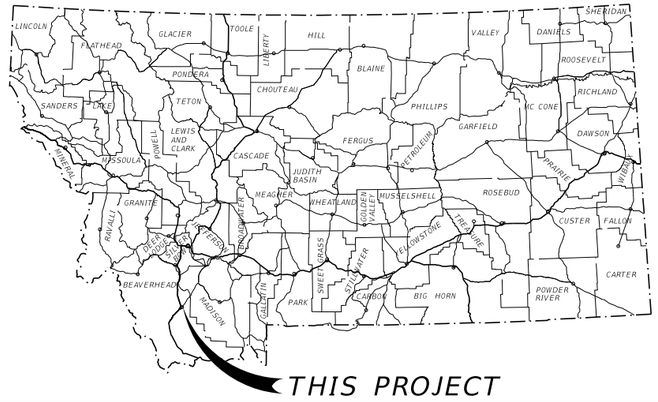
AWARD COPY




# MONTANA DEPARTMENT OF TRANSPORTATION

## FEDERAL AID PROJECT NO. NH 49-1(27)0
## SEAL AND COVER
## DILLON - NORTH
## BEAVERHEAD COUNTY

| PROJECT DESIGN DATA | | |
|---|---|---|
| PRESENT | 2019 | A.D.T. = 2730 |
| LETTING | 2021 | A.D.T. = 2780 |
| DESIGN | 2041 | A.D.T. = 3400 |
| | | D.H.V. = 400 |
| | | TRUCKS = 14.9 % |
| | | V. = RP 0.00 TO RP 1.06 = 40 MPH |
| | | V. = RP 1.06 TO RP 9.04 = 70 MPH |
| | | 18 KIP ESAL'S = 231 DAILY |
| | | GROWTH RATE = 1.0 % ANNUALLY |

LETTING DATE - _____

SURFACING SOURCES -
CONTRACTOR FURNISHED

LENGTH 8.6 MILES

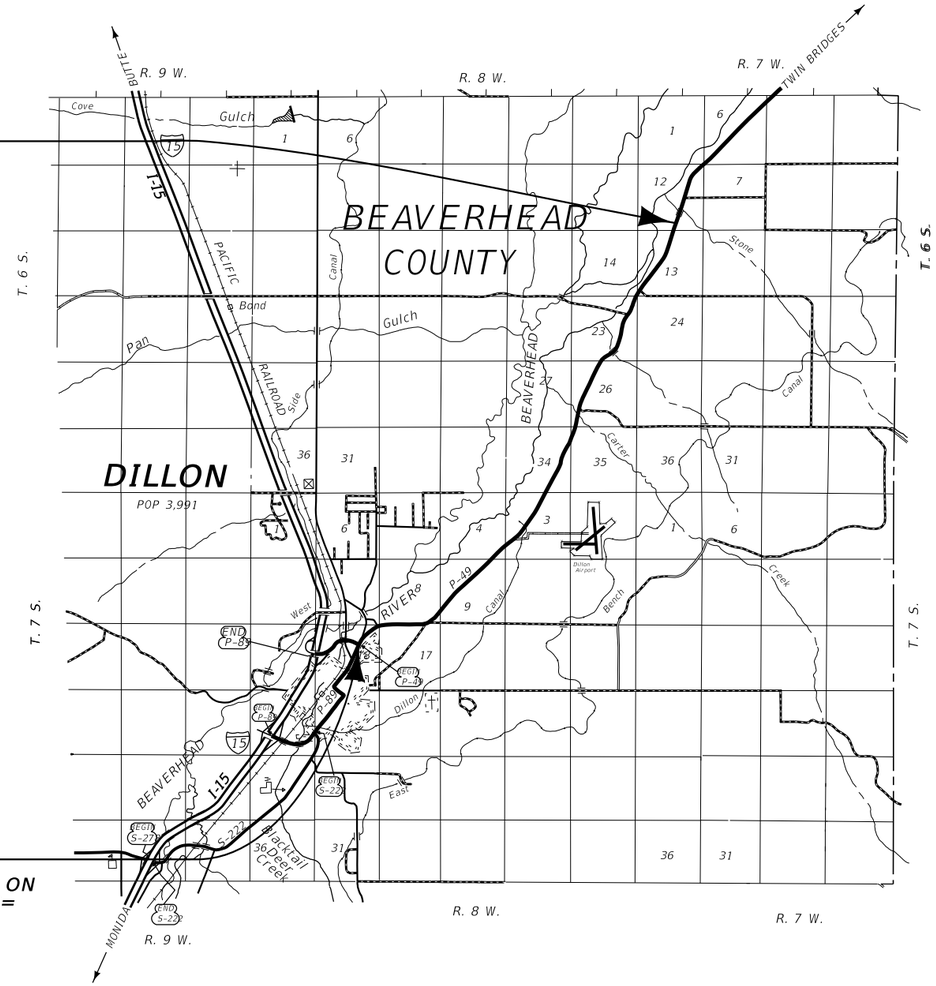
STA 455+00.00 ON
STPP 49-1(7)2=

STA 464+97.74
END NH 49-1(27)0

THIS CONTRACT
RP 0.0 TO RP 8.6

STA 10+00.00
BEGIN NH 49-1(27)0

STA 13+76.12 (MET) ON
STPP-STPE 49-1(16)0=




| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | MDT | MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9474000rdtl001.dgn | DESIGNED BY | Kevin Muelle | 8/26/2020 | ROAD PLANS |
| 2 | | | 9/8/2020 | REVIEWED BY | K. MUELLER | 4/17/2020 | |
| | | | 7:51:04 AM CPS - U4503 | CHECKED BY | | | UPN 9474000 |

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# NOTES

## BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

| | |
|---|---|
| BITUMINOUS MATERIAL | = 8.5 LBS. PER GAL. |
| EMULSIFIED ASPHALT - FOG SEAL (S & C) | = 0.075 GAL. PER SQ.YARD (UNDILUTED) |
| SEAL | = 0.42 GAL. PER SQ.YARD |
| COVER | = 25 LBS. PER SQ.YARD |

## AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING,REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):
STPP 49-1(7)2
STPP-STPE 49-1(16)0

THE ROAD PLANS WERE STATIONED WITH AN ASSUMED STATION BEGINNING AT 10+00.00. AS-BUILT PLANS WERE NOT USED.

STATIONING USED IN PLANS WAS GENERATED BY A BEST FIT METHOD. IT IS NOT INTENDED TO BE EXACT. BUT REPRESENT LOCATIONS WHERE WORK IS REQUIRED.

## 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.

## 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.

# LINEAR DATA

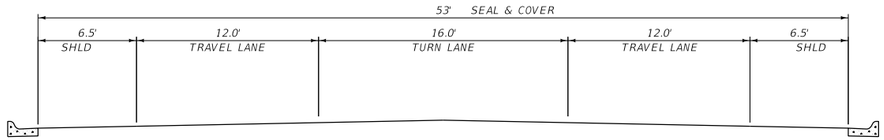
| | | | |
|---|---|---|---|
| LENGTH OF ROADWAY | BEAVERHEAD COUNTY | 2-LANE RURAL | 45,497.74 ft |
| LENGTH OF BRIDGE | BEAVERHEAD COUNTY | 2-LANE RURAL | 0.00 ft |
| TOTAL LENGTH OF | NH 49-1(27)0 | 2-LANE RURAL | 45,497.74 ft |

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# TYPICAL SECTION NO. 1

**MAINLINE**

STA. 10+00.0 TO STA. 41+50.0

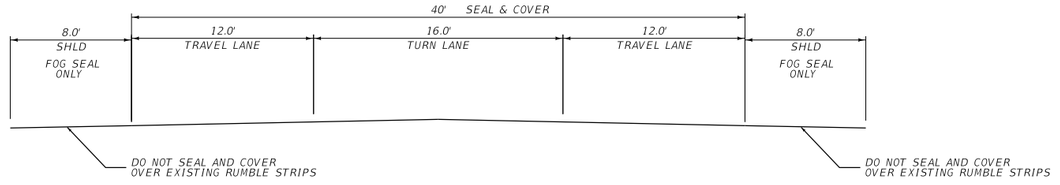



| QUANTITIES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIT | AGGREGATE | | | | | | UNIT | BITUMINOUS MATERIAL | | |
| | COVER | | | | | | | | SEAL | |
| AREA square feet<br>cubic yards PER STATION<br>tons PER STATION<br>square yards PER STATION | 589 | | | | | | square yards PER STATION<br>tons PER STATION | | 589<br>1.05 | |

# TYPICAL SECTION NO. 2

**MAINLINE**

STA. 41+50.0 TO STA. 85+60.0
STA. 85+60.0 TO STA. 89+80.0 TRANSITION TO TYP. SECT. NO 3




| QUANTITIES | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIT | AGGREGATE | | | | | | UNIT | BITUMINOUS MATERIAL | | | |
| | COVER | | | | | | | | SEAL | EMULSIFIED ASPHALT FOG SEAL* | |
| AREA square feet<br>cubic yards PER STATION<br>tons PER STATION<br>square yards PER STATION | 444 | | | | | | square yards PER STATION<br>tons PER STATION<br>gallons PER STATION | | 444<br>0.79 | 178<br>13 | |

*INCLUDES BOTH SHOULDERS

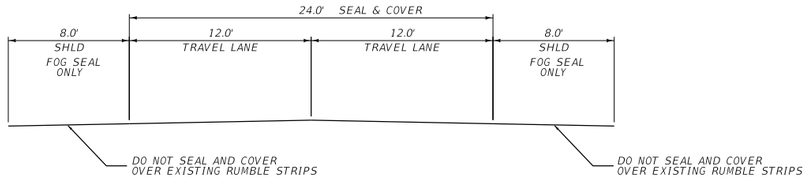
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3<br>2 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9474000rdtyp001.dgn<br>9/8/2020<br>7:51:18 AM CPS - U4503 | DESIGNED BY<br>REVIEWED BY<br>CHECKED BY | Kevin Mueller<br>K. MUELLER | 8/26/2020<br>4/17/2020 | ROAD PLANS<br>BEAVERHEAD COUNTY | DILLON - NORTH<br>UPN 9474000 | NH 49-1(27)0<br>3 |

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# TYPICAL SECTION NO. 3

**MAINLINE**

STA. 89+80.0 TO STA. 464+97.74




| QUANTITIES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIT | AGGREGATE | | | | | | UNIT | BITUMINOUS MATERIAL | | |
| | COVER | | | | | | | | SEAL | EMULSIFIED ASPHALT FOG SEAL* |
| AREA square feet | | | | | | | square yards PER STATION | | 267 | 178 |
| cubic yards PER STATION | | | | | | | tons PER STATION | | 0.48 | |
| tons PER STATION | | | | | | | gallons PER STATION | | | 13 |
| square yards PER STATION | 267 | | | | | | | | | |

*INCLUDES BOTH SHOULDERS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 / 1 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9474000rdtyp001.dgn | DESIGNED BY | Kevin Mueller | 8/26/2020 | ROAD PLANS | DILLON - NORTH / NH 49-1(27)0 |
| | | 9/8/2020 | REVIEWED BY | K. MUELLER | 4/17/2020 | | |
| | | 7:51:23 AM CPS - U4503 | CHECKED BY | | | BEAVERHEAD COUNTY | UPN 9474000 / 4 |

# SUMMARY

## SURFACING

| STATION FROM | STATION TO | linear feet GROSS | linear feet NET | linear feet + | linear feet - | FOR | AGGREGATE square yards COVER TYPE 2 | AGGREGATE square yards | BITUMINOUS MATERIAL tons SEAL CHFRS-2P | BITUMINOUS MATERIAL gallons EMULSIFIED ASPHALT FOG SEAL* | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10+00.00 | 41+50.00 | 3,150.00 | 3,150.00 | | | | 18,554 | | 33.1 | ~ | TYPICAL NO 1 |
| 41+50.00 | 85+60.00 | 4,410.00 | 4,410.00 | | | | 19,580 | | 34.8 | 573 | TYPICAL NO 2 |
| 85+60.00 | 89+80.00 | 420.00 | 420.00 | | | | 1,495 | | 2.7 | 55 | TRANSITION TYP 2 TO TYP 3 |
| 89+80.00 | 464+97.74 | 37,517.74 | 37,517.74 | | | | 100,172 | | 180.1 | 4,877 | TYPICAL NO 3 |
| TOTAL | | 45,497.74 | 45,497.74 | ~ | ~ | | 139,801 | | 250.7 | 5,505 | |

*QUANTITY INCLUDES BOTH SHOULDERS

## PAVEMENT MARKINGS

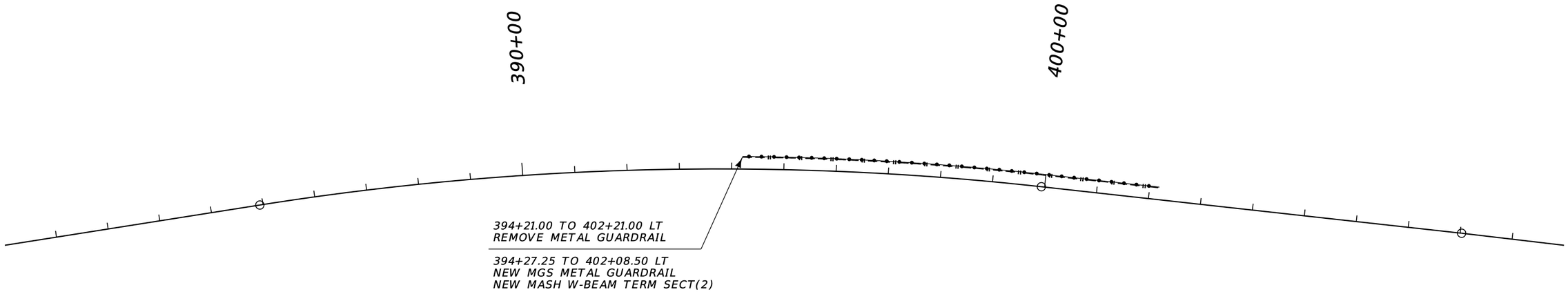
| ITEM | UNIT | INTERIM APPLICATION # | FINAL APPLICATION | TOTAL |
|---|---|---|---|---|
| STRIPING - WHITE PAINT | gallon | 316 | | 316 |
| STRIPING - YELLOW PAINT | gallon | 245 | | 245 |
| WORDS & SYMBOLS - WHITE PAINT | gallon | 20 | | 20 |
| WORDS & SYMBOLS - YELLOW PAINT | gallon | 2 | | 2 |
| | | | | |
| STRIPING - WHITE EPOXY | gallon | | 422 | 422 |
| STRIPING - YELLOW EPOXY | gallon | | 327 | 327 |
| WORDS & SYMBOLS - WHITE EPOXY | gallon | | 26 | 26 |
| WORDS & SYMBOLS - YELLOW EPOXY | gallon | | 2 | 2 |
| CURB - YELLOW EPOXY | gallon | | 95 | 95 |
| | | | | |
| FINAL SWEEP AND BROOM | cr. mile | | | 8.6 |
| | | | | |

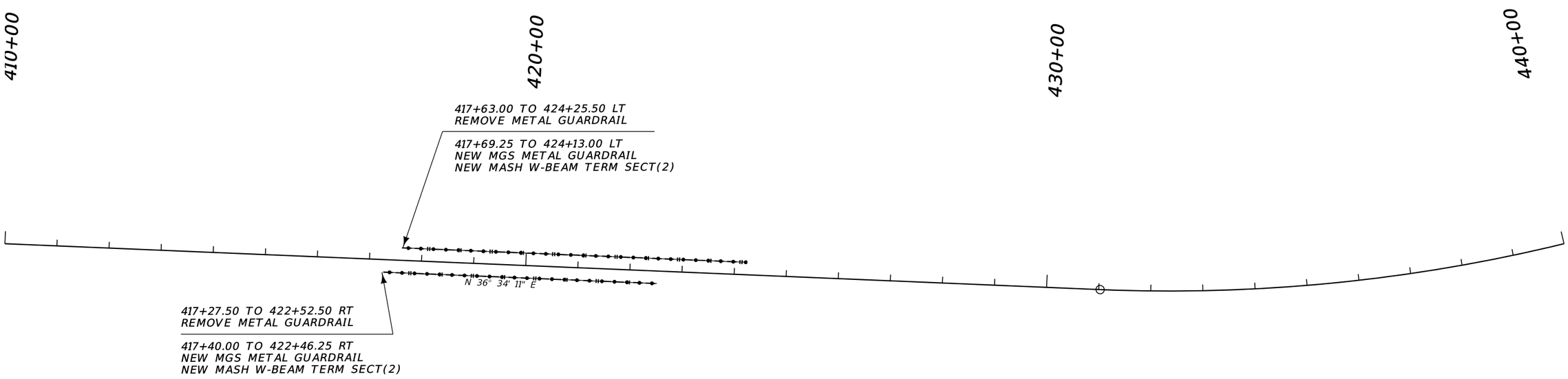
# BASED ON 1 APPLICATION

## GUARDRAIL

| STATION FROM | STATION TO | linear feet REMOVE GUARDRAIL LEFT | linear feet REMOVE GUARDRAIL RIGHT | linear feet MGS GUARDRAIL LEFT | linear feet MGS GUARDRAIL RIGHT | each MASH W-BEAM TERMINAL SECTION LEFT | each MASH W-BEAM TERMINAL SECTION RIGHT | each GUARDRAIL END SECTION WIDENING LEFT | each GUARDRAIL END SECTION WIDENING RIGHT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 394+21.00 | 402+21.00 | 800.0 | | | | | | | | |
| 394+27.25 | 402+08.50 | | | 712.5 | | 2 | | 2 | | |
| 417+27.50 | 422+52.50 | | 525.0 | | | | | | | |
| 417+40.00 | 422+46.25 | | | | 437.5 | | 2 | | 2 | |
| 417+63.00 | 424+25.50 | 662.5 | | | | | | | | |
| 417+69.25 | 424+13.00 | | | 575.0 | | 2 | | 2 | | |
| SUBTOTAL | | 1,462.5 | 525.0 | 1,287.5 | 437.5 | 4 | 2 | 4 | 2 | |
| TOTAL | | 1,987.5 | | 1,725.0 | | 6 | | 6 | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | MDT MONTANA DEPARTMENT OF TRANSPORTATION | C:\DGN\9474000rdpln001.dgn | DESIGNED BY | L. DUNLAP | 4/17/2020 | ROAD PLANS | DILLON - NORTH | NH 49-1(27)0 |
| 2 | | 9/8/2020 | REVIEWED BY | K. MUELLER | 4/17/2020 | | | |
| | | 7:51:44 AM CPS – U4503 | CHECKED BY | | | BEAVERHEAD COUNTY | UPN 9474000 | 6 |