

U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE
 KOOTENAI NATIONAL FOREST
 FILE No.

KOOTENAI NATIONAL FOREST

CRASHED HARVEY TS

DESIGNED BY
P. BALTZ
 DRAWN BY
P. BALTZ
 CHECKED BY
A. NELSON

SHEET TITLE
TITLE SHEET

SHEET NO.
1 OF 8

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
 REGION 1 - KOOTENAI NATIONAL FOREST
FORTINE RANGER DISTRICT

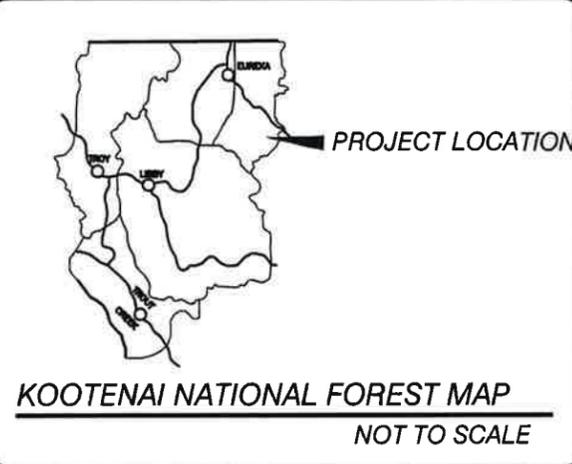
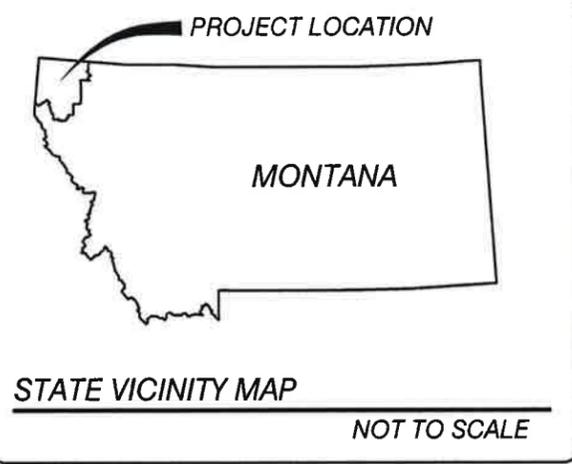
PLANS FOR PROPOSED
 NATIONAL FOREST SYSTEM ROADS
**CRASHED HARVEY
 TIMBER SALE**

PREPARED BY:
Pamela Bats
 PROJECT ENGINEER
 02/01/2016
 DATE

REVIEWED BY:
[Signature]
 ENGINEERING REPRESENTATIVE
 02/01/2016
 DATE

MULTIPLE RESOURCE REVIEW BY:
[Signature]
 DISTRICT RANGER
 02/02/2016
 DATE

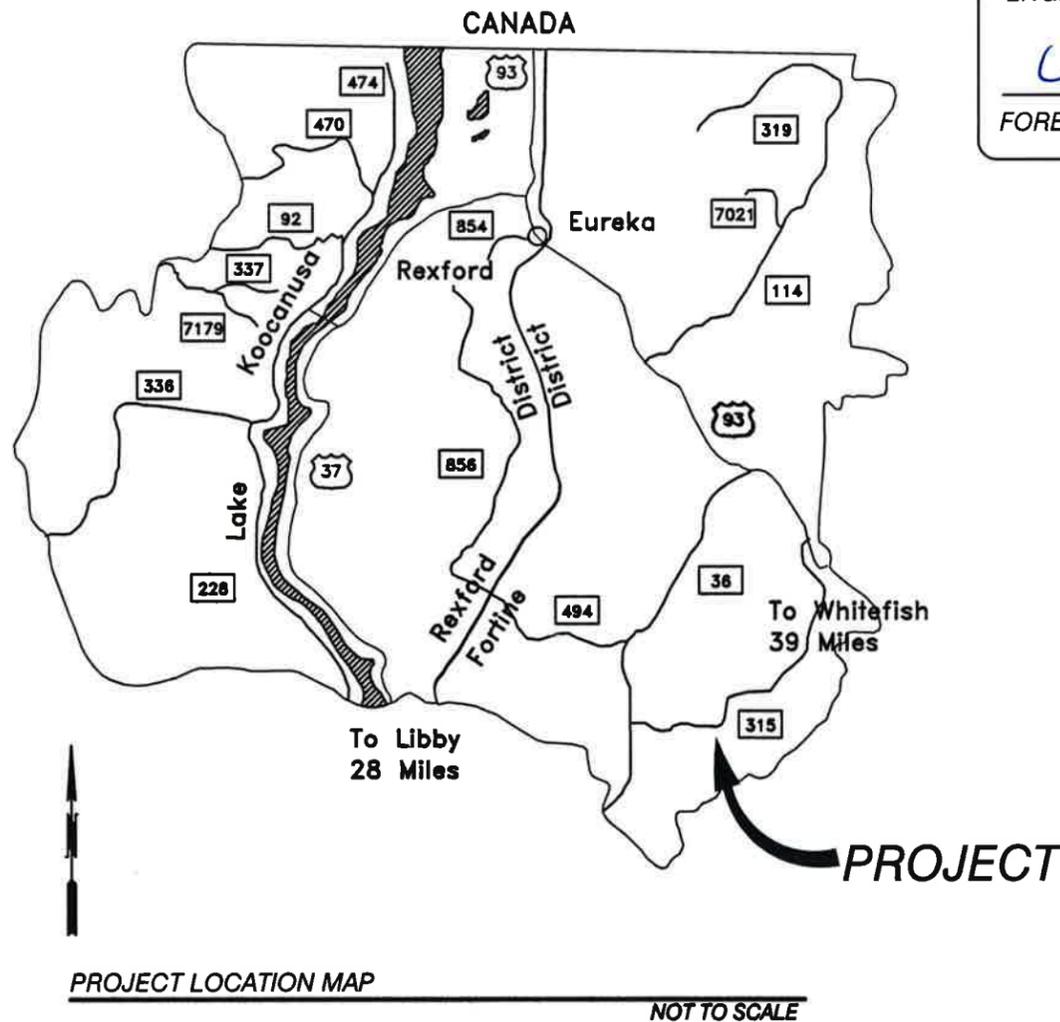
I CERTIFY THAT THIS PROJECT HAS BEEN
 DESIGNED IN ACCORDANCE WITH SOUND
 ENGINEERING PRACTICE.
[Signature]
 FOREST ENGINEER
 2/3/16
 DATE



SPECIFIED ROADS

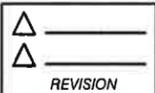
| ROAD NO. | ROAD NAME | LENGTH C/R* | |
|----------|-----------|-------------|---|
| 315 | SUNDAY CR | 6.76 | R |
| 3791 | HARVEY CR | 2.01 | R |

* C = CONSTRUCTION R = RECONSTRUCTION



SHEET INDEX

| SHEET TITLE | SHT. NO. |
|------------------------------|----------|
| TITLE SHEET | 1 |
| VICINITY MAP & GENERAL NOTES | 2 |
| SUMMARY OF QUANTITIES | 3 |
| RECONSTRUCTION LOGS | 4 |
| DETAILS | 5-8 |



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
 KOOTENAI NATIONAL FOREST
 FILE NO.

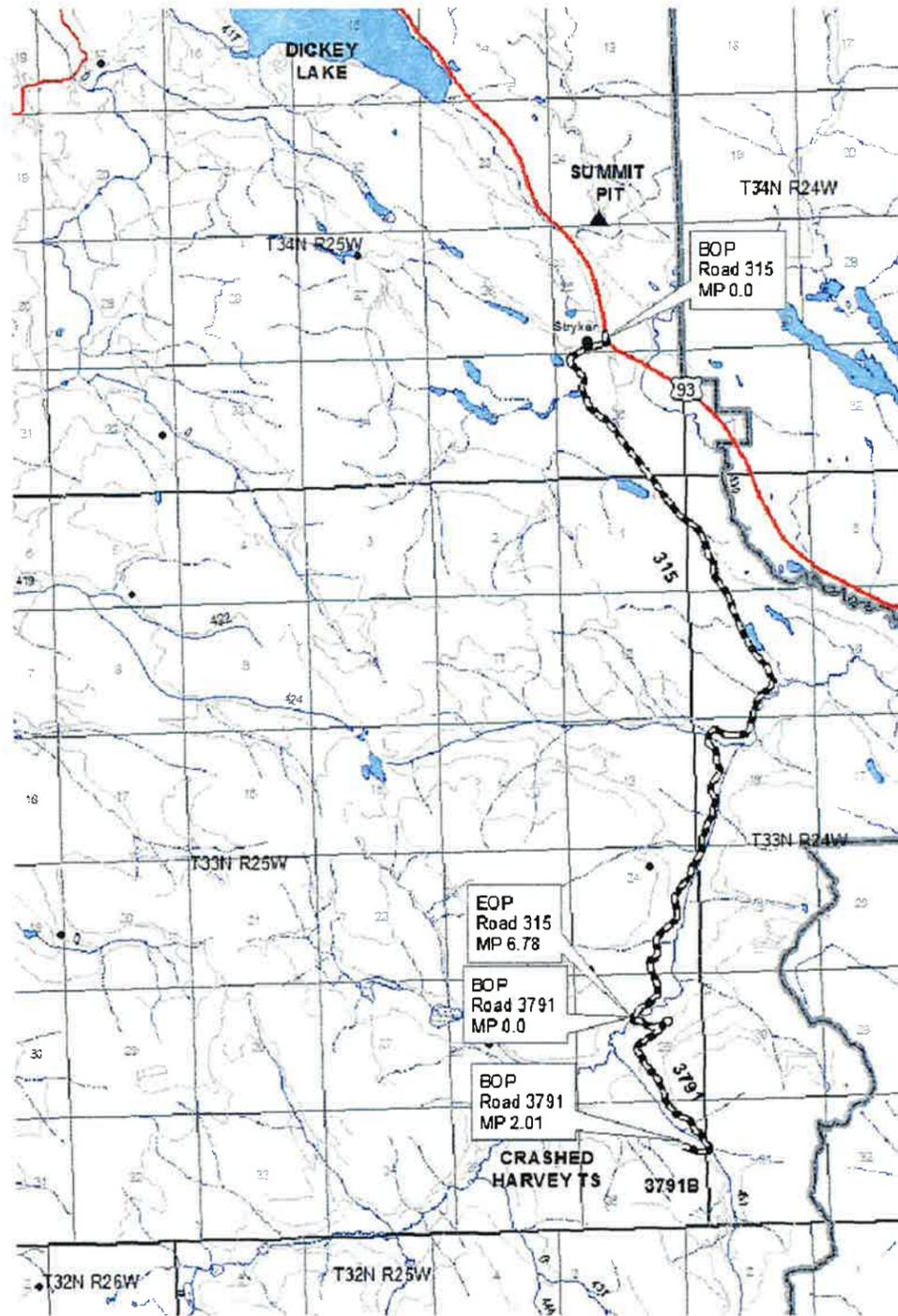
KOOTENAI NATIONAL FOREST
 CRASHED HARVEY TS

DESIGNED BY
P. BALTZ
 DRAWN BY
P. BALTZ
 CHECKED BY
A. NELSON

SHEET TITLE
**VICINITY MAP &
 GENERAL NOTES**

SHEET NO.
2 OF 8

VICINITY MAP



GENERAL NOTES

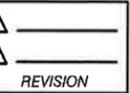
1. NFSR 315 & 3791 SHALL INCLUDE LIGHT RECONDITIONING TO INCLUDE CLEANING DITCHES AND CATCH BASINS, FINISH GRADING WITH BLADE AND SHAPING AS DETERMINED BY THE GOVERNMENT.
2. SECTION 204 / 303 – UNSUITABLE OR OVERSIZED MATERIAL ENCOUNTERED DURING CONSTRUCTION OR RECONSTRUCTION SHALL BE PLACED ALONG THE TOE OF THE FILL, AWAY FROM DRAINAGE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. ALL AGGREGATE AND PIT RUN, AND MATERIAL IS GOVERNMENT FURNISHED. THE PRIMARY LOCATION FOR THESE MATERIALS WILL BE THE SUMMIT CREEK PIT (RD. 1002) – SECTION 24, T34N, R24W.
4. SECTION 625 – ALL DISTURBED AREAS OUTSIDE OF THE ROADWAY SHALL BE SEEDED.
5. ALL CULVERTS SHALL BE INSTALLED BETWEEN THE DATES OF MAY 1 TO OCTOBER 1 UNLESS APPROVED BY THE CO.
6. SCHEDULE OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN WRITING AT THE PRE-WORK MEETING. ANY CHANGES TO THE SCHEDULE OF WORK SHALL BE PRESENTED IN WRITING TO THE CO.
7. CONTRACTOR SHALL WORK MONDAY THROUGH FRIDAY. NO WORK SHALL BE CONDUCTED WEEKENDS OR FEDERAL HOLIDAYS. PRIOR APPROVAL MUST BE RECEIVED FROM THE CO PRIOR TO WORKING OUTSIDE THESE RESTRAINTS.
8. SECTION 602 – CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND AN EROSION CONTROL PLAN TO THE CO IN WRITING PRIOR TO THE START OF WORK. THE COST OF BOTH DEWATERING AND EROSION CONTROL ARE INCIDENTAL TO ITEM 60250 IN THIS CONTRACT.
9. SECTION 718 – CONTRACTOR IS REQUIRED TO PROVIDE TRAFFIC CONTROL INCLUDING CLOSURE DEVICES AND SIGNS. TRAFFIC CONTROL IS INCIDENTAL TO OTHER ITEMS IN THIS CONTRACT. A PLAN MUST BE PROVIDED TO THE CO PRIOR TO THE START OF WORK.
10. SECTION 303 – ROADWAY RECONDITIONING INCLUDES DITCH RECONDITIONING, SHOULDER RECONDITIONING, ROADBED RECONDITIONING, AND AGGREGATE SURFACE RECONDITIONING AND CLEANING INLET AND OUTLET OF EXISTING PIPES. REFER TO FSSS 303.
11. ACCESS ROAD TO PIT SHALL REQUIRE WATERING FOR DUST SUPPRESSION IF NEEDED.
12. ALL ROADS SHALL BE SCARIFIED TO THE BOTTOM OF POTHOLES AND CLOSED DEPRESSIONS WHEN THEY ARE PRESENT ON THE ROAD SURFACE DURING ROADWAY RECONDITIONING.

RECONSTRUCTION LOG

Sunday Creek 315

Harvey Creek 3791

| STATION OR MILE POST | PAY ITEM NUMBER | DESCRIPTION OF WORK | STATION OR MILE POST | PAY ITEM NUMBER | DESCRIPTION OF WORK |
|----------------------|-----------------|---|----------------------|-----------------|--|
| 0.00 | | Begin Project at National Forest Access Sunday Creek Sign | 0.00 | | Begin Project at Junction of 315 & 3791 |
| | 30322 | Begin Reconditioning | | 30322 | Begin Reconditioning |
| | 62501 | Seed all disturbed areas outside of traveled way | | 62501 | Seed all disturbed areas outside of traveled way |
| 1.61 | | Blue Lake Road (For Reference) | 0.10 | | Sunday Creek Bridge (For Reference) |
| 3.08 | | Sunday Lake (For Reference) | 1.00 | | MP 1 (For Reference) |
| 3.93 | | MP 4 (For Reference) | 1.05 | 60710 | Recondition Drainage Structure, Jack out inlet |
| 4.38 | 20419 | Install Drainage Excavation, Type Surface Water Deflector, 24 FT | 1.34 | 60708 | Reconditioning-Clean outlet of existing 18 in CMP and create positive drainage |
| 4.58 | 60250 | Replace existing 18" Corrugated Steel Pipe, 0.064" Thickness, (Includes culvert excavation), Type II Install, 30 FT | | 60708 | Place 1 CY of onsite rock around outlet |
| | 30801 | Haul & Place aggregate from Summit Pit, 3/4" minus Compaction Method 1, 10 CY | 1.39 | | 3735 Spur (For Reference) |
| 4.92 | | MP 5 (For Reference) | 1.39 | 60250 | Replace existing 18" Corrugated Steel Pipe, 0.064" Thickness, (Includes culvert excavation), Type II Install, 40 FT |
| 5.91 | | MP 6 (For Reference) | 1.75 | 60250 | Install 18" Corrugated Steel Pipe, 0.064" Thickness, (Includes culvert excavation), Type II Install, 26 FT (before Harvey Creek) |
| 6.76 | | Harvey Creek Rd 3791 (For Reference) | 2.00 | | MP 2 (For Reference) |
| | 30322 | End Reconditioning | 2.01 | 30322 | End Reconditioning |
| | | End Project | | | End Project |



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
 KOOTENAI NATIONAL FOREST
 FILE No.

KOOTENAI NATIONAL FOREST

CRASHED HARVEY TS

DESIGNED BY
 P BALTZ
 DRAWN BY
 P BALTZ
 CHECKED BY
 A NELSON

SHEET TITLE
**ROAD LOG
 315 & 3791**

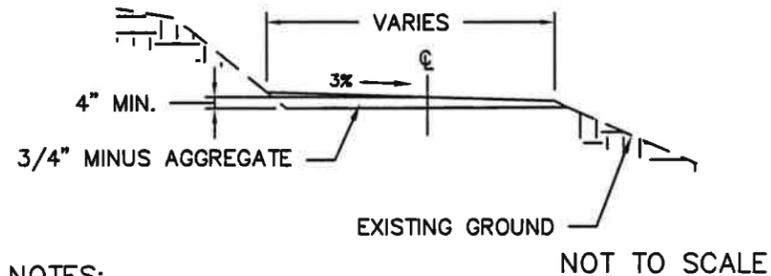
SHEET NO.
4 OF 8



| | |
|----------|-------|
| △ | _____ |
| △ | _____ |
| REVISION | |

RECONSTRUCTION DETAILS

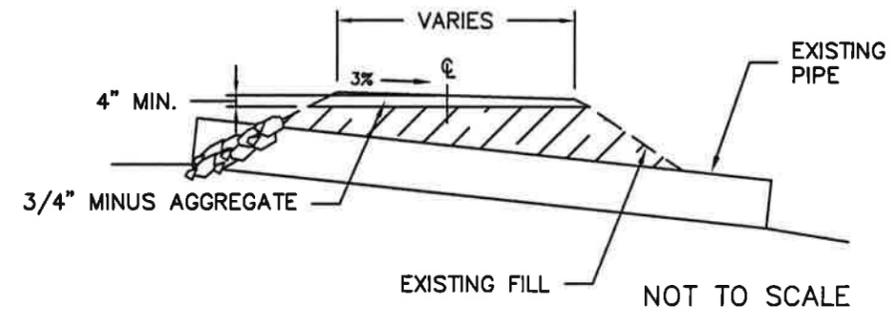
AGGREGATE PLACEMENT DETAIL
FOR SPOT PLACEMENT



NOTES:

1. 3/4" MINUS AGGREGATE WILL BE GOVERNMENT PROVIDED AND SHALL BE OBTAINED FROM THE SUMMIT CREEK PIT, RD. 1002.
2. THE AGGREGATE SHALL BE LAID DOWN IN A LIFT WITH A COMPACTED THICKNESS OF 4".
3. OPERATE MACHINERY OVER ENTIRE WIDTH OF EACH LIFT.
4. THE LENGTH OF PLACEMENT IS AS STAKED BY THE ENGINEERING REPRESENTATIVE.

AGGREGATE PLACEMENT DETAIL
FOR COVER OVER CULVERTS



NOTES:

1. 3/4" MINUS AGGREGATE WILL BE GOVERNMENT PROVIDED AND SHALL BE OBTAINED FROM THE SUMMIT CREEK PIT, RD. 4925.
2. THE AGGREGATE SHALL BE LAID DOWN IN A LIFT WITH A MINIMUM COMPACTED THICKNESS OF 4".
3. OPERATE MACHINERY OVER ENTIRE WIDTH OF EACH LIFT.
4. THE LENGTH OF PLACEMENT IS AS STAKED BY THE ENGINEERING REPRESENTATIVE.

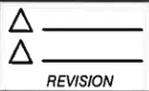
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
 KOOTENAI NATIONAL FOREST
 FILE NO.

KOOTENAI NATIONAL FOREST
 CRASHED HARVEY TS

DESIGNED BY
 P. BALTZ
 DRAWN BY
 P. BALTZ
 CHECKED BY
 A. NELSON

SHEET TITLE
AGGREGATE
PLACEMENT
DETAILS

SHEET NO.
5 OF 8



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
 KOOTENAI NATIONAL FOREST
 FILE No.

KOOTENAI NATIONAL FOREST
 CRASHED HARVEY TS

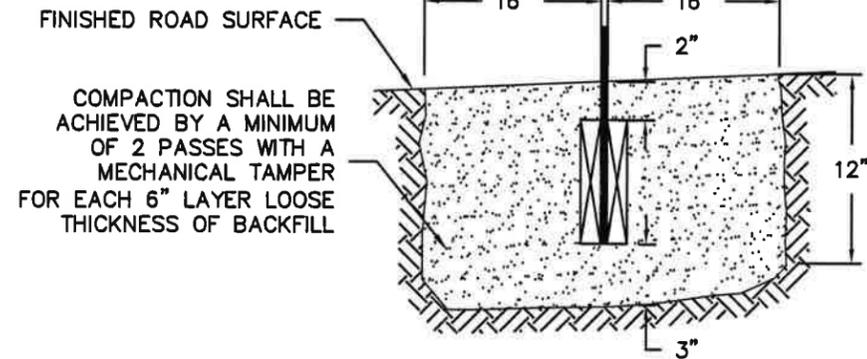
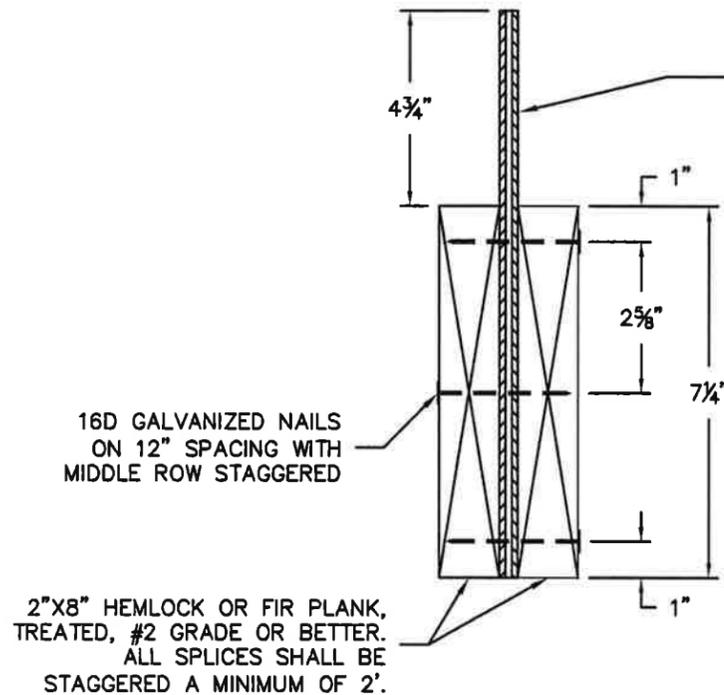
DESIGNED BY
 P. BALTZ
 DRAWN BY
 P. BALTZ
 CHECKED BY
 A. NELSON

SHEET TITLE
SWD DETAILS

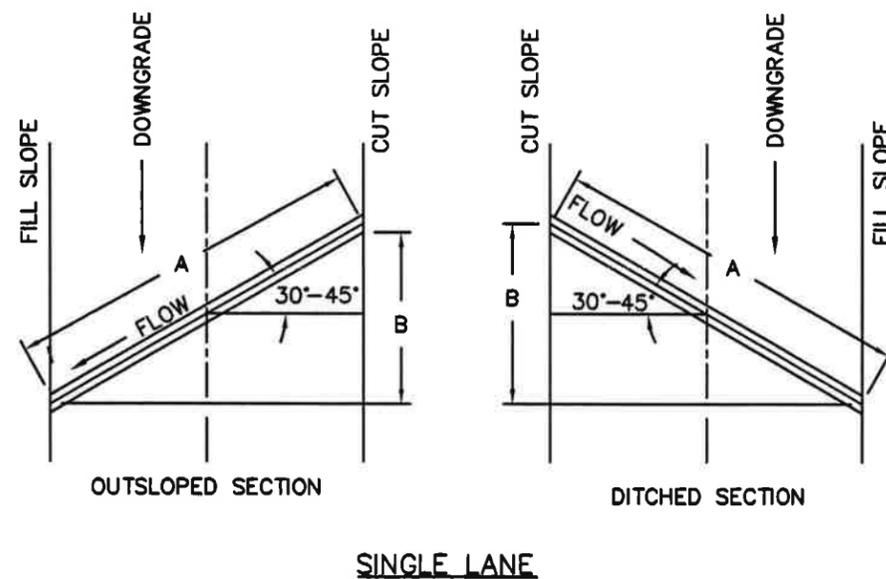
SHEET NO.
6 OF 8

SURFACE WATER DEFLECTOR DETAILS

12" GOODYEAR PLYLON PLUS 375 WITH A MINIMUM THICKNESS OF 7/16". OTHER COMMERCIAL BRANDS MAY BE USED BUT THE BELT THICKNESS SHALL BE EQUAL TO OR GREATER THAN 7/16" AND SHALL HAVE A PIW OF 375. THE PLYS SHALL BE MADE OF NYLON FOR BELT STIFFNESS. MATERIAL SHALL BE ONE CONTINUOUS LENGTH.



INSTALLATION DETAIL

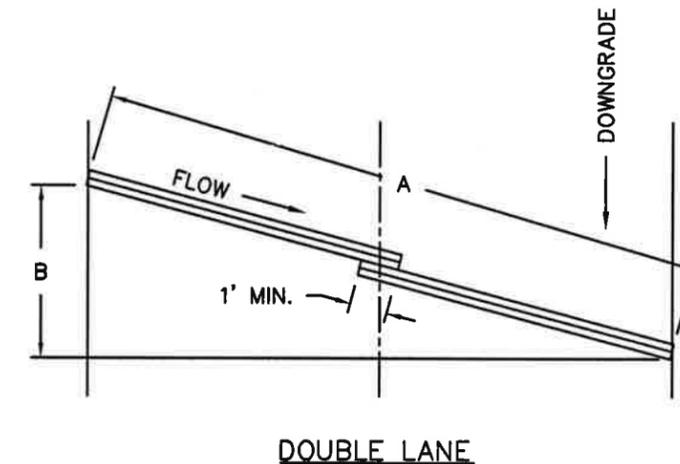


LENGTH OF SWD FOR SKEWED INSTALLATION (FEET)
 USE WHEN NOTED IN THE DRAINAGE LISTING

| ROAD WIDTH | A | B |
|------------|----|----|
| 12 | 17 | 12 |
| 13 | 18 | 13 |
| 14 | 20 | 14 |
| 15 | 21 | 15 |
| 16 | 23 | 16 |
| 17 | 24 | 17 |
| 18 | 25 | 18 |

NOTES

1. ALL TREATED LUMBER SHALL BE INCISED AND PRESSURE TREATED IN ACCORDANCE WITH THE AWPA UC4-A FOR GROUND CONTACT.
2. FIELD TREATMENT: ALL ABRASIONS AND CUTS MADE IN THE FIELD SHALL BE CAREFULLY TRIMMED AND GIVEN THREE BRUSH COATS OF THE TREATMENT SOLUTION. HOLES DRILLED IN THE FIELD SHALL BE POURED FULL OF PRESERVATIVE AND PLUGGED WITH TIGHT FITTING TREATED PLUGS.
3. ALL HARDWARE SHALL CONFORM TO FP-03 716.02 AND SHALL BE GALVANIZED. LUMBER SHALL CONFORM TO FP-03 716.03.
4. OUTLET OF DEFLECTOR SHALL BE A MINIMUM OF 0.5' LOWER THAN THE INLET.
5. CERTIFICATIONS: ONE COPY OF THE FOLLOWING COMPLIANCE CERTIFICATE SHALL BE FURNISHED UPON DELIVERY OF THE MATERIALS:
 - A. SUPPLIER CERTIFICATION THAT ALL WOOD MATERIALS MEET THE REQUIREMENTS AS TO SPECIES AND GRADE.
 - B. CERTIFICATION OF TREATMENT OF LUMBER TO INCLUDE TYPE OF PRESERVATIVE, RETENTION IN PCF (ASSAY METHOD) AND PENETRATION IN INCHES, BY A QUALIFIED INSPECTION AND TESTING AGENCY.
 - C. SUPPLIER CERTIFICATION THAT ALL RUBBER BELTING MATERIALS MEET THE REQUIREMENTS AS NOTED IN DETAIL.
6. SKEW SHALL BE A 30° MINIMUM AND 45° MAXIMUM UNLESS OTHERWISE INDICATED. LENGTH AS INDICATED IN DRAINAGE LISTING.



DRAWINGS NOT TO SCALE

RECONDITIONING LIMITS CROSS SECTIONS



△
△
REVISION

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
KOOTENAI NATIONAL FOREST
FILE No.

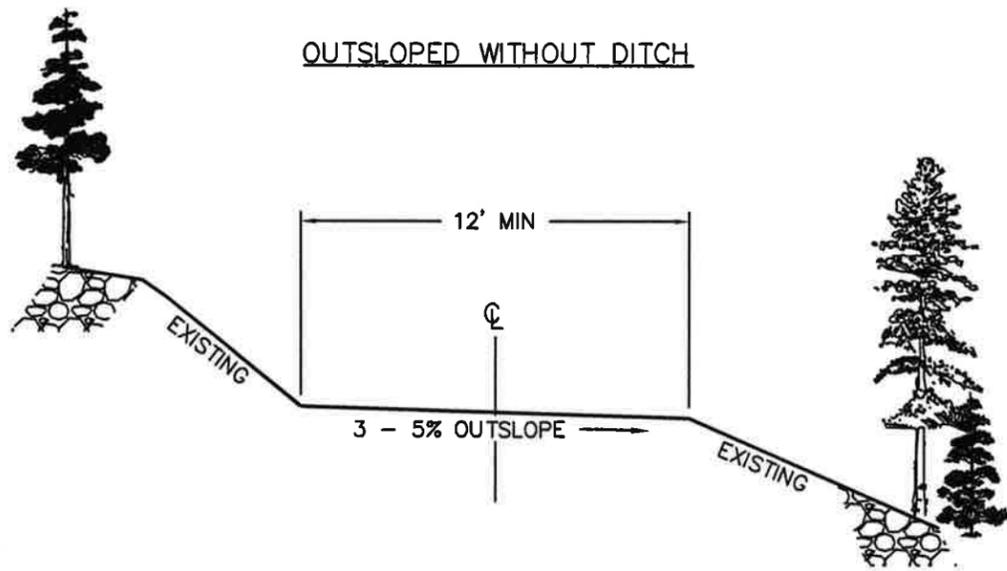
KOOTENAI NATIONAL FOREST
CRASHED HARVEY TS

DESIGNED BY
P. BALTZ
DRAWN BY
P. BALTZ
CHECKED BY
A. NELSON

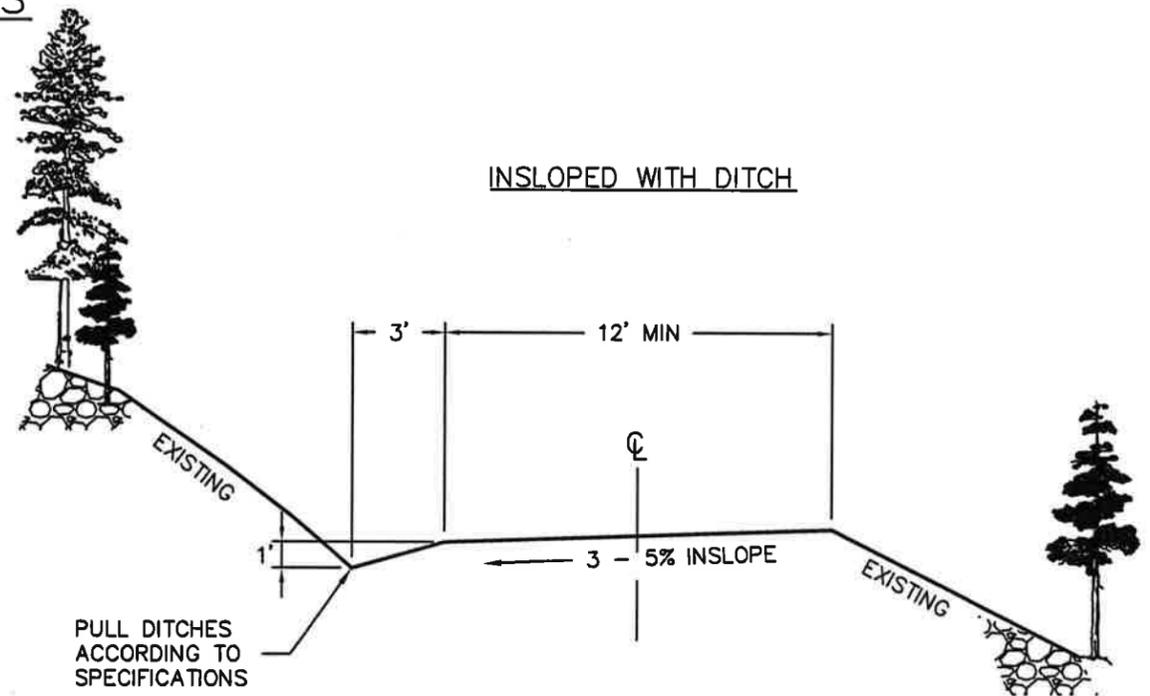
SHEET TITLE
**RECONDITIONING
DETAILS**

SHEET NO.
7 OF 8

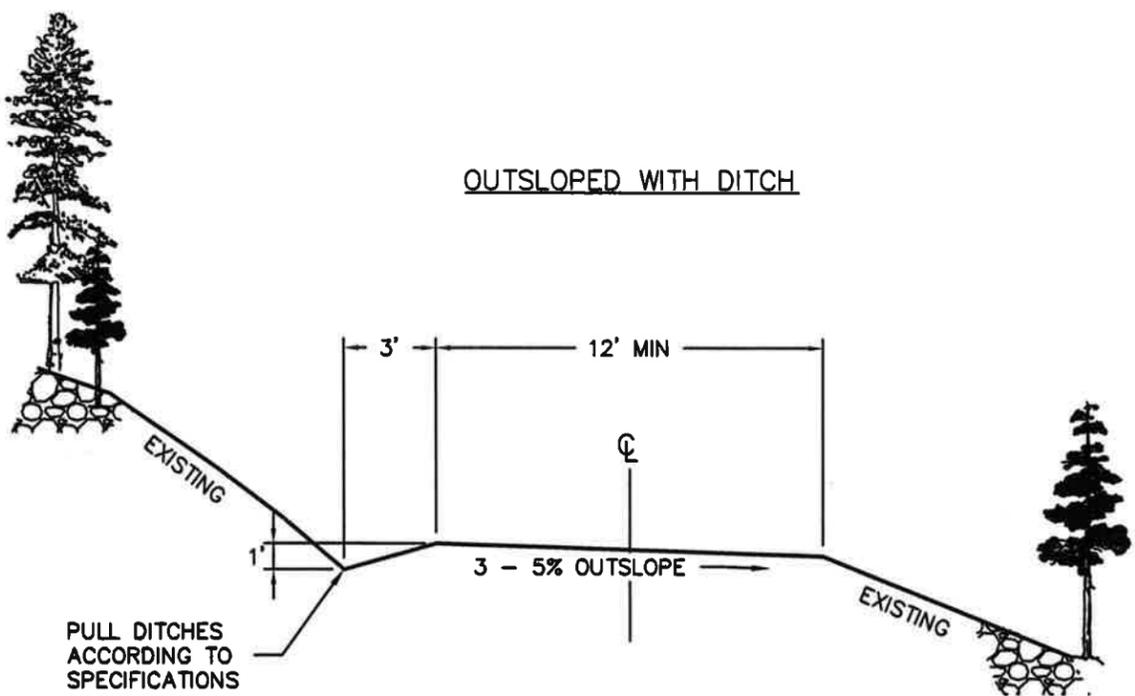
OUTSLOPED WITHOUT DITCH



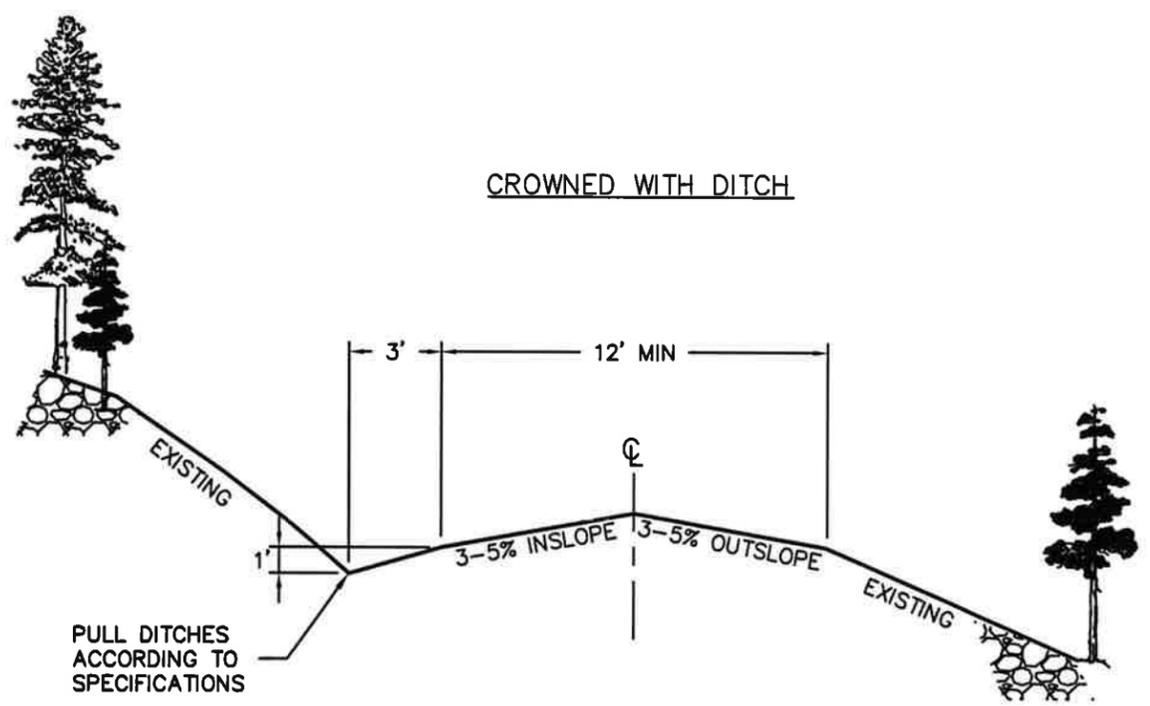
INSLOPED WITH DITCH



OUTSLOPED WITH DITCH



CROWNED WITH DITCH



DRAWINGS NOT TO SCALE



| | |
|---|----------|
| △ | |
| △ | REVISION |

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
 KOOTENAI NATIONAL FOREST
 FILE NO.

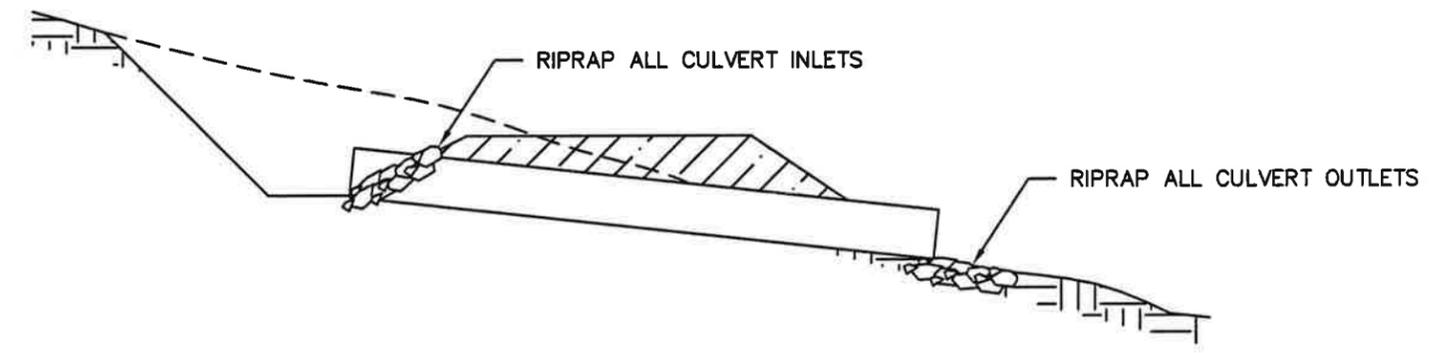
KOOTENAI NATIONAL FOREST
 CRASHED HARVEY TS

DESIGNED BY
P. BALTZ
 DRAWN BY
P. BALTZ
 CHECKED BY
A. NELSON

SHEET TITLE
**CULVERT TYPE II
 INSTALLATION**

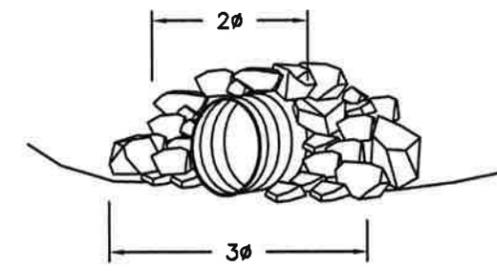
SHEET NO.
8 OF 8

TYPE II CULVERT INSTALLATION WITH REINFORCEMENT



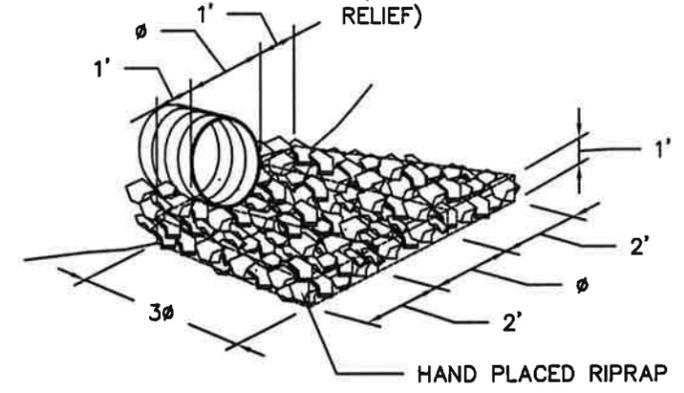
INLET RIPRAP INSTALLATION

INLET RIPRAP PLACEMENT INCIDENTAL TO
PAY ITEM 60250

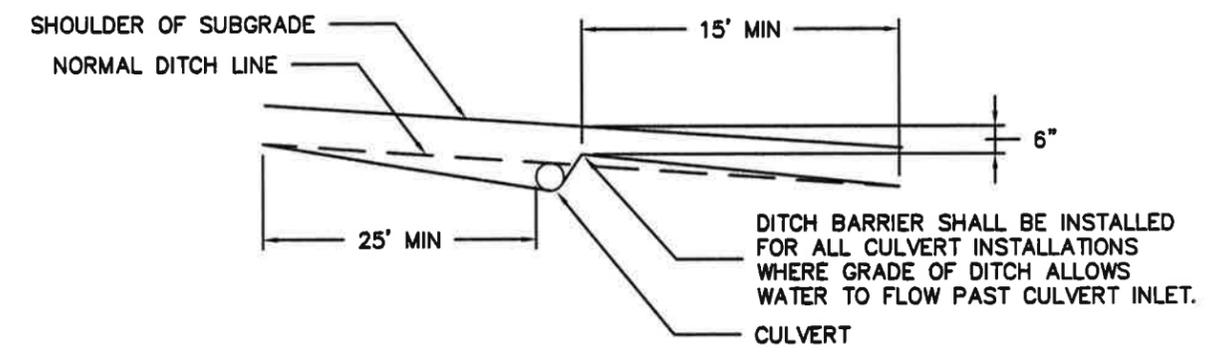


OUTLET RIPRAP INSTALLATION

OUTLET RIPRAP PLACEMENT INCIDENTAL TO PAY ITEM 60250 IF
SPECIFIED IN THE PLANS. (THIS DETAIL ONLY FOR DITCH
RELIEF)



DITCH BLOCK DETAIL



DRAWINGS NOT TO SCALE