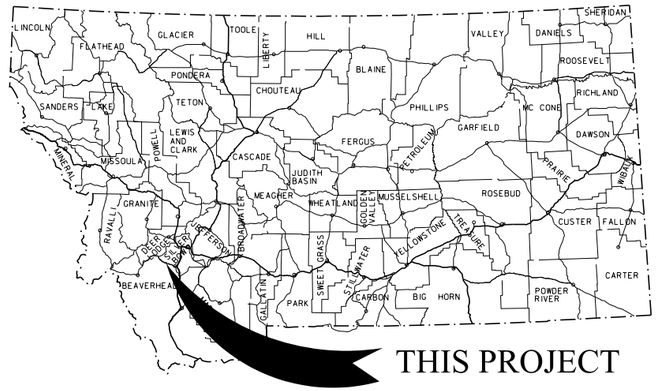
AWARD COPY



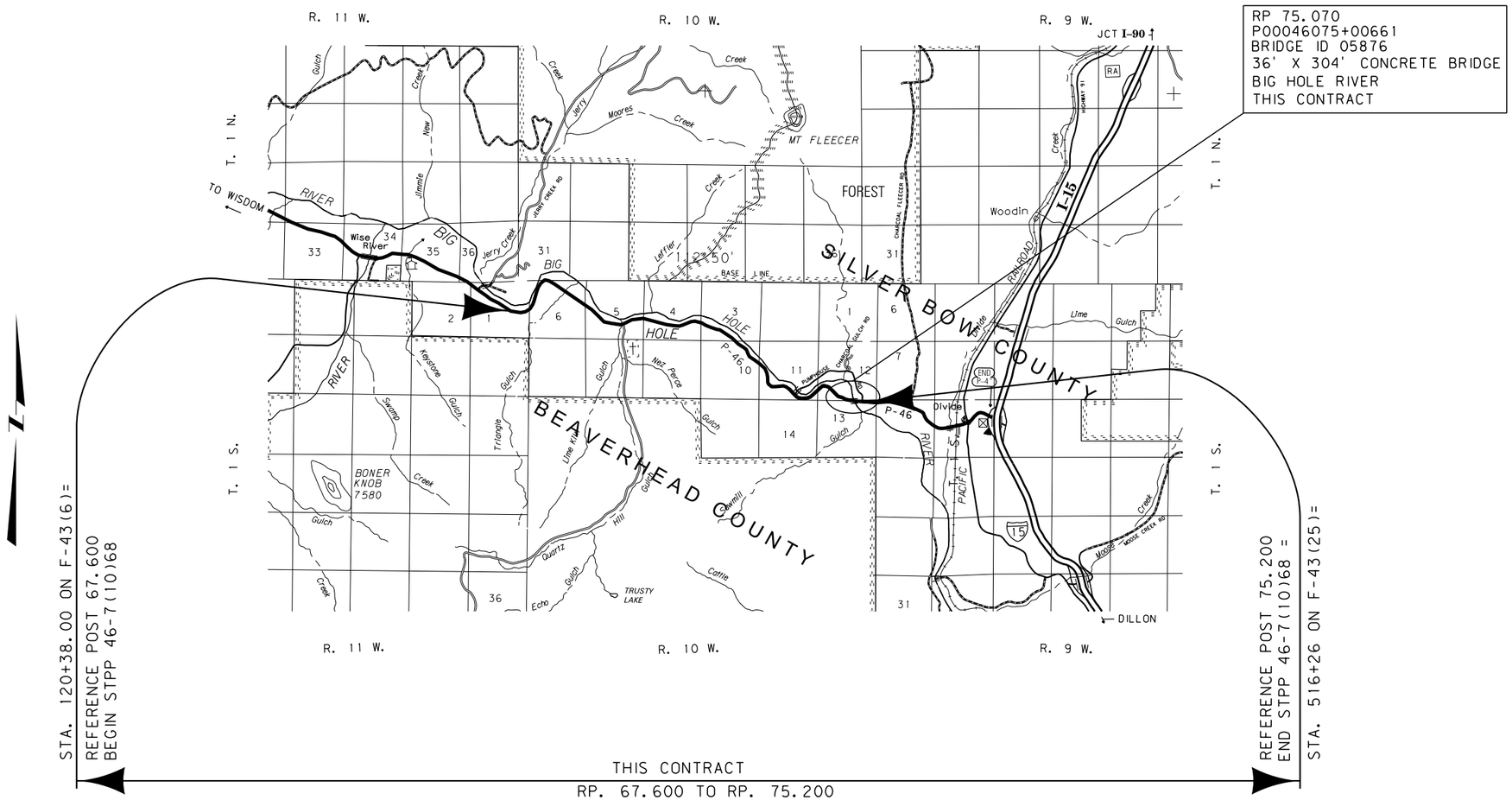

# MONTANA DEPARTMENT OF TRANSPORTATION

| | | |
|---|---|---|
| PRESENT | A.D.T. = | N/A |
| LETTING | A.D.T. = | |
| DESIGN | A.D.T. = | |
| | D.H.V. = | |
| | TRUCKS = | |
| | V. = | |
| | 18 KIP ESAL'S = | |
| | GROWTH RATE = | |

## FEDERAL AID PROJECT STPP 46-7(10)68
## GUARDRAIL
## EAST OF WISE RIVER - GUARDRAIL
## BEAVERHEAD & SILVER BOW COUNTIES

LETTING DATE - _____

LENGTH 7.600 MILES




| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9249000rdtl001.dgn | DESIGNED BY | Kevin Mueller | 6/12/2019 | ROAD PLANS |
| 2 | | 9/10/2020 | REVIEWED BY | | | BEAVERHEAD & SILVER BOW COUNTIES |
| | | 3:30:25 PM CPS - U3829 | CHECKED BY | | | |

AWARD COPY

# TABLE OF CONTENTS


| ROAD PLANS | SHEET NO. |
|---|---|
| TITLE SHEET | 1 |
| TABLE OF CONTENTS | 2 |
| NOTES | 2 |
| SUMMARIES | 3 |
| GUARDRAIL | 3 |
| CURB | 3 |
| CONCRETE BARRIER RAIL | 3 |
| BRIDGE PLANS | |
| DETAIL | B1 |


# NOTES

## UTILITIES

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

REFERENCE POST 73.800 TO RP 73.870 LEFT -
OVERHEAD POWERLINE, CLEARANCE UNKNOWN.

## WETLANDS

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

## AS-BUILTS

F 43(6) (ORIGINAL CONSTRUCTION - 1948)
F 43(25) (ORIGINAL CONSTRUCTION - 1968)

# SUMMARY

## GUARDRAIL

| REFERENCE POSTS | | linear feet | | | | each | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | REMOVE GUARDRAIL | | MGS GUARDRAIL LONG POSTS # | | MASH THRIE BEAM BRIDGE APPROACH SECTION | | MASH W-BEAM TERMINAL SECTION | | MGS ONE-WAY DEPARTURE TERMINAL SECTION | | GUARDRAIL END SECTION WIDENING | | |
| FROM | TO | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | LEFT | RIGHT | |
| 67.791 | 67.975 | 975.0 | | 875.0 | | | | 2 | | | | 2 | | |
| 68.076 | 68.711 | 3,350.0 | | 3,250.0 | | | | 2 | | | | 2 | | |
| 70.017 | 70.401 | 2,037.5 | | 1,937.5 | | | | 2 | | | | 2 | | |
| 71.192 | 71.619 | 2,250.0 | | 2,150.0 | | | | 2 | | | | 2 | | |
| 71.627 | 72.095 | 2,475.0 | | 2,375.0 | | | | 2 | | | | 2 | | |
| 72.125 | 73.532 | 7,425.0 | | 7,362.5 | | | | 1 | | 1 | | 1 | | INCLUDES 75' OF SHOP BENT RAIL |
| 73.559 | 73.941 | 2,012.5 | | 1,912.5 | | | | 2 | | | | 2 | | |
| 73.952 | 74.371 | 2,212.5 | | 2,187.5 | | | | | | 2 | | | | INCLUDES 50' OF SHOP BENT RAIL (37.5' -START OF RUN, 12.5' AT END OF RUN) |
| 74.375 | 74.794 | 2,212.5 | | 2,112.5 | | | | 2 | | | | 2 | | REMOVE BENT RAIL AND REPLACE WITH TERMINAL SECTION |
| 75.007 | 75.069 B.E. | | 325.0 | | 237.5 | | 1 | | 1 | | | | 1 | |
| 75.044 | 75.066 B.E. | 112.5 | | 25.0 | | 1 | | 1 | | | | 1 | | |
| 75.124 B.E. | 75.146 | 112.5 | | 25.0 | | 1 | | 1 | | | | 1 | | |
| 75.127 B.E. | 75.150 | | 112.5 | | 25.0 | | 1 | | 1 | | | | 1 | |
| **SUBTOTAL** | | **25,175.0** | **437.5** | **24,212.5** | **262.5** | **2** | **2** | **17** | **2** | **3** | **~** | **17** | **2** | |
| **TOTAL** | | **25,612.5** | | **24,475.0** | | **4** | | **19** | | **3** | | **19** | | |

# 7.5 FT. WOOD POST CAN BE SUBSTITUTED FOR STEEL POSTS

## CURB

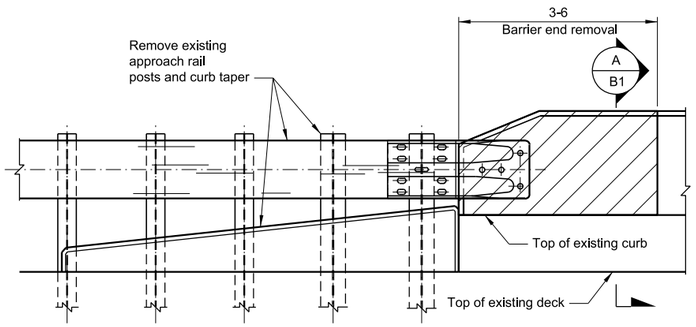
| REFERENCE POSTS | | linear feet | | | | REMARKS |
|---|---|---|---|---|---|---|
| | | REMOVE CURB | | CONCRETE CURB 4 in | | |
| FROM | TO | LEFT | RIGHT | LEFT | RIGHT | |
| 74.722 | 74.794 | 380.0 | | 380.0 | | |
| 74.995 | 75.066 B.E. | 375.0 | | 375.0 | | |
| 75.124 B.E. | 75.195 | 350.0 | | 350.0 | | |
| 75.127 B.E. | 75.193 | | 375.0 | | 375.0 | |
| **SUBTOTAL** | | **1,105.0** | **375.0** | **1,105.0** | **375.0** | |
| **TOTAL** | | **#** | | **1,480.0** | | |

# FOR INFORMATION ONLY - INCLUDED IN THE COST OF NEW CONCRETE CURB

## CONCRETE BARRIER RAIL

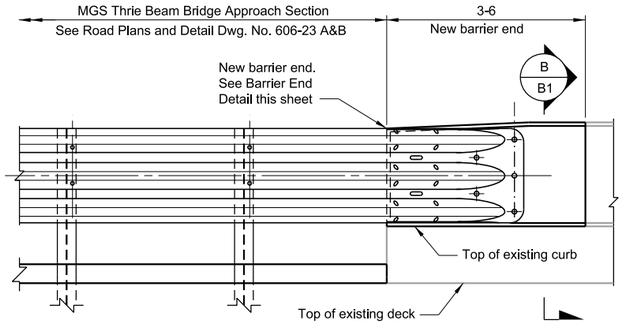
| REFERENCE POSTS | | each | REMARKS |
|---|---|---|---|
| | | REVISE CONC BARRIER RAIL END-BR # | |
| FROM | TO | | |
| ~ | ~ | 4 | BRIDGE ID 05876 - BIG HOLE RIVER |
| **TOTAL** | | **4** | |

# - SEE DETAIL AND SPECIAL PROVISION




EXISTING BRIDGE RAIL: PARTIAL ELEVATION

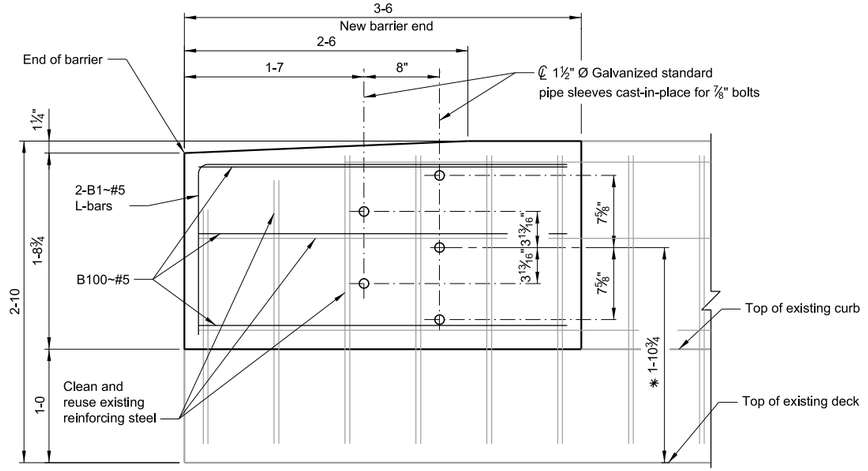
Scale ~ ¾" = 1-0




NOTE: One approach shown, detail similar at all four corners of structure.

NEW CONCRETE BARRIER END : PARTIAL ELEVATION

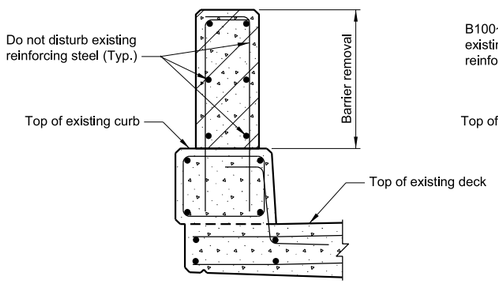
Scale ~ ¾" = 1-0




BARRIER END DETAIL

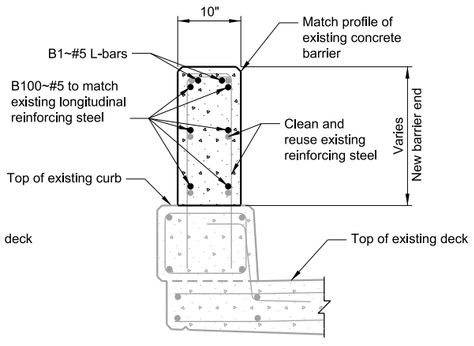
Scale ~ 1½ = 1-0

* NOTE: Adjust approach rail post heights to accommodate higher rail height.




A B1 EXISTING BARRIER SECTION

Scale ~ 1" = 1-0



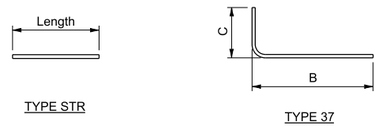

B B1 NEW BARRIER END

Scale ~ 1" = 1-0

BILL OF REINFORCING STEEL

(FOR ONE BARRIER END ONLY)
(ALL DIMENSIONS ARE OUT TO OUT)

(FOR INFORMATION ONLY)




| Mark | Size | No. | Type | Length | A | B | C | D | E | G | N |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B1 | 5 | 2 | 37 | 4-9 | | 3-3 | 1-6 | | | | |
| | | | | | | | | | | | |
| B100 | 5 | 6 | STR | 3-3 | | | | | | | |

SHEET NO.
B1

REVISE CONCRETE BARRIER
RAIL - BR

SCALE: As Shown

BRIDGE OVER BIG HOLE RIVER

REFERENCE POINT
75+0.060

ROUTE
00043

FEDERAL AID PROJECT NO.
STPP 46-7(10)68

BEAVERHEAD COUNTY

MDT
MONTANA DEPARTMENT
OF TRANSPORTATION

BRIDGE BUREAU

| | | | |
|---|---|---|---|
| REVISED | | | |
| REVISED | | | |
| REVISED | | | |
| REVISED | | | |
| CHECKED | 7-12-19 | M.S.K. | |
| DRAWN | 6-18-19 | D.G.G. | |
| DESIGNED | 6-18-19 | D.G.G. | C:\DGN\9249000\drn\001.dgn |
| 9/10/2020 | 3:30:52 PM | | |

UPN NUMBER
9249000

MDT STRUCTURE
05876

DRAWING NO.
23898