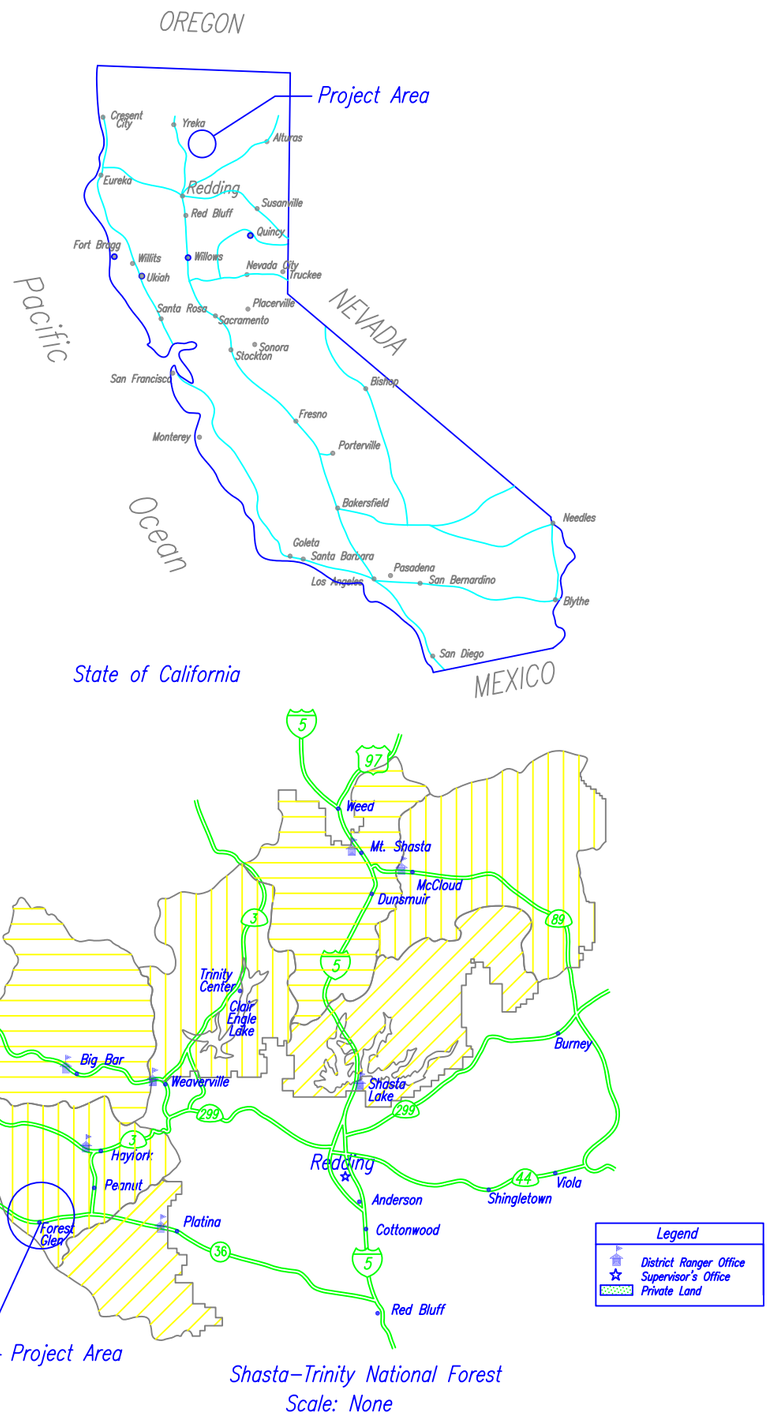
UNITED STATES DEPARTMENT OF AGRICULTURE
REGION FIVE
FOREST SERVICE

WESTSIDE PLANTATION STEWARDSHIP
Shasta-Trinity National Forest



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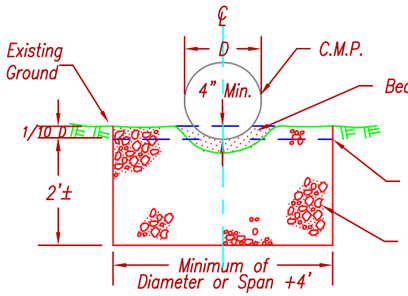
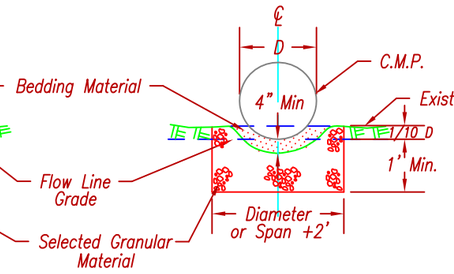
1	TITLE SHEET
2	TYPICAL CULVERT INSTALLATION
3	TYPICAL BRUSHING SECTION
4	TYPICAL CRITICAL DIP
5	TYPICAL ROLLING DIP

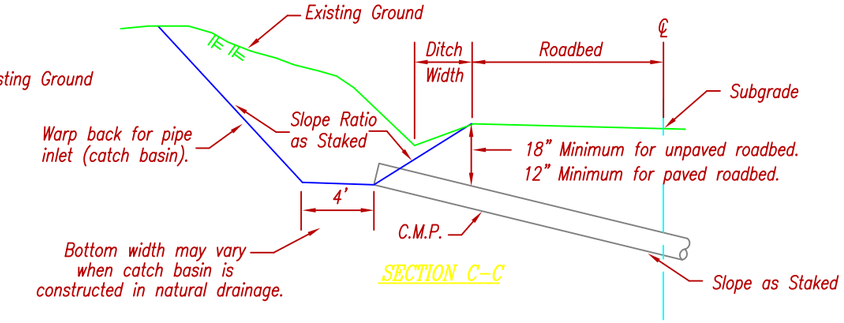
Drawn By:	Designed By:	Recommended By:		Approved By:		
G.RAND	G.RAND	Construction Engineer	Date	Forest Engineer	Date	HAYFORK RANGER DISTRICT WESTSIDE PLANTATION STEWARDSHIP
		District Ranger	Date	Forest Supervisor	Date	SHEET 1 of 5



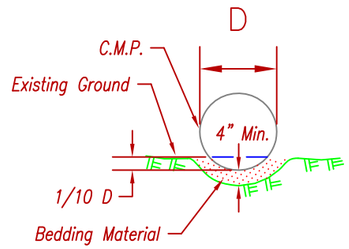
UNSTABLE FOUNDATION



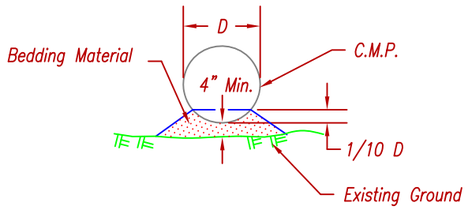
ROCK FOUNDATION



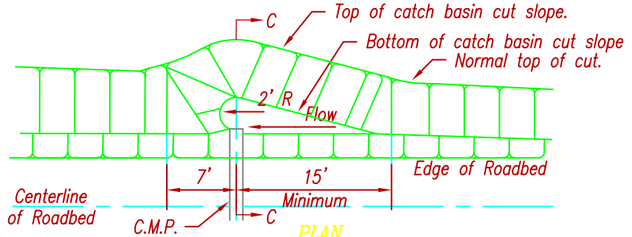
SECTION C-C



SECTION A-A

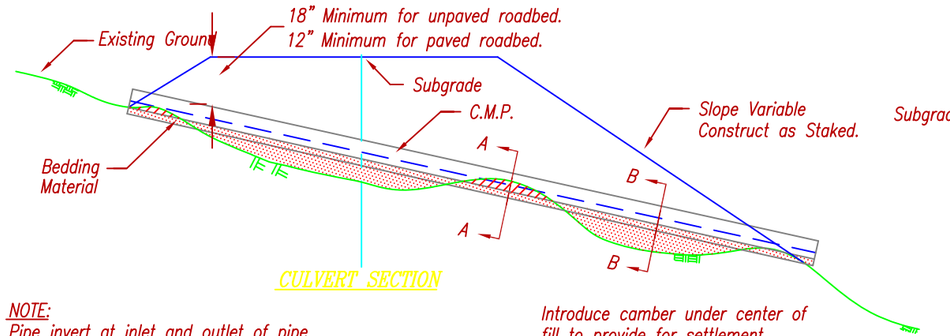


SECTION B-B



PLAN

EARTH CATCH BASIN DETAILS

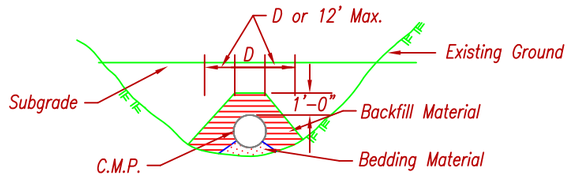


CULVERT SECTION

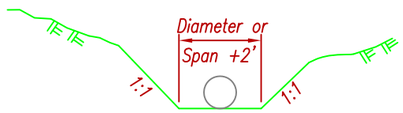
NOTE:
Pipe invert at inlet and outlet of pipe shall be at stream grade, unless designated otherwise. Install inlet and outlet protection when specified.

Introduce camber under center of fill to provide for settlement. Minimum camber 1% of pipe length.

TYPICAL BEDDING AND EXCAVATION DETAILS



METHOD OF BACKFILLING PIPE



CULVERT OUTLET DITCH DETAILS

USDA FOREST SERVICE

PACIFIC SOUTHWEST REGION R5

NO.	DATE	REVISIONS

FOREST: SHASTA-TRINITY NATIONAL FOREST

PROJECT NAME: Westside Plantation Stewardship

DRAWING NAME: TYPICAL CULVERT INSTALLATION RECONSTRUCTION

MANAGEMENT UNIT

Hayfork Ranger District
P.O. Box 159
Hayfork, CA 96041
530.628.5227
A/E

PROJECT NUMBER

DESIGNED BY G.RAND

DRAWN BY G. RAND

CHECKED BY T Moxness

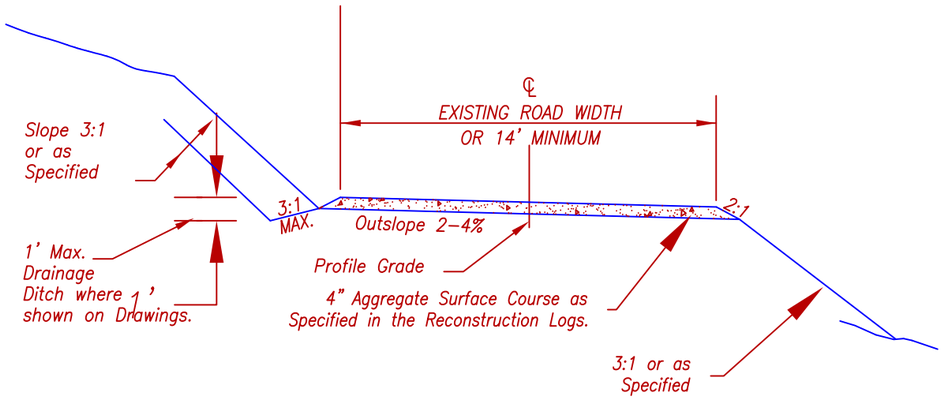
CHECKED BY

DATE June 2015

SCALE AS SHOWN

DRAWING

SHEET 2 OF 5



TYPICAL SECTION

GENERAL NOTES

1. Road width shown on drawings are to subgrade and include, when applicable, curve widening, fill widening, and berm.

2. Reconstruct roadbed to existing road widths.

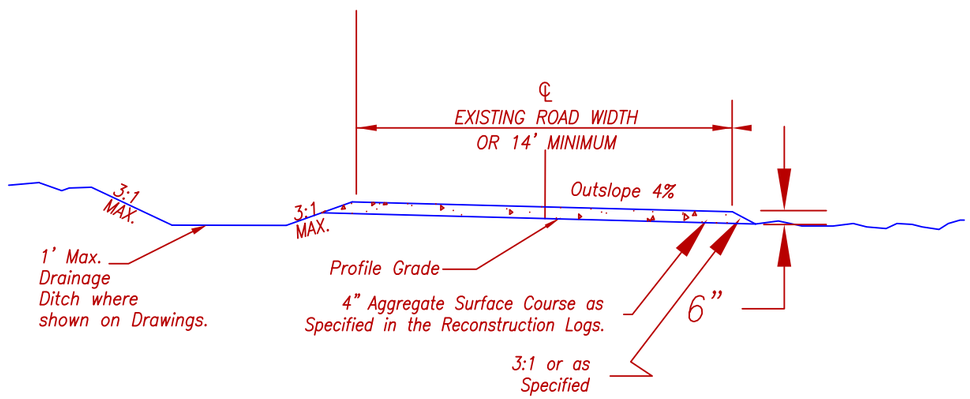
3. Roadbed shall be 2–4% Outsloped unless otherwise shown on the drawings. Percent slope shall be the same regardless of direction. Roadbed in ditched sections to be maintained to existing inslope.

4. Decking Areas as designated by the Government may be used for both merchantable and unmerchantable logs. Merchantable logs shall be piled separately.

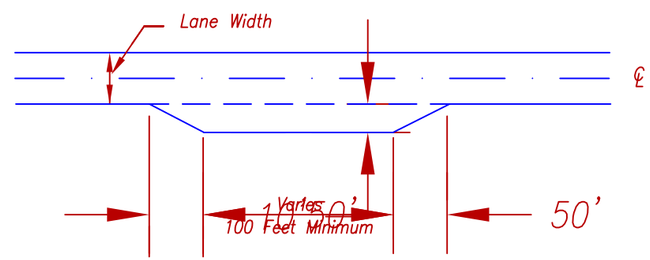
5. Disposal shall be at the Toe of Fill Slope.

6. Clearing Limits at all Culvert Sites shall be a Minimum of 10' Upstream at Inlet, 10' Downstream at Outlet and a Minimum Width of 5' each side of Culvert.

7. Aggregate Surface Course Placement applies to Placement of Spot Rocking as specified in the Reconstruction Logs.



TYPICAL TURNPIKE SECTION



TURNOUT DETAIL

USDA FOREST SERVICE

PACIFIC SOUTHWEST REGION R5

NO.	DATE	REVISIONS

FOREST: SHASTA-TRINITY NATIONAL FOREST

PROJECT NAME: Westside Plantation Stewardship

DRAWING NAME: TYPICAL BRUSHING SECTION RECONSTRUCTION

MANAGEMENT UNIT

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CHECKED BY

DATE
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SCALE
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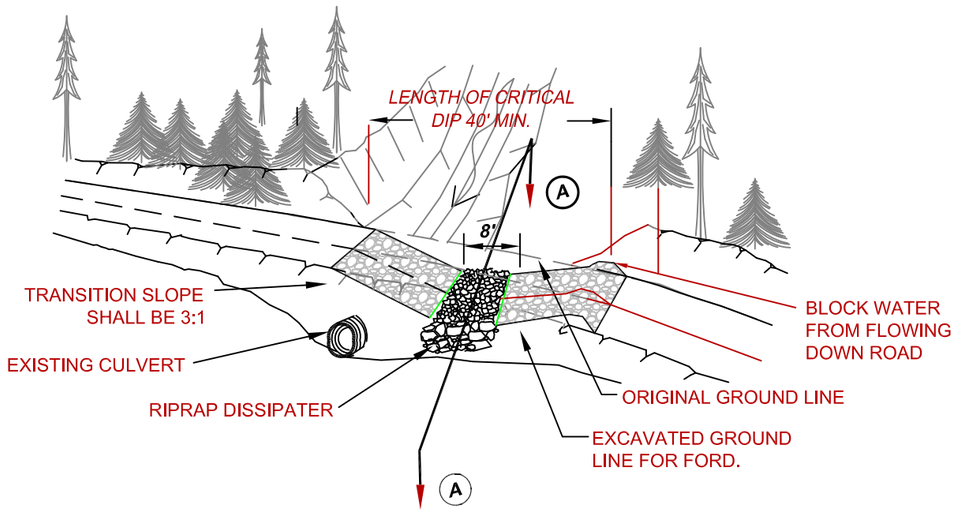
SHEET 3
OF 5



TYPICAL ISOMETRIC VIEW

GENERAL NOTES

1. CRITICAL DIP SHALL BEGIN AT THE LOCATION WHERE CULVERT WOULD OVERFLOW IF PLUGGED. BEGINNING OF DIP SHALL BE AT STAKED LOCATION.

2. SPILLWAY WIDTH SHALL HAVE A MINIMUM OUTSLOPE OF 2%.

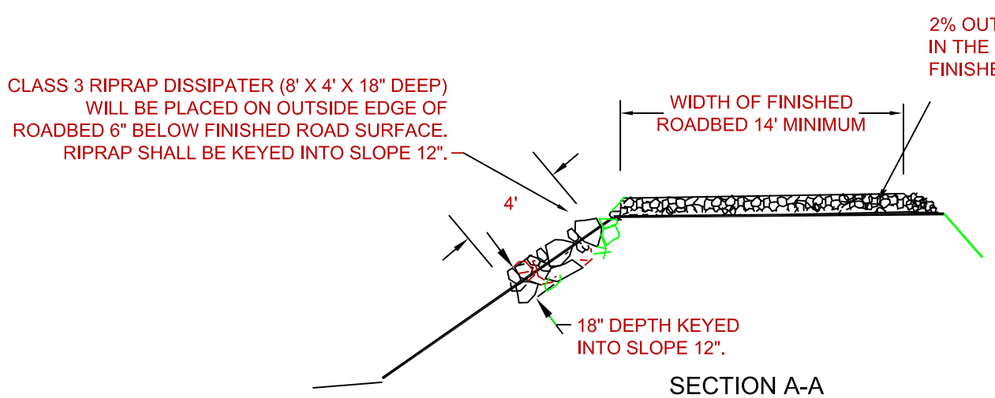
3. MATERIAL EXCAVATED TO CONSTRUCT CRITICAL DIP SHALL BE PLACED ON ROADBED ON DOWNHILL SIDE OF OVERFLOW AND COMPACTED IN ACCORDANCE WITH SECTION 204, COMPACTION E (ROLLER COMPACTION). AGGREGATE SURFACING SHALL BE ROLLER COMPACTED WITH WATER.

4. **PAYMENT** IS FOR A COMPLETE DIP INCLUDING - EARTHWORK, AGGREGATE AND RIPRAP. SURFACING SHALL BE ROLLER COMPACTED WITH WATER

MATERIAL LIST

QUANTITIES ARE APPROXIMATE

3-INCH MINUS- 25 TONS
CLASS 3 RIPRAP - 3 TONS



SECTION A-A

USDA FOREST SERVICE
PACIFIC SOUTHWEST REGION R5

NO.	DATE	REVISIONS

FOREST: SHASTA-TRINITY NATIONAL FOREST
PROJECT NAME: Westside Plantation Stewardship
DRAWING NAME: TYPICAL CRITICAL DIP RECONSTRUCTION

MANAGEMENT UNIT
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June 2015

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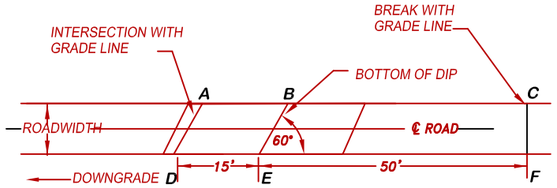
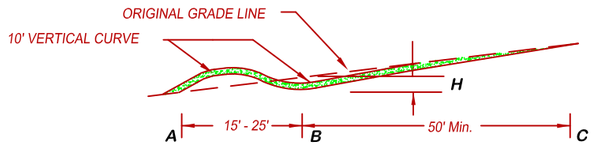
DRAWING

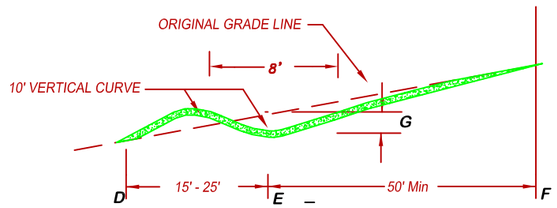
SHEET 4
OF 5



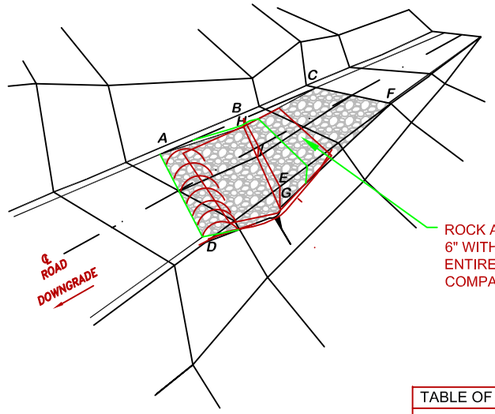
PLAN OF ROLLING DIP



ROAD PROFILE ALONG A-B-C OF ROLLING DIP



ROAD PROFILE ALONG D-E-F OF ROLLING DIP



ROCK ALL DIPS TO A DEPTH OF 6" WITH AGGREGATE FOR ENTIRE LENGTH OF DIP AND COMPACT.

PERSPECTIVE VIEW

TABLE OF DRAIN DIP DIMENSIONS		
% GRADE OF ROAD	SINGLE LANE DEPTH	
	G	H
6% AND UNDER	1.0'	0.5'
7% AND UNDER 10%	1.5'	0.5'
10% AND UNDER 13%	2.0'	0.5'

GENERAL NOTES

1. SUBGRADE OF DIPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 204, COMPACTION E, (ROLLER COMPACTION). ALL DIPS SHALL BE ROCKED WITH 6" AGGREGATE AND ROLLER COMPACTED WITH WATER.

2. PAYMENT OF DIP EXCAVATION, HAUL AND PLACEMENT OF AGGREGATE SURFACE IS INLCLUDED IN PAY ITEM 204 ROLLING DIP. AGGREGATE SURFACING IS ESTIMATED TO BE 35 TONS PER DIP.

USDA FOREST SERVICE

PACIFIC SOUTHWEST REGION R5

NO.	DATE	REVISIONS

FOREST: SHASTA-TRINITY NATIONAL FOREST

PROJECT NAME: Westside Plantation Stewardship

DRAWING NAME: TYPICAL ROLLING DIP RECONSTRUCTION

MANAGEMENT UNIT

Hayfork Ranger Dlstrlct
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OF 5