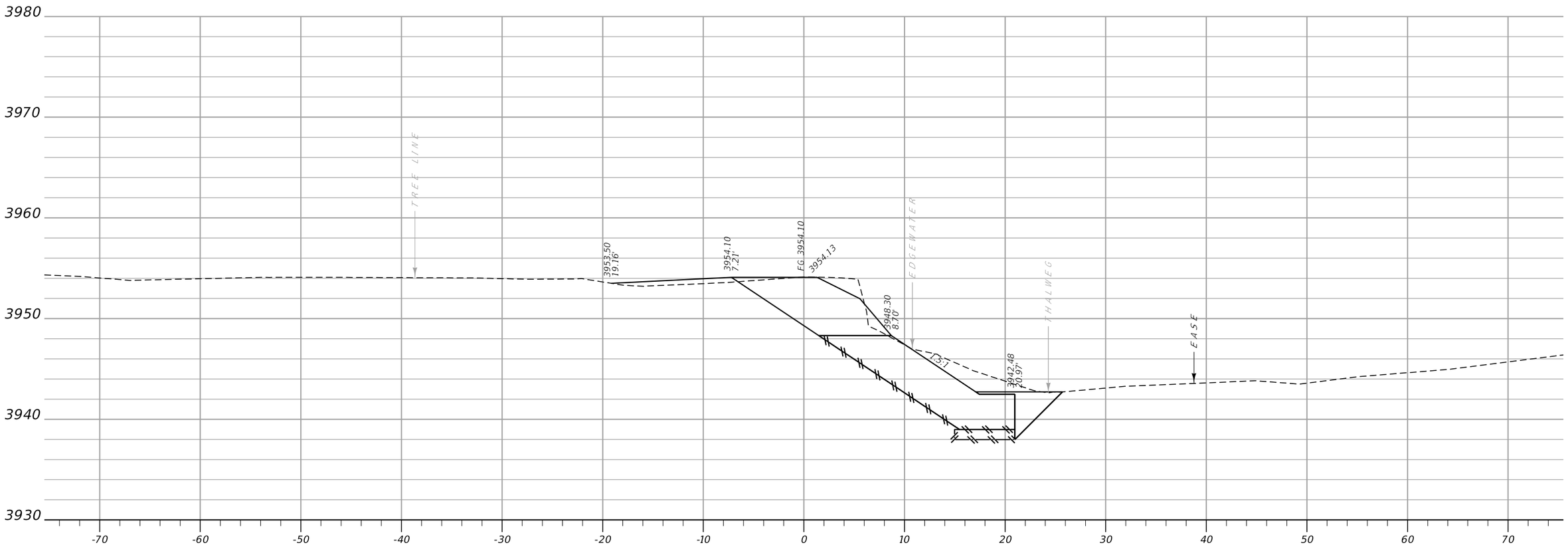



CA: 149.3 SF CV: 107 CY **Sta. 20+00.00 R1** FV: 0 CY FA: 0.0 SF MO: 2468 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:18:12 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 26 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

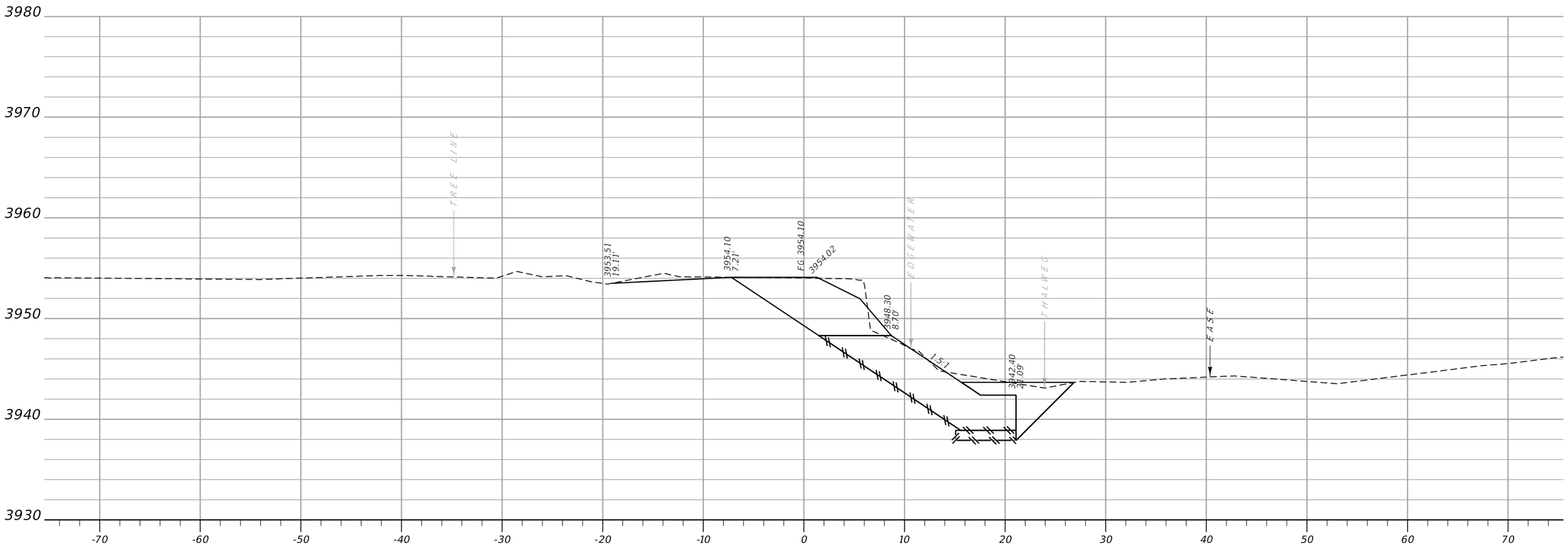



CA: 152.8 SF CV: 112 CY **Sta. 20+20.00 R1** FV: 2 CY FA: 5.2 SF MO: 2578 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:18:16 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 27 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

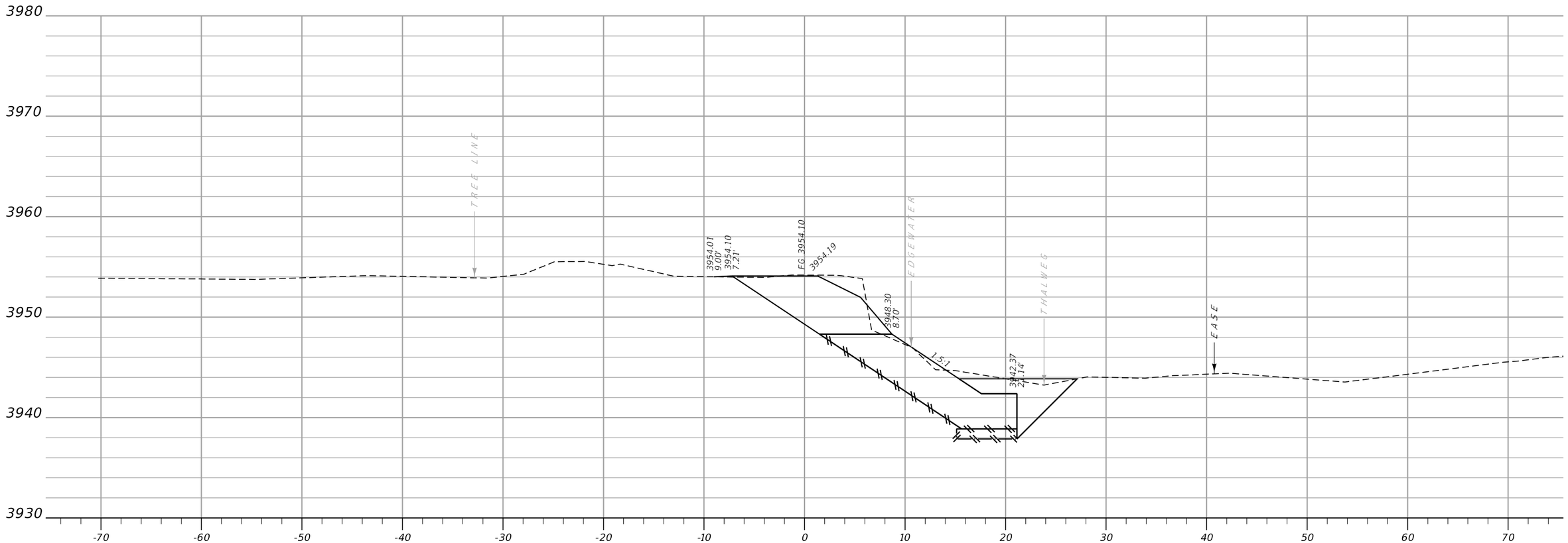



CA: 155.3 SF CV: 63 CY **Sta. 20+31.02 R1** FV: 1 CY FA: 0.0 SF MO: 2640 CY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:18:20 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 28 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9

AWARD COPY

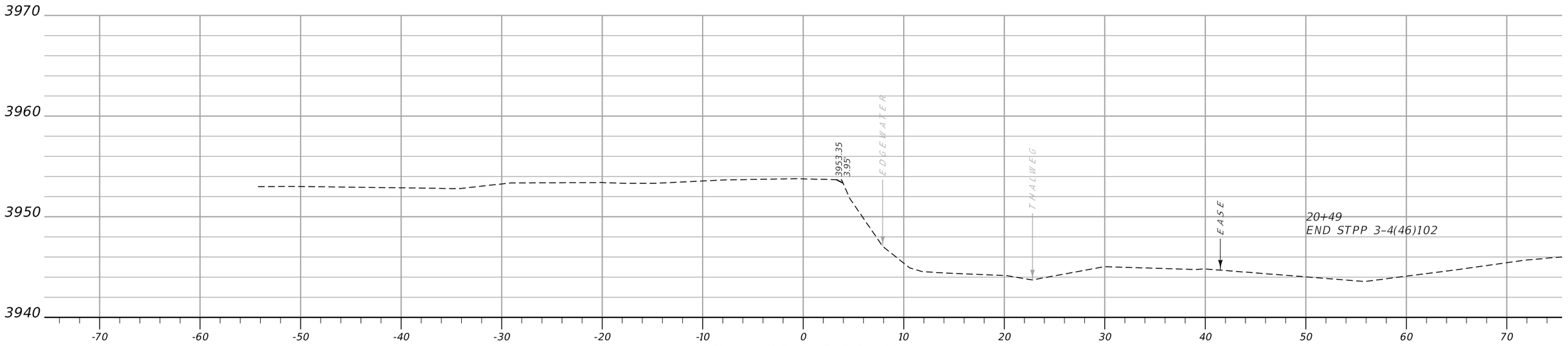



CA: 152.9 SF CV: 23 CY **Sta. 20+35.00 R1** FV: 0 CY FA: 0.1 SF MO: 2663 CY

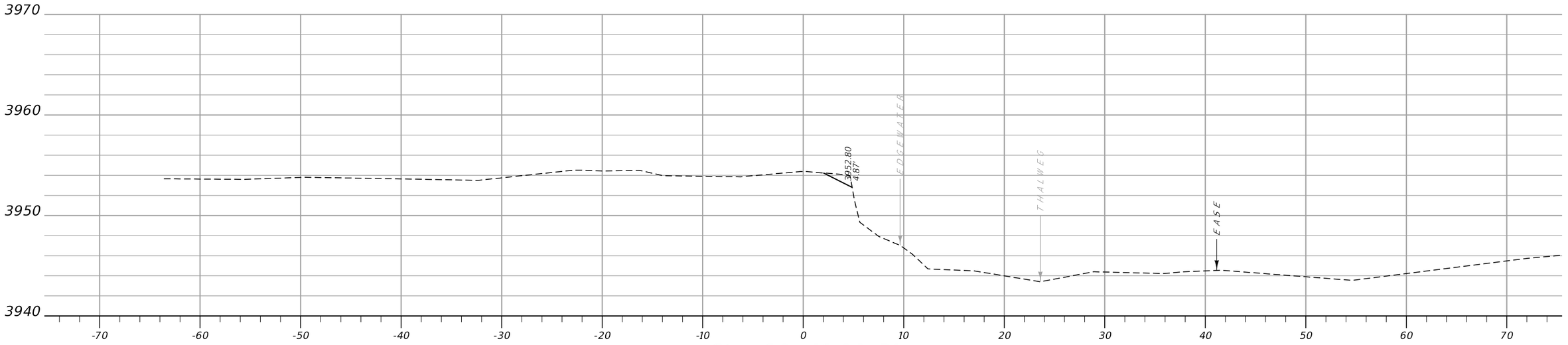
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE | STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | | |
| | 9:18:25 AM CPS – U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 | SHEET 29 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9






CA: 0.1 SF CV: 0 CY **Sta. 20+49.00 R1** FV: 0 CY FA: 0.0 SF MO: 2678 CY

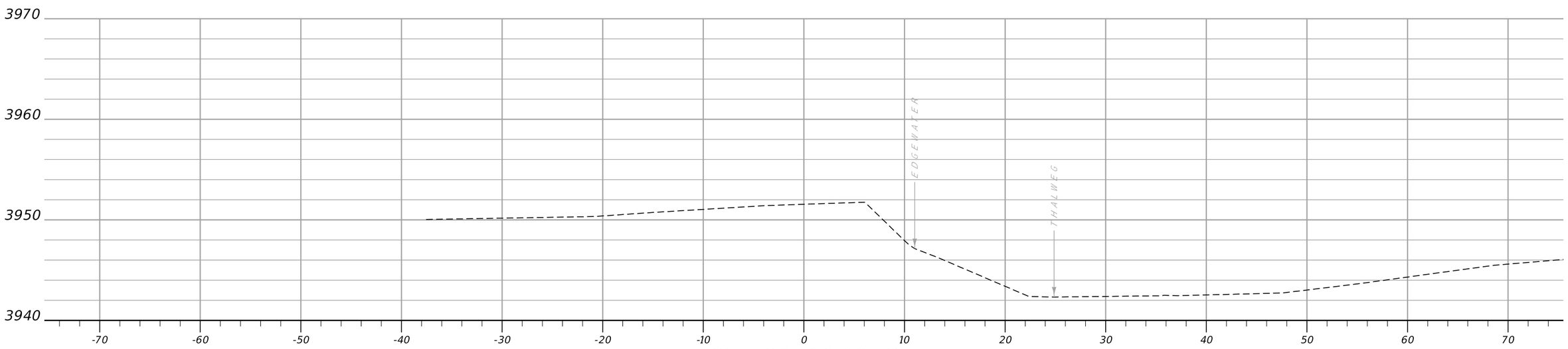



CA: 1.5 SF CV: 14 CY **Sta. 20+40.00 R1** FV: 0 CY FA: 0.0 SF MO: 2677 CY

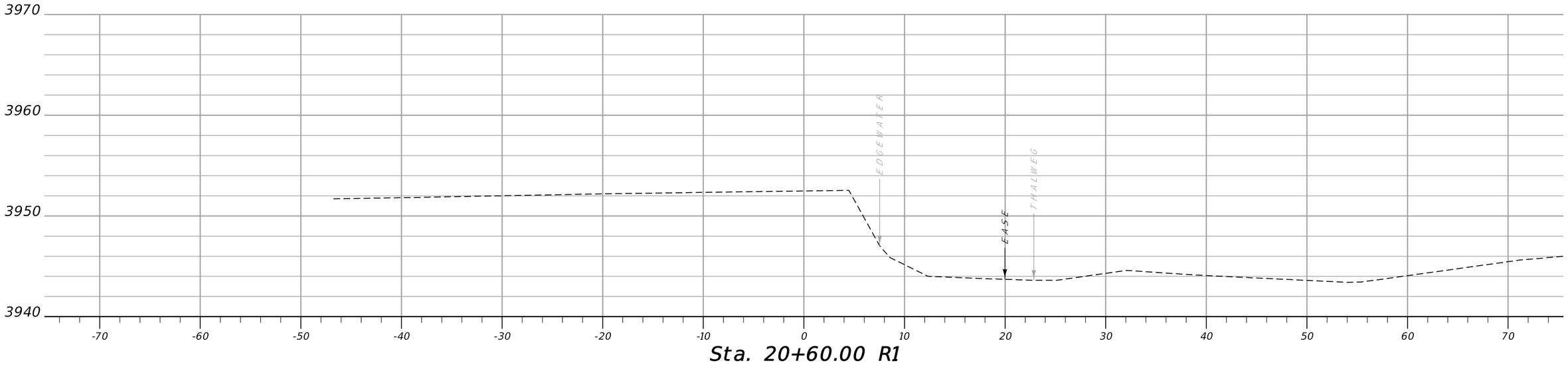
| | | | | | | |
|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE / STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | |
| | 9:18:29 AM CPS - U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 / SHEET 30 |

DocuSign Envelope ID: FA54D84C-AF88-43A9-B0E4-1AAC63FDD4A9






Sta. 20+80.00 R1




Sta. 20+60.00 R1

| | | | | | | |
|---|---|---|---|---|---|---|
| MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9838000rdlay001.dgn | DESIGNED BY | CHRIS WARD | 8/3/2020 | STREAMBANK CROSS SECTIONS | US-89 EROSION RPR-TWO MEDICINE / STPP 3-4(46)102 |
| | 7/22/2021 | REVIEWED BY | JEANIA CERECK | 8/25/2020 | | |
| | 9:18:33 AM CPS – U4503 | CHECKED BY | JERRY SABOL | 9/29/2020 | GLACIER COUNTY | UPN 9838000 / SHEET 31 |