



UNITED STATES DEPARTMENT OF AGRICULTURE FOREST SERVICE

PACIFIC NORTHWEST REGION
ROGUE RIVER-SISKIYOU NATIONAL FOREST

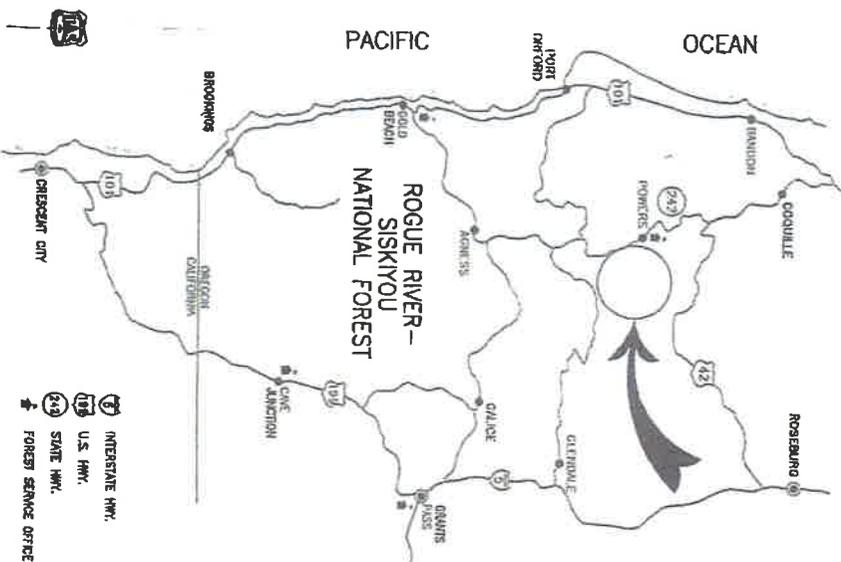
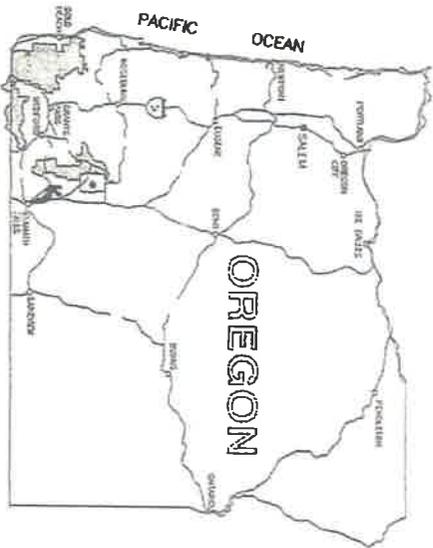
POWERS RANGER DISTRICT

COUNTY: COOS

PLANS FOR PROPOSED

COAL CAMP TIMBER SALE

DESIGNED BY:	<i>Michael...</i>	Date	
PROJECT DESIGNER			
REVIEWED BY:	<i>David D. S. ...</i>	Date	<i>12/18/2015</i>
REVIEWER			
RECOMMENDED BY:	<i>Chuck ...</i>	Date	<i>12/21/15</i>
ASSISTANT FOREST ENGINEER			
APPROVED BY:	<i>Greg ...</i>	Date	<i>12-22-15</i>
REHLM STAFF OFFICER			
APPROVED BY:	<i>Karla ...</i>	Date	<i>12-22-15</i>
DISTRICT RANGER			
APPROVED BY:	<i>[Signature]</i>	Date	<i>11/11/15</i>
FOREST SUPERVISOR			



PROJECT LOCATION MAP
Not to Scale

- INTERSTATE HWY.
- U.S. HWY.
- STATE HWY.
- FOREST SERVICE OFFICE

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest: ROGUE RIVER-SISKIYOU
NATIONAL FOREST
District: POWERS RANGER DISTRICT

Design: L. COOKME
Drawn: D. SAMSON
Checked: D. TULFEE
Date: 11/2015

Sheet Title:

COVER SHEET

COAL CAMP TIMBER SALE

Project No:

Sheet 1 of 34

Acting



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest:
**ROGUE RIVER-SISKIYOU
NATIONAL FOREST**
District:
POWERS RANGER DISTRICT

Design: L. COOMBE
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Date: 11/2015

Sheet Title:
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COAL CAMP TIMBER SALE

Project No:
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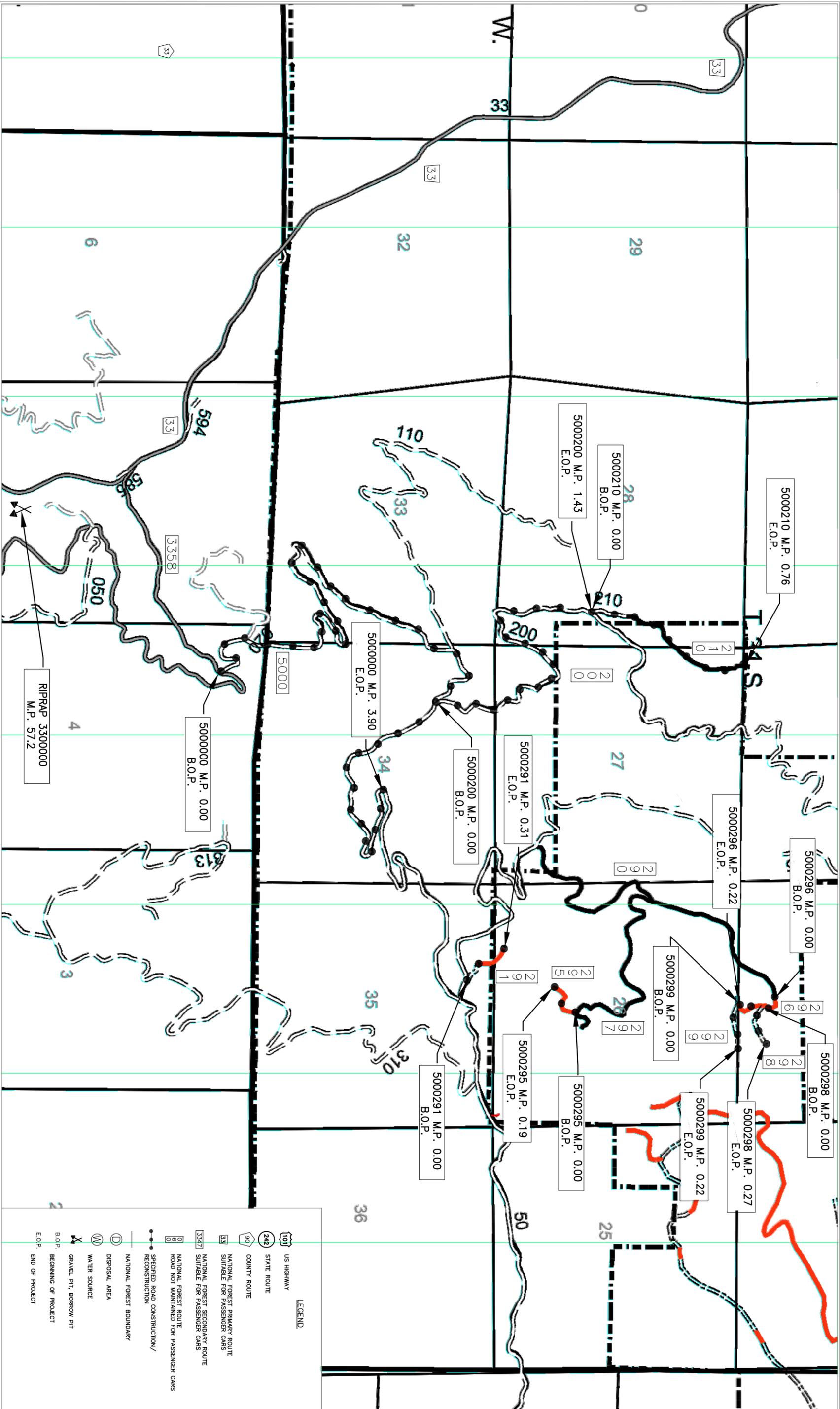
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Sheet Title:
VICINITY MAP
COAL CAMP TIMBER SALE

Project No:
Sheet 3 OF 34



PAY ITEM NUMBER	PAY ITEM DESCRIPTION	PAY UNIT	NOTES
15101	MOBILIZATION	LUMP SUM	INDIRECT PAYMENT FOR TRAFFIC CONTROL AND EQUIPMENT WASHING. ALLOW 5 DAYS AFTER REQUEST HAS BEEN MADE TO SCHEDULE EQUIPMENT INSPECTIONS.
15211	CONSTRUCTION SURVEY AND STAKING, METHOD 2, TOLERANCE C	MILE	RESPONSIBLE FOR PROTECTION OF ALL STAKES
20105	CLEARING AND GRUBBING, DISPOSAL OF TOPS AND LIMBS (f), LOGS (i), STUMPS (f)	LUMP SUM	f-SCATTER, i-DECK, f-SCATTER (FSSS 203.05), CLEARED TOPS AND LIMBS MAY BE PLACED ON FINISHED SLOPES AS EROSION CONTROL... SPREAD TO REDUCE SLASH CONCENTRATIONS
20301	REMOVAL OF CULVERT, DISPOSAL METHOD A	EACH	LEGALLY DISPOSE OFF GOVERNMENT LAND
20310	CUTTING AND REMOVAL OF CULVERT, DISPOSAL METHOD A	EACH	INDIRECT PAYMENT FOR CUTTING AND PLUGGING OF CULVERT END, LEGALLY DISPOSE OFF GOVERNMENT LAND
20401	ROADWAY EXCAVATION, COMPACTION METHOD B, FINISHING METHOD A	* CUBIC YARD	IN PLACE QUANTITIES. INCLUDES TURNOUTS, TAPERS, CURVE WIDENING, AND TURNAROUNDS
20404	UNCLASSIFIED BORROW, COMPACTION METHOD B, (GOVERNMENT SOURCE)	* CUBIC YARD	QUANTITY IS COMPACTED IN PLACE, MATERIAL IS SUITABLE STOCKPILE WASTE FROM CONSTRUCTION OF FSR 5000291 OR OTHER FOREST SERVICE DESIGNATED SITES
20701	EARTHWORK GEOTEXTILE, TYPE IV-C	* SQUARE YARD	
25104A	KEYED RIPRAP, CLASS 1 (6" TO 8" MAX. SIZE), COMMERCIAL SOURCE	* CUBIC YARD	INDIRECT PAYMENT FOR EXCAVATION
25104B	KEYED RIPRAP, CLASS 3 (14" TO 16" MAX. SIZE), COMMERCIAL SOURCE	* CUBIC YARD	INDIRECT PAYMENT FOR EXCAVATION
25104C	KEYED RIPRAP, CLASS 3 (14" TO 16" MAX. SIZE), GOVERNMENT SOURCE	* CUBIC YARD	INDIRECT PAYMENT FOR EXCAVATION, GOVERNMENT SOURCE LOCATED ON FSR 3500000 MP 57.2
303222	ROAD RECONDITIONING, COMPACTION METHOD B	MILE	DITCH NOT INCLUDED, ROADBED ONLY ON FSR 5000298 AND 5000299. DITCH, ROADBED, AND SCARIFICATION ON FSR 5000210
30801	ROADWAY AGGREGATE, COMPACTION METHOD 2	* CUBIC YARD	COMMERCIAL SOURCE, QUANTITY IS COMPACTED IN PLACE
32111	AGGREGATE SURFACE COURSE, GRADING XX, COMPACTION METHOD B	* CUBIC YARD	COMMERCIAL SOURCE, QUANTITY IS COMPACTED IN PLACE

* CONTRACT QUANTITIES



U.S. DEPARTMENT OF AGRICULTURE
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NATIONAL FOREST**
District:
POWERS RANGER DISTRICT

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Date: 11/2015

Sheet Title:
**PAY ITEM GENERAL NOTES
SHEET 1**
COAL CAMP TIMBER SALE

Project No:
Sheet **5** OF **34**

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	PAY UNIT	NOTES
60201A	18-INCH PIPE CULVERT, ALUMINIZED CORRUGATED STEEL PIPE, 16 GAGE, COMPACTION METHOD B	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING, 0'-5' DEEP @ ROADWAY CENTERLINE
60201B	24-INCH ALUMINIZED CORRUGATED STEEL PIPE, 16 GAGE, COMPACTION METHOD B, 0-5' DEEP @ ROADWAY CENTERLINE	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING
60201C	24-INCH ALUMINIZED CORRUGATED STEEL PIPE, 16 GAGE, COMPACTION METHOD B, 5'-10' DEEP @ ROADWAY CENTERLINE	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING
60201D	24-INCH ALUMINIZED CORRUGATED STEEL PIPE, 16 GAGE, COMPACTION METHOD B, 10'-20' DEEP @ ROADWAY CENTERLINE	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING
60201E	42-INCH ALUMINIZED CORRUGATED STEEL PIPE, 14 GAGE, COMPACTION METHOD B	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING
60208	END SECTION, 24-INCH ROUND CULVERT, FLARED INLET WITH TOE PLATE	ECH	INDIRECT PAYMENT FOR BAND AND HARDWARE
60601A	SPILLWAY ASSEMBLY, 24-INCH, 12' LENGTH	EACH	16 GAGE, HARDWARE IS INCIDENTAL, 12' LENGTH
60601B	SPILLWAY ASSEMBLY, 24-INCH, 20' LENGTH	EACH	16 GAGE, HARDWARE IS INCIDENTAL, 20' LENGTH
60603	24-INCH PIPE ANCHOR ASSEMBLY	EACH	INDIRECT PAYMENT FOR HARDWARE AND CABLE
62530	SEEDING AND MULCHING, DRY METHOD	LSQ	GOVERNMENT PROVIDED SEED, ALLOW 7 DAY DELIVERY AFTER REQUEST IS MADE, CERTIFIED WEED FREE MULCH. COVER ALL DISTURBED AREAS
65002	INSTALL ROAD CLOSURE DEVICE, TYPE EARTHEN BARRIER	EACH	ROAD 5000291 AT MP 0.10, 5000295 AND 5000296 AT MP 0.00 SHALL HAVE AN EARTHEN BARRIER CONSTRUCTED UPON APPROVAL AND COMPLETION OF CONSTRUCTION. CONSTRUCT EARTHEN BARRIER AS STAKED BY THE FOREST SERVICE. UTILIZE LOGS, BOULDERS AND DIRT MATERIAL ONSITE TO CONSTRUCT EARTHEN BARRIER.

* CONTRACT QUANTITIES



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest:
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NATIONAL FOREST**
District:
POWERS RANGER DISTRICT

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Sheet Title:
**PAY ITEM GENERAL NOTES
SHEET 2**
COAL CAMP TIMBER SALE

Project No:
Sheet **6** OF **34**



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest:
District:

ROGUE RIVER-SISKIYOU
NATIONAL FOREST
POWERS RANGER DISTRICT

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Date:

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D. TULEE
11/2015

Sheet Title:

FSR 5000200
WORK LIST & QUANTITIES
COAL CAMP TIMBER SALE

Project No:

Sheet **9** OF **34**

COAL CAMP TIMBER SALE

WORK LIST & QUANTITIES

Mile Post/ Station		Item Number:	Unit of Measure:	Contract Quantity	Description of Work																				
		FP-03 Pay Items																							
Begin	End	15101	LSQ		Mobilization																				
		15211	Mile		Construction survey and staking, method 2, tolerance C																				
		20105	LSQ		Clearing and grubbing, disposal of tops and limbs (f), logs (i), stumps (f)																				
		20301	Each		Removal of culvert, disposal method A																				
		20310	Each		Cutting and removal of culvert, disposal method A																				
		20401	CY	*	Roadway excavation, compaction method B, finishing method A																				
		20404	CY	*	Unclassified borrow, compaction method B, (government source)																				
		20701	SY	*	Earthwork geotextile, Type IV-C																				
		25104a	CY	*	Keyed Riprap, Class 1 (6" to 8" max. size), commercial source																				
		25104b	CY	*	Keyed Riprap, Class 3 (14" to 16" max. size), commercial source																				
		25104c	CY	*	Keyed Riprap, Class 3 (14" to 16" max. size), government source																				
		30322	Mile		Road reconditioning, compaction method B																				
		30801	CY	*	Roadway aggregate, compaction method 2																				
		32111	CY	*	Aggregate surface course, grading XX, compaction method B																				
		60201a	FT		18-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B																				
		60201b	FT		24-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B, 0-5' deep @ road centerline																				
		60201c	FT		24-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B, 5-10' deep @ road centerline																				
		60201d	FT		24-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B, 10'-20' deep @ road centerline																				
		60201e	FT		42-inch pipe culvert, aluminized-corrugated steel pipe, 14 gage, compaction method B																				
		60208	Each		End section, 24-inch round culvert, flared inlet with toe plate																				
		60601a	Each		24-inch Spillway assembly, 12' length																				
		60601b	Each		24-inch Spillway assembly, 20' length																				
		60603	Each		24-inch Pipe anchor assembly																				
		62530	LSQ		Seeding and mulching, dry method																				
		65002	Each		Install road closure device, type earthen barrier																				
		FSR 5000200																							
		Beginning of Project																							
0.00		All																							
0.41		Existing 42" x 40' culvert, replace with 42" x 40' CMP																							
		Existing 18" x 54' culvert, replace with 24" x 44' CMP with 12' downdrain, install at 8% grade, cut and plug existing culvert, place riprap in scour hole at outlet, see sheet 'deep culverts'																							
0.82		All																							
0.98		Existing 18" x 42' culvert, replace with 24" x 42' CMP.																							
1.42		Spur to left																							
		End Of Project																							
1.43		All																							
		TOTAL FOR ROAD																							
		All	0.00	All	2	1	0	0	8	0	0	2	0.00	15	0	0	42	44	40	1	1	0	2	All	0

COAL CAMP TIMBER SALE

WORK LIST & QUANTITIES

FP-03 Pay Items

Mile Post/ Station	Item Number: Unit of Measure: Contract Quantity	Description of Work																										
		15101 LSQ	15211 Mile	20105 LSQ	20301 Each	20310 Each	20401 CY *	20404 CY *	20701 SY *	25104a CY *	25104b CY *	25104c CY *	30322 Mile	30801 CY *	32111 CY *	60201a FT	60201b FT	60201c FT	60201d FT	60201e FT	60208 Each	60601a Each	60601b Each	60603 Each	62530 LSQ	65002 Each		
		Beginning of Project																										
0.00		All																										
0.12																												
0.20				All			1				20																	
0.25				All			1																					
0.33																												
0.34	0.76																											
0.34	0.65											0.35																
0.56	0.65																127											
0.65	0.67		All							23																		
	0.76																											
TOTAL FOR ROAD		All	0.00	All	2	0	23	20	81	23	0	12	0.35	5	139	0	32	36	0	0	0	0	0	0	1	2	All	0



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest:
**ROGUE RIVER-SISKIYOU
NATIONAL FOREST**
District:
POWERS RANGER DISTRICT

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Sheet Title:
**FSR 5000210
WORK LIST & QUANTITIES**
COAL CAMP TIMBER SALE

Project No:
Sheet **10** OF **34**

COAL CAMP TIMBER SALE

WORK LIST & QUANTITIES

Mile Post/Station		Item Number:	Unit of Measure:	Contract Quantity	Description of Work																													
Begin	End	FSR 5000298																																
0.00		15101	LSQ		Beginning of Project, junction with FSR 5000296.																													
0.00	0.27	15211	Mile		Stakes are set ~7' from road centerline, clear vegetation and shape road surface to minimum width, see sheet 'Clearing and Grubbing Typical'. Protect all flagged areas. FS archeologist must be on site.																													
0+00	2+60	20105	LSQ		Road alignment along center of existing road grade, do not disturb cut banks																													
2+60	3+63	20301	Each		Road alignment along right side (edge of fill slope) of existing road grade																													
3+63	6+28	20310	Each		Road alignment along right side (edge of cut bank) of existing road grade, do not disturb cut bank																													
6+28	7+00	20401	CY	*	Flagged area to protect, move road alignment to left side of flagged area, do not disturb flagged area																													
7+00	7+64	20404	CY	*	Move road alignment to left side (edge of cut bank) of existing road grade, do not disturb cut bank																													
7+64	10+47	20701	SY	*	Road alignment along left side (edge of cut bank) of existing road grade, do not disturb cut bank and flagged area along left and right sides																													
10+47	11+21	25104a	CY	*	Road alignment along right side (edge of fill slope) of existing road grade																													
11+21	12+44	25104b	CY	*	Move road alignment to right side (edge of fill slope) of existing road grade																													
12+44	14+39	25104c	CY	*	Road alignment along right side (edge of fill slope) of existing road grade																													
	0.27	30322	Mile		Road alignment along right side (edge of cut bank) of existing road grade, do not disturb cut bank																													
TOTAL FOR ROAD					All	0.00	All	0	0	0	0	0	0	0	0	0	0	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FP-03 Pay Items

15101	LSQ	Mobilization
15211	Mile	Construction survey and staking, method 2, tolerance C
20105	LSQ	Clearing and grubbing, disposal of tops and limbs (f), logs (i), stumps (f)
20301	Each	Removal of culvert, disposal method A
20310	Each	Cutting and removal of culvert, disposal method A
20401	CY	Roadway excavation, compaction method B, finishing method A
20404	CY	Unclassified borrow, compaction method B, (government source)
20701	SY	Earthwork geotextile, Type IV-C
25104a	CY	Keyed Riprap, Class 1 (6" to 8" max. size), commercial source
25104b	CY	Keyed Riprap, Class 3 (14" to 16" max. size), commercial source
25104c	CY	Keyed Riprap, Class 3 (14" to 16" max. size), government source
30322	Mile	Road reconditioning, compaction method B
30801	CY	Roadway aggregate, compaction method 2
32111	CY	Aggregate surface course, grading XX, compaction method B
60201a	FT	18-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B
60201b	FT	24-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B, 0-5' deep @ road centerline
60201c	FT	24-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B, 5-10' deep @ road centerline
60201d	FT	24-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage, compaction method B, 10'-20' deep @ road centerline
60201e	FT	42-inch pipe culvert, aluminized-corrugated steel pipe, 14 gage, compaction method B
60208	Each	End section, 24-inch round culvert, flared inlet with toe plate
60601a	Each	24-inch Spillway assembly, 12' length
60601b	Each	24-inch Spillway assembly, 20' length
60603	Each	24-inch Pipe anchor assembly
62530	LSQ	Seeding and mulching, dry method
65002	Each	Install road closure device, type earthen barrier



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Sheet Title:
FSR 5000298
WORK LIST & QUANTITIES
COAL CAMP TIMBER SALE

Project No:
Sheet **14** OF **34**



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R6

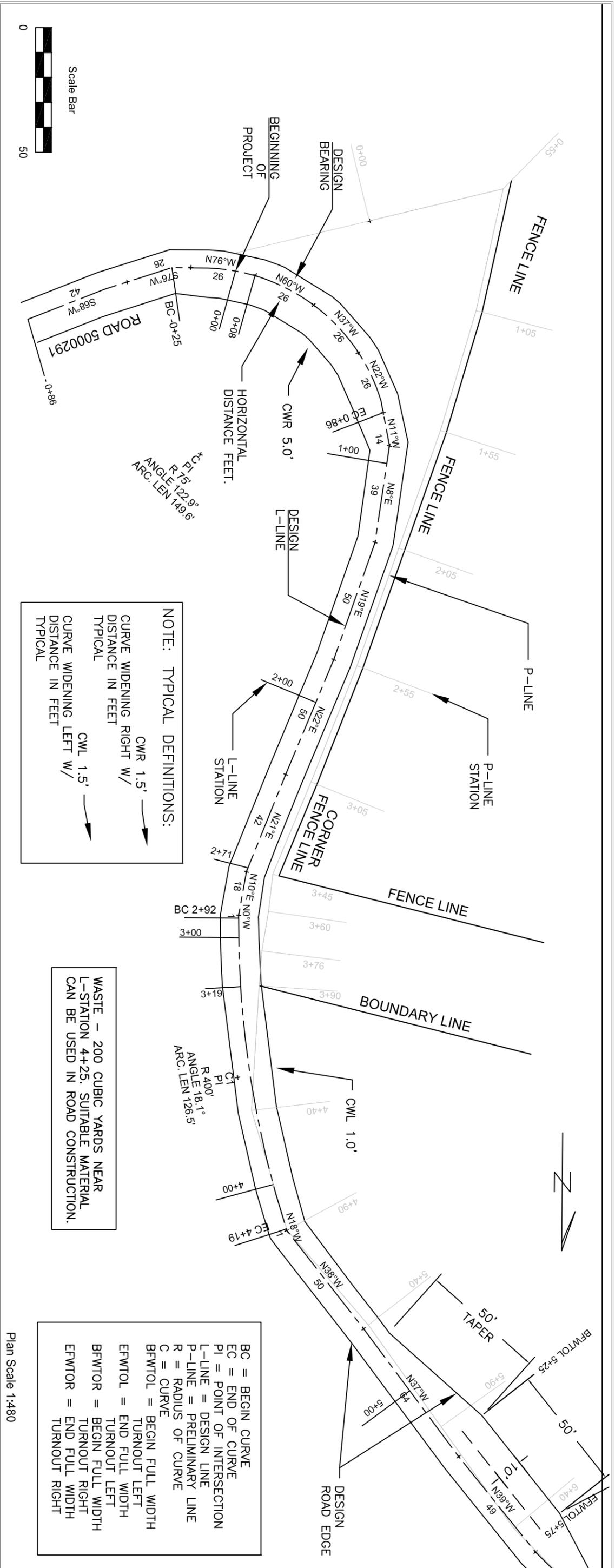
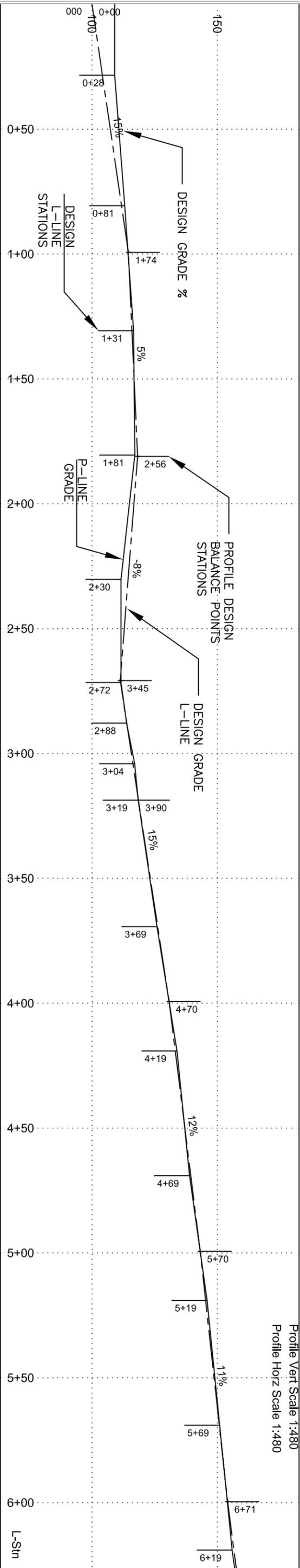
PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**
District: **POWERS RANGER DISTRICT**

Design: D.TULLEE
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Date: 11/2015
Revised by: _____
Rev. Date: _____

Sheet Title: **ROAD 5000291 PLAN AND PROFILE**
Project Name: **1 OF 2**
COAL CAMP TIMBER SALE

Project No: _____
Sheet **16** OF **34**



BC = BEGIN CURVE
 EC = END OF CURVE
 PI = POINT OF INTERSECTION
 L-LINE = DESIGN LINE
 P-LINE = PRELIMINARY LINE
 R = RADIUS OF CURVE
 C = CURVE
 BFWTOL = BEGIN FULL WIDTH TURNOUT LEFT
 EFWTOL = END FULL WIDTH TURNOUT LEFT
 BFWTOR = BEGIN FULL WIDTH TURNOUT RIGHT
 EFWTOR = END FULL WIDTH TURNOUT RIGHT



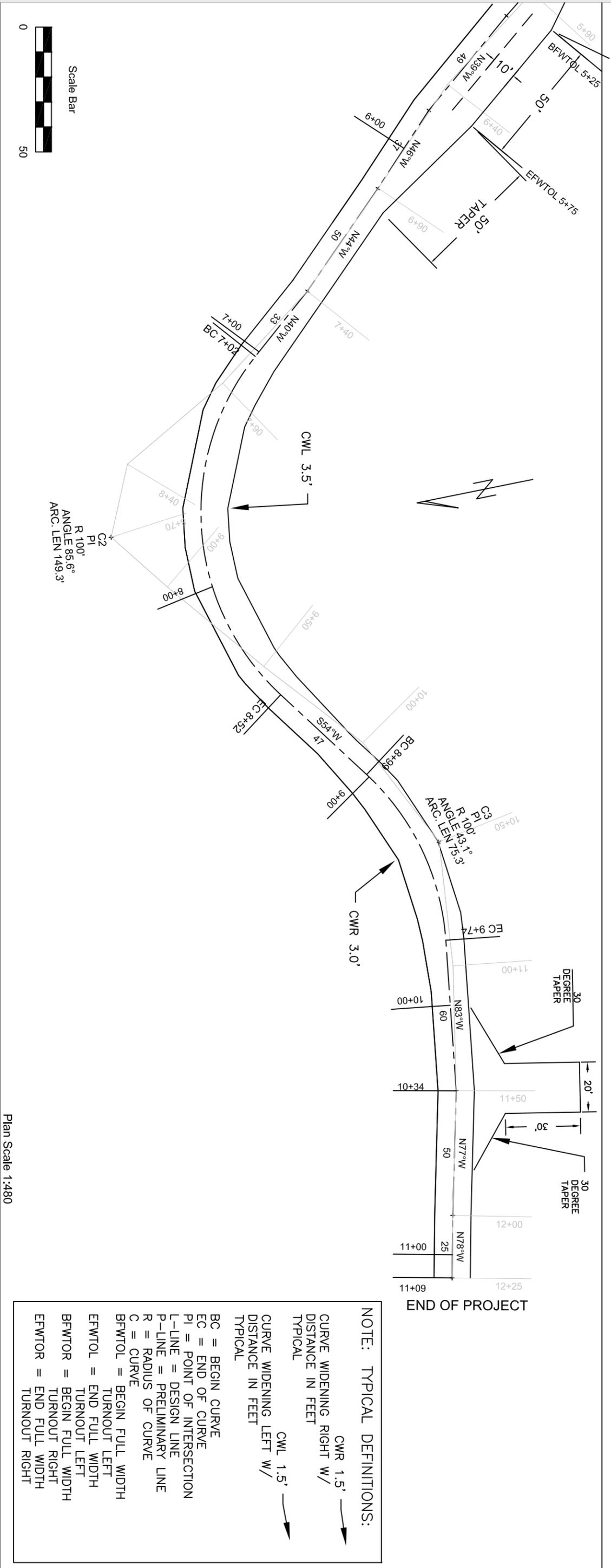
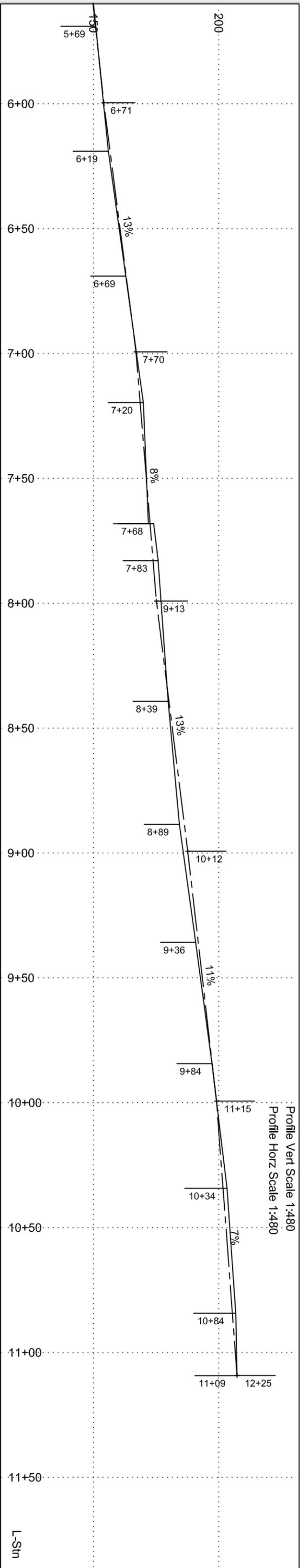
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PACIFIC NORTHWEST REGION

Forest: ROGUE RIVER-SISKIYOU
NATIONAL FOREST
District: POWERS RANGER DISTRICT

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Date: 11/2015
Revised by:
Rev. Date:

Sheet Title: ROAD 5000291 PLAN AND PROFILE
2 OF 2
Project Name: COAL CAMP TIMBER SALE

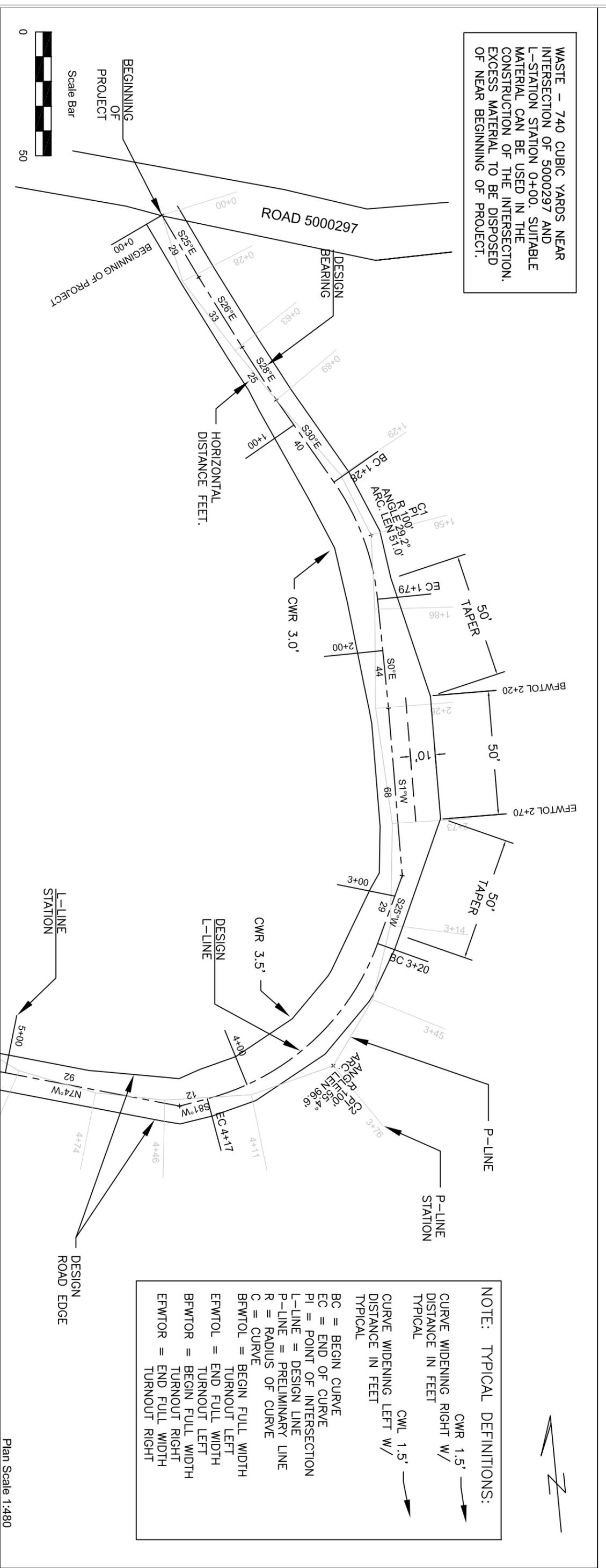
Project No:
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NOTE: TYPICAL DEFINITIONS:

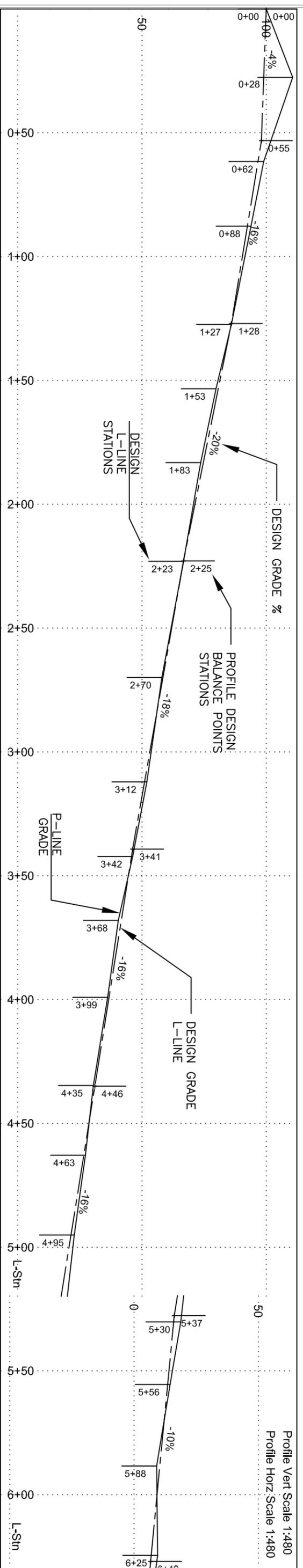
- CWL 1.5' → CURVE WIDENING RIGHT W/DISTANCE IN FEET TYPICAL
- CWL 1.5' → CURVE WIDENING LEFT W/DISTANCE IN FEET TYPICAL
- CWR 3.0' → CURVE WIDENING LEFT W/DISTANCE IN FEET TYPICAL
- CWR 1.5' → CURVE WIDENING RIGHT W/DISTANCE IN FEET TYPICAL
- BC = BEGIN CURVE
- EC = END OF CURVE
- PI = POINT OF INTERSECTION
- L-LINE = DESIGN LINE
- P-LINE = PRELIMINARY LINE
- R = RADIUS OF CURVE
- C = CURVE
- BFWTOL = BEGIN FULL WIDTH TURNOUT LEFT
- EFWTOL = END FULL WIDTH TURNOUT LEFT
- BFWTR = BEGIN FULL WIDTH TURNOUT RIGHT
- EFWTR = END FULL WIDTH TURNOUT RIGHT

WASTE - 740 CUBIC YARDS NEAR INTERSECTION OF 5000297 AND L-STATION 0+00. SUITABLE MATERIAL CAN BE USED IN THE CONSTRUCTION OF THE INTERSECTION. EXCESS MATERIAL TO BE DISPOSED OF NEAR BEGINNING OF PROJECT.



NOTE: TYPICAL DEFINITIONS:

- CWR 1.5' → CURVE WIDENING RIGHT W/ DISTANCE IN FEET TYPICAL
- CWR 3.0' → CURVE WIDENING LEFT W/ DISTANCE IN FEET TYPICAL
- CWR 1.5' → CURVE WIDENING LEFT W/ DISTANCE IN FEET TYPICAL
- BC = BEGIN CURVE
- EC = END OF CURVE
- PI = POINT OF INTERSECTION
- L-LINE = DESIGN LINE
- P-LINE = PRELIMINARY LINE
- R = RADIUS OF CURVE
- C = CURVE
- BFWTOL = BEGIN FULL WIDTH TURNOUT LEFT
- EFWTOL = END FULL WIDTH TURNOUT LEFT
- BFWTOR = BEGIN FULL WIDTH TURNOUT RIGHT
- EFWTOR = END FULL WIDTH TURNOUT RIGHT





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R6
PACIFIC NORTHWEST REGION

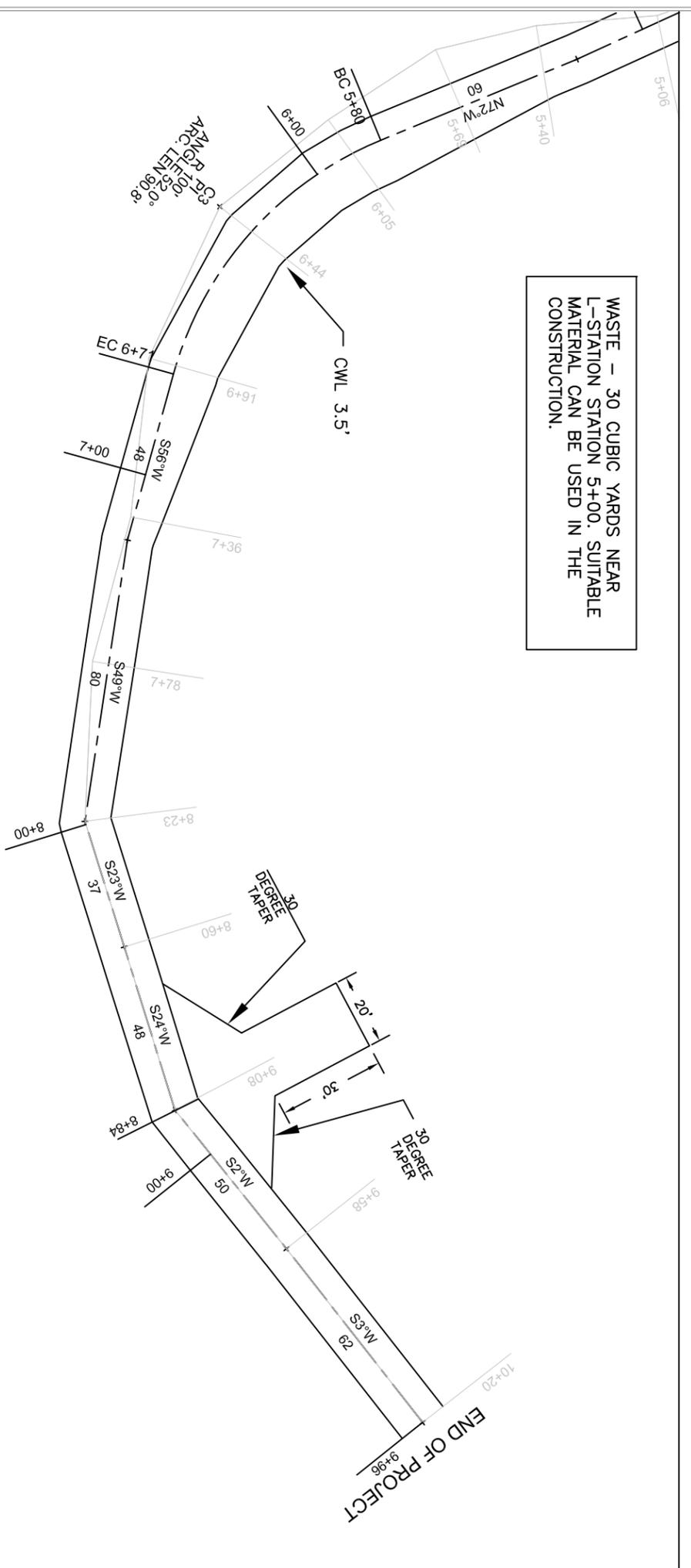
Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**
District: **POWERS RANGER DISTRICT**

Design: D.TULEE
Drawn: D.TULEE
Checked: L.COMBIE
Date: 11/2015
Revised By: _____
Rev. Date: _____

Sheet Title: **ROAD 5000295 PLAN AND PROFILE**
1 OF 2
Project Name: **COAL CAMP TIMBER SALE**

Project No: _____
Sheet **18** OF **34**

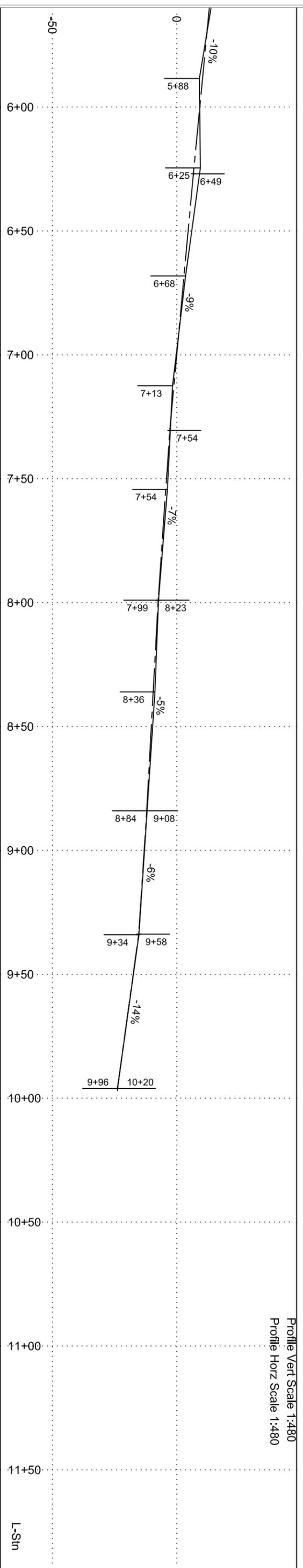
WASTE - 30 CUBIC YARDS NEAR L-STATION 5+00. SUITABLE MATERIAL CAN BE USED IN THE CONSTRUCTION.



NOTE: TYPICAL DEFINITIONS:

- CWR 1.5' → CURVE WIDENING RIGHT W/ DISTANCE IN FEET TYPICAL
- CWL 1.5' → CURVE WIDENING LEFT W/ DISTANCE IN FEET TYPICAL
- BC = BEGIN CURVE
- EC = END OF CURVE
- PI = POINT OF INTERSECTION
- L-LINE = DESIGN LINE
- P-LINE = PRELIMINARY LINE
- R = RADIUS OF CURVE
- C = CURVE
- BFWTOL = BEGIN FULL WIDTH TURNOUT LEFT
- EFWTOL = END FULL WIDTH TURNOUT LEFT
- BFWTOR = BEGIN FULL WIDTH TURNOUT RIGHT
- EFWTOR = END FULL WIDTH TURNOUT RIGHT

Plan Scale 1:480



Profile Vert Scale 1:480
Profile Horiz Scale 1:480

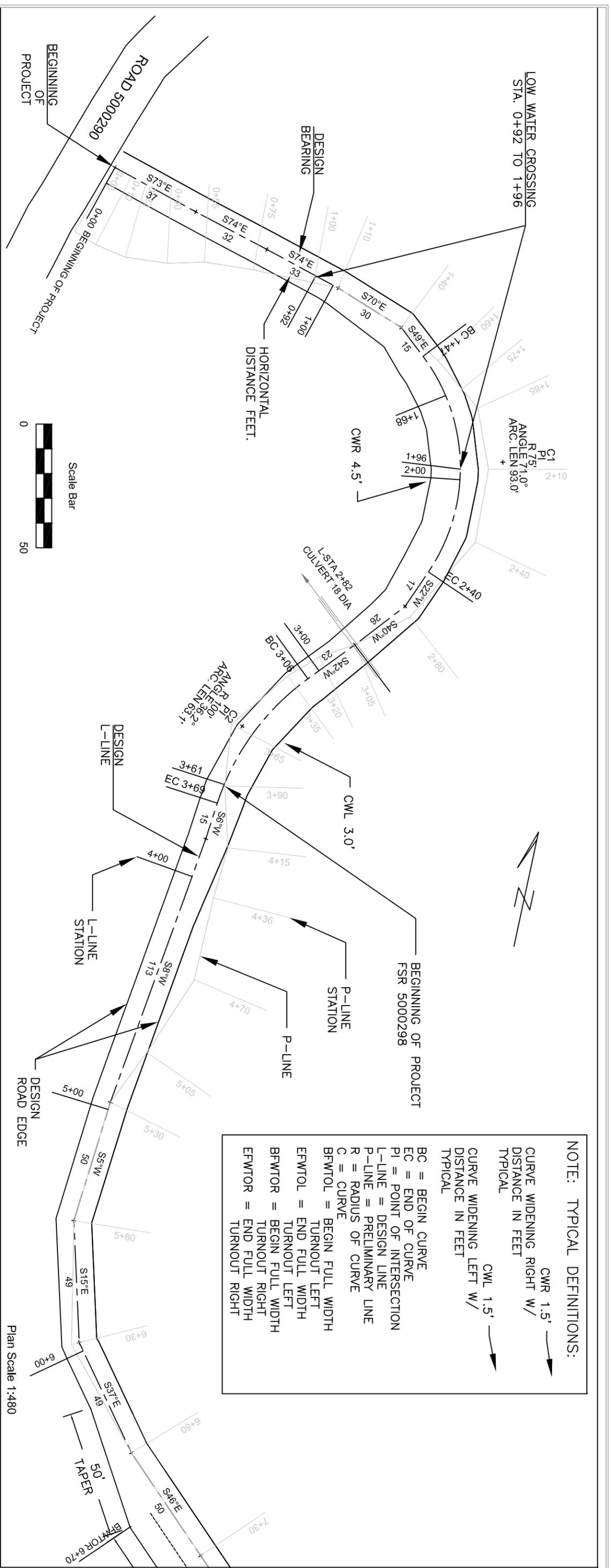
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest: ROGUE RIVER-SISKIYOU NATIONAL FOREST
District: POWERS RANGER DISTRICT

Design: D.TULLEE
Drawn: D.TULLEE
Checked: L.COMBE
Date: 11/2015
Revised By:
Rev. Date:

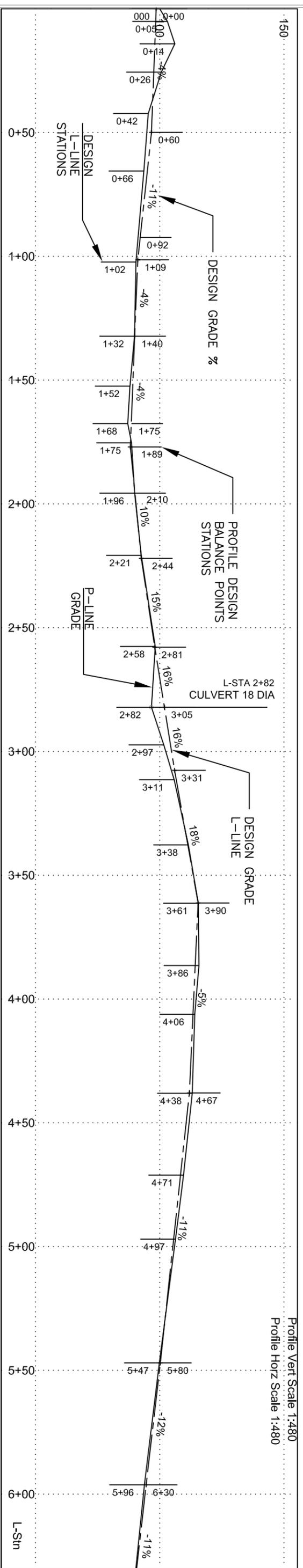
Sheet Title: ROAD 5000295 PLAN AND PROFILE
2 OF 2
Project Name: COAL CAMP TIMBER SALE

Project No:
Sheet 19 OF 34



NOTE: TYPICAL DEFINITIONS:

CWR 1.5' → CURVE WIDENING RIGHT W/ DISTANCE IN FEET TYPICAL
 CWL 1.5' → CURVE WIDENING LEFT W/ DISTANCE IN FEET TYPICAL
 BC = BEGIN CURVE
 EC = END OF CURVE
 PI = POINT OF INTERSECTION
 L-LINE = DESIGN LINE
 P-LINE = PRELIMINARY LINE
 R = RADIUS OF CURVE
 C = CURVE
 BFWTOR = BEGIN FULL WIDTH TURNOUT LEFT
 EFWTOL = END FULL WIDTH TURNOUT LEFT
 BFWTOR = BEGIN FULL WIDTH TURNOUT RIGHT
 EFWTOR = END FULL WIDTH TURNOUT RIGHT





**U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE**

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PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**

District: **POWERS RANGER DISTRICT**

Design: D.TULLEE
 Drawn: D.TULLEE
 Checked: L.COMBIE
 Date: 11/2015
 Revised by: _____
 Rev. Date: _____

Sheet Title: **ROAD 5000296 PLAN AND PROFILE**

1 OF 2

Project Name: **COAL CAMP TIMBER SALE**

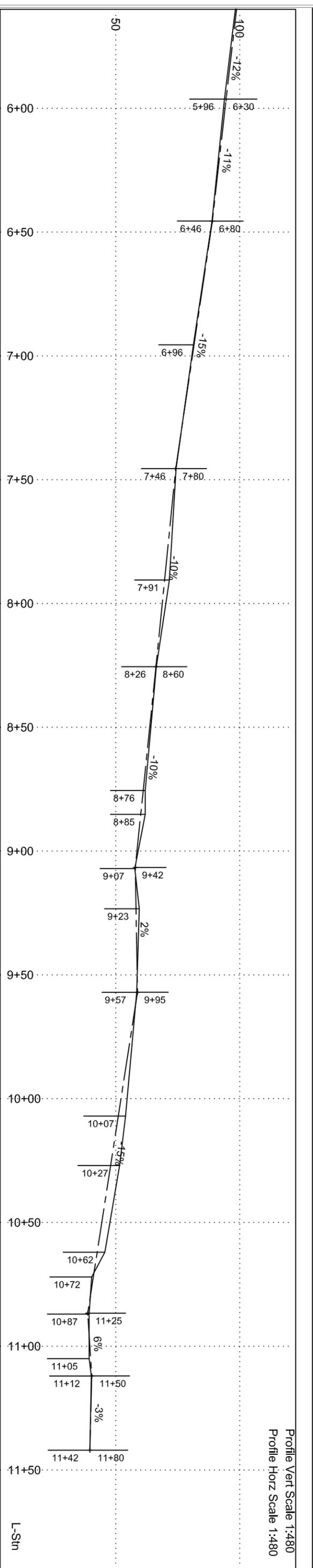
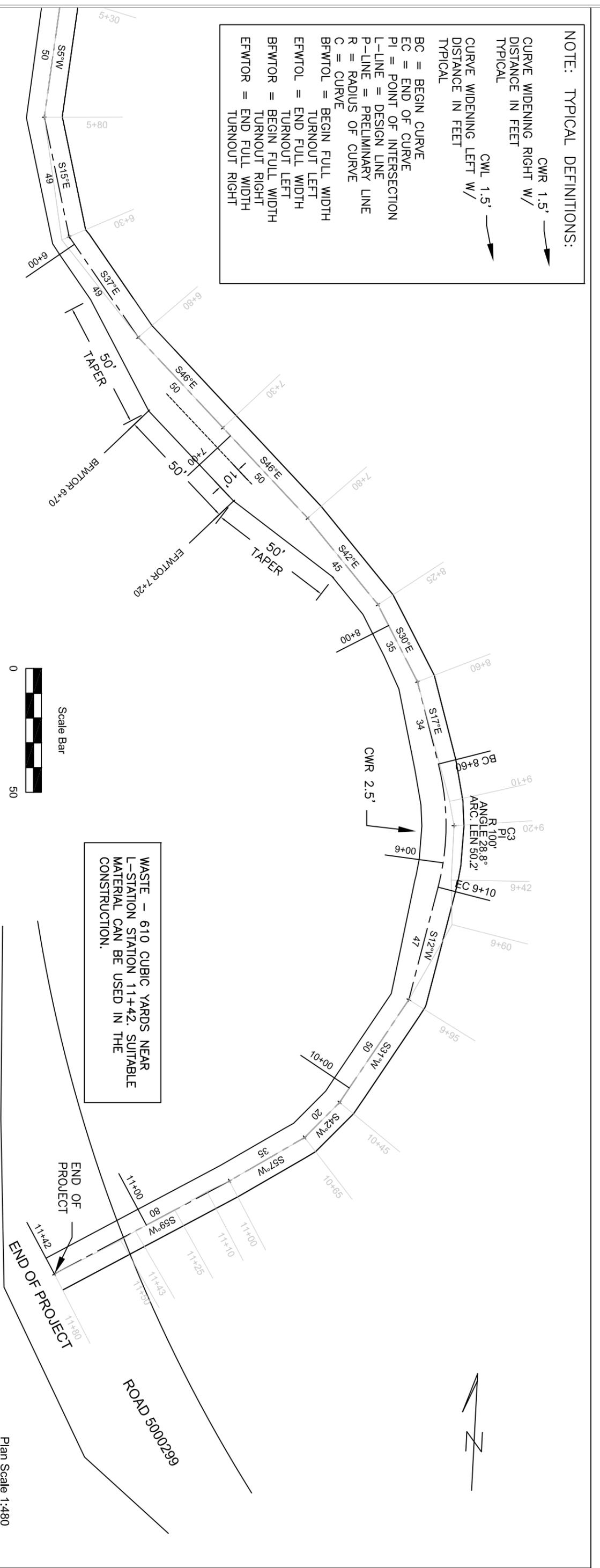
Profile Vert Scale 1:480
 Profile Horiz Scale 1:480
 Plan Scale 1:480

Project No: _____

Sheet **20** OF **34**

NOTE: TYPICAL DEFINITIONS:

- CWR 1.5' →
- CURVE WIDENING RIGHT W/
DISTANCE IN FEET
- CURVE WIDENING LEFT W/
DISTANCE IN FEET
- TYPICAL
- CWR 1.5' →
- BC = BEGIN CURVE
- EC = END OF CURVE
- PI = POINT OF INTERSECTION
- L-LINE = DESIGN LINE
- P-LINE = PRELIMINARY LINE
- R = RADIUS OF CURVE
- C = CURVE
- BFWTOL = BEGIN FULL WIDTH
TURNOUT LEFT
- EFWTOL = END FULL WIDTH
TURNOUT LEFT
- BFWTOR = BEGIN FULL WIDTH
TURNOUT RIGHT
- EFWTOR = END FULL WIDTH
TURNOUT RIGHT





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FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**

District: **POWERS RANGER DISTRICT**

Design: D.TULLEE

Drawn: D.TULLEE

Checked: L.COMBE

Date: 11/2015

Revised By: _____

Rev. Date: _____

Sheet Title: **ROAD 5000296 PLAN AND PROFILE**

Project Name: **2 OF 2**

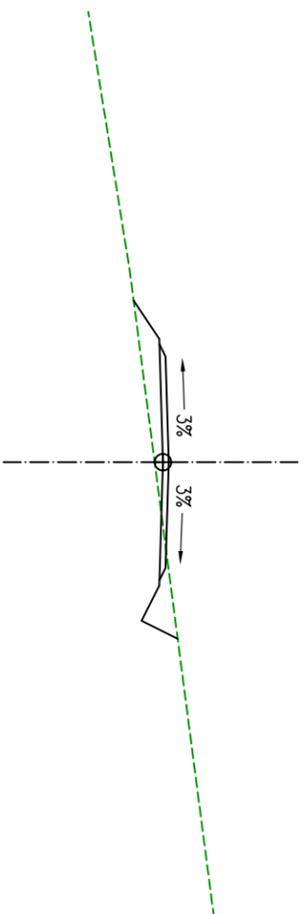
COAL CAMP TIMBER SALE

Project No: _____

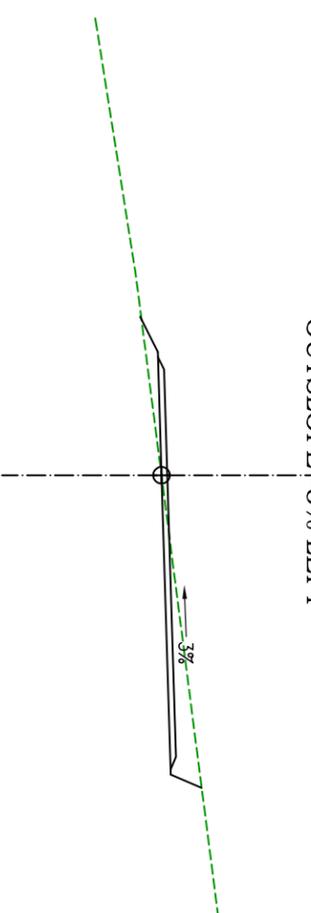
Sheet **21** OF **34**

Project No: _____

12' TOP WIDTH W/ DITCH
CROWN -3%

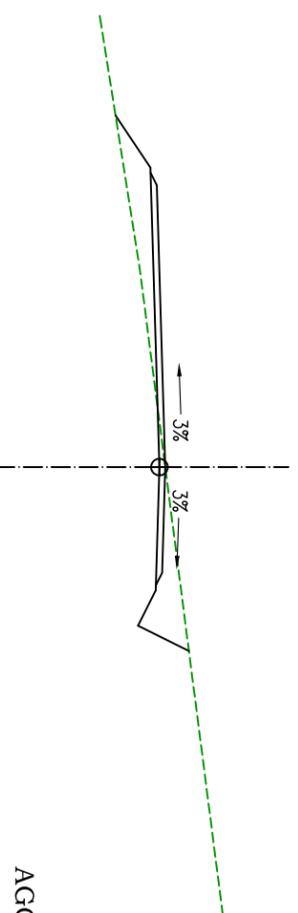


10' TURNOUT RIGHT / NO DITCH
OUTSLOPE -3% LEFT

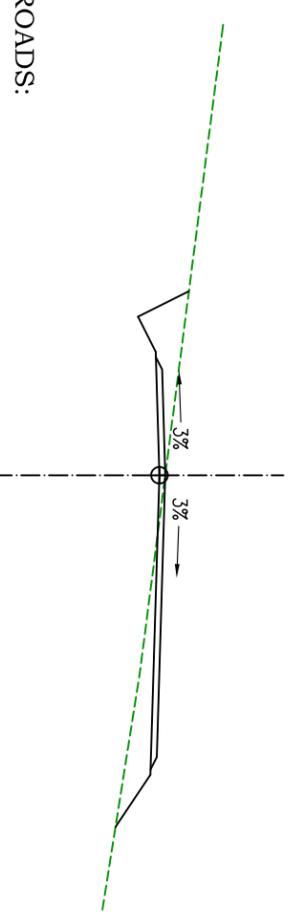


REFER TO THE SLOPE STAKING NOTES FOR TYPICAL SECTION ASSIGNMENTS.

10' TURNOUT LEFT W/ DITCH
CROWN -3%



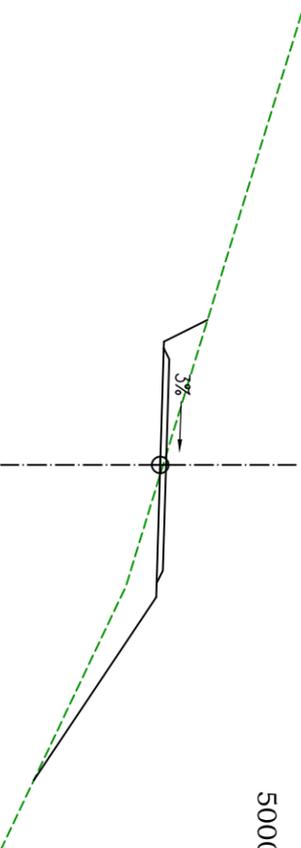
10' TURNOUT RIGHT W/ DITCH
CROWN -3%



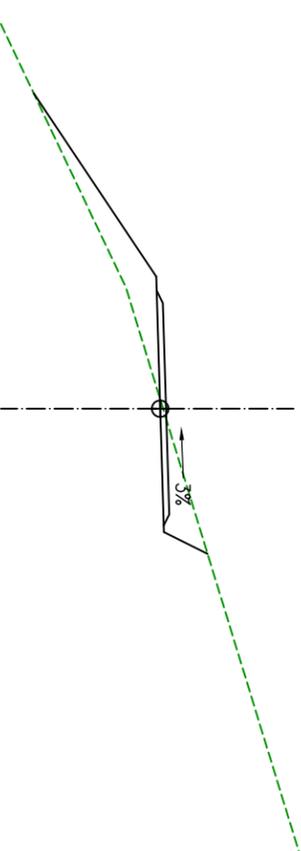
AGGREGATE DEPTH FOR ROADS:

- 5000210 - 6" MP 0.56 - 0.67
- 5000291 - 4" STATION 0+00 - 3+19
- 5000291 - 6" STATION 3+19 - 11+09
- 5000295 - 6" STATION 0+00 - 9+96
- 5000296 - 6" STATION 0+00 - 0+92
- 5000296 - 10" STATION 0+92 - 1+96
- 5000296 - 6" STATION 1+96 - 11+42

OUTSLOPE RIGHT / NO DITCH
OUTSLOPE -3% RIGHT



OUTSLOPE LEFT / NO DITCH
OUTSLOPE -3% LEFT



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R6
PACIFIC NORTHWEST REGION

Forest:
District:

ROGUE RIVER-SISKIYOU
NATIONAL FOREST
POWERS RANGER DISTRICT

Design: D. TULLEE
Drawn: D. SAMSON
Checked: L. COOMBE
Date: 11/2015

Sheet Title:

TYPICAL SECTIONS
COAL CAMP TIMBER SALE

Project No:

Sheet
22 OF 34

BLEND AND TAPER FROM 6" TO 10"
AGGREGATE SURFACE DEPTH PRIOR
TO AND AFTER LOW WATER CROSSING

0+92

-4%

10%

1+96

GEOTEXTILE IV-C

PROFILE

KEYED 2' DEEP POORLY GRADED
CLASS 3 RIPRAP

PLACE AND COMPACT 10"
XX AGGREGATE SURFACE COURSE

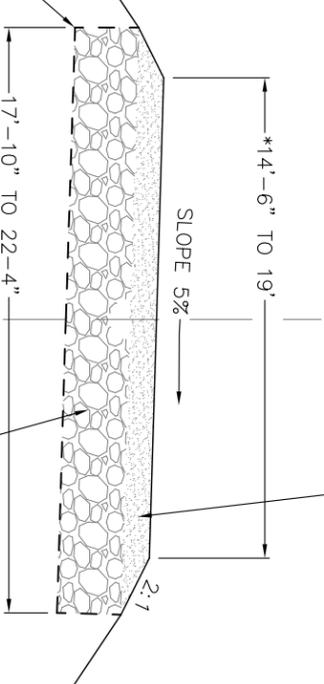
EXISTING FILL SLOPE

DRY CHANNEL FLOW

GEOTEXTILE IV-C

KEYED 2' DEEP POORLY GRADED
CLASS 3 RIPRAP

* ROAD WIDTH CHANGES DUE TO CURVE WIDENING



SIDE VIEW

- NOTES:**
1. SAG OF LOW WATER CROSSING SHALL BE SMOOTH AND FREE DRAINING.
 2. THE CROSS SLOPE SHALL BE 5% AT THE BOTTOM OF THE SAG.
 3. EXCAVATE EXISTING MATERIAL AND DISPOSE AT DESIGNATED WASTE SITE.
 4. PLACE GEOTEXTILE ALONG BOTTOM AND SIDES OF TRENCH, FULL LENGTH AND WIDTH, TO TOP OF RIPRAP.
 5. PLACE POORLY GRADED CLASS 3 RIPRAP AS DRAIN ROCK.
 6. SURFACE RIPRAP WITH 10" OF GRADE XX AGGREGATE SURFACE COURSE. BLEND AND TAPER AGGREGATE SURFACE COURSE FROM 6" TO 10" PRIOR TO AND AFTER LOW WATER CROSSING.

DRAWINGS
NOT TO SCALE

FSR 5000296
STA 0+92 TO 1+96



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PACIFIC NORTHWEST REGION

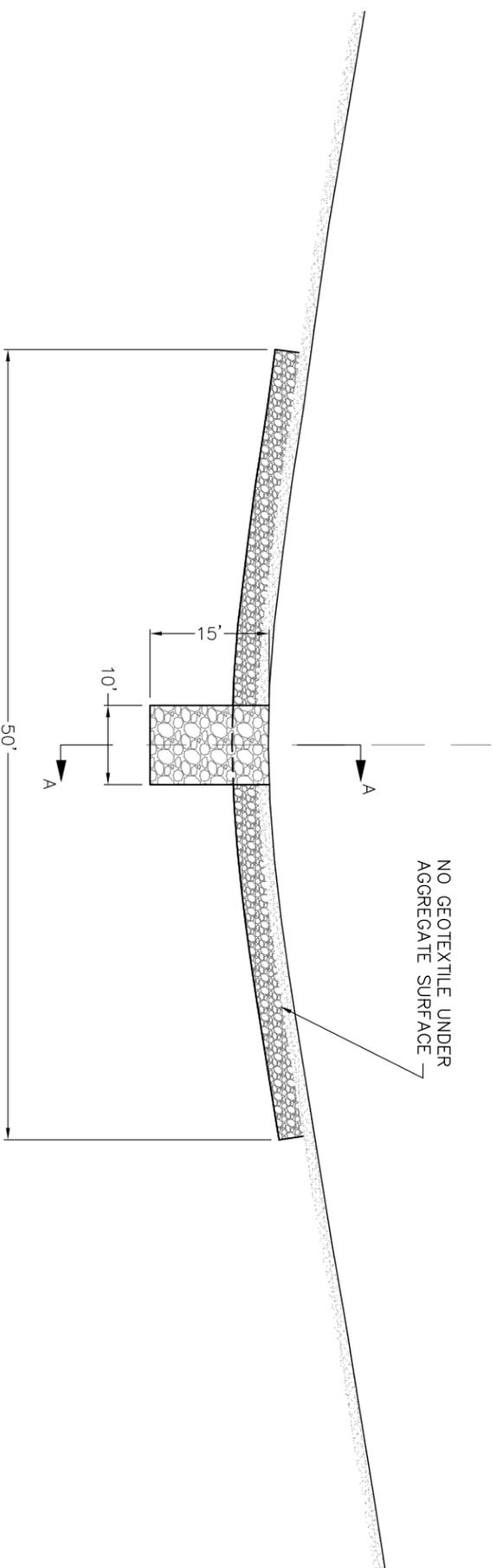
Forest: **ROGUE RIVER-SISKIYOU
NATIONAL FOREST**
District: **POWERS RANGER DISTRICT**

Design: D. TULEE
Drawn: D. SAMSON
Checked: L. COOMBE
Date: 11/2015

Sheet Title: **LOW WATER CROSSING**
COAL CAMP TIMBER SALE

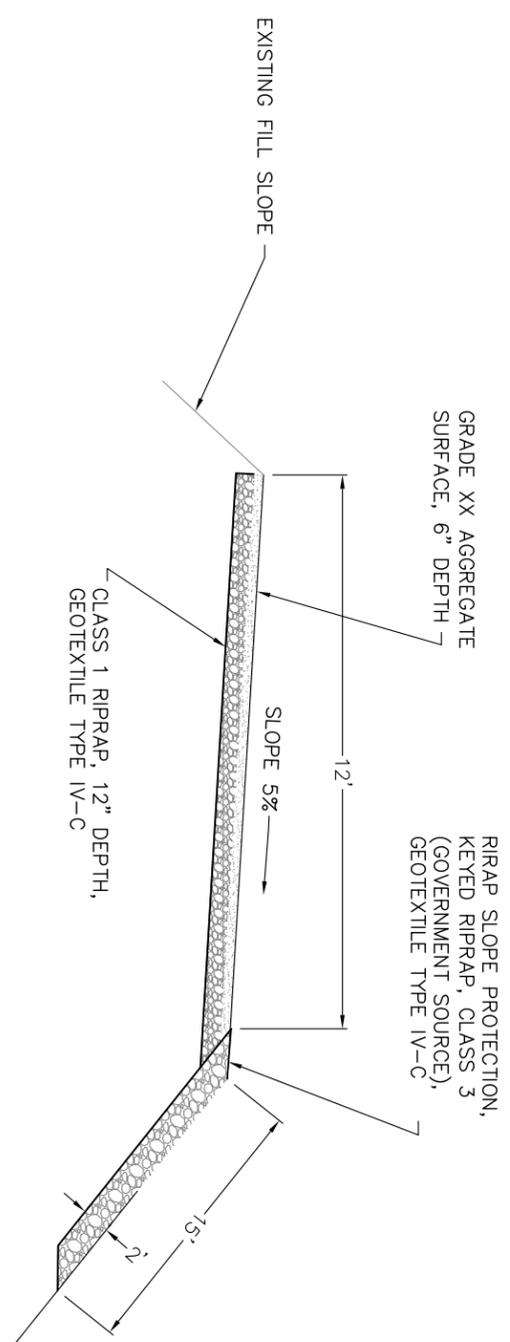
Project No: _____
Sheet **23** OF **34**

MP 0.66



PROFILE

- NOTES:**
1. SAG OF GRADE SAG SHALL BE SMOOTH AND FREE DRAINING.
 2. THE CROSS SLOPE SHALL BE 5% AT THE BOTTOM OF THE SAG.
 3. EXCAVATE EXISTING MATERIAL AND DISPOSE AT DESIGNATED WASTE SITE.
 4. PLACE GEOTEXTILE ALONG BOTTOM OF TRENCH, FULL LENGTH AND WIDTH.
 5. PLACE AND COMPACT CLASS 1 RIPRAP, 12" DEPTH.
 6. SURFACE RIPRAP WITH 6" OF GRADE XX AGGREGATE SURFACE COURSE.



FSR 5000210

DRAWINGS
NOT TO SCALE



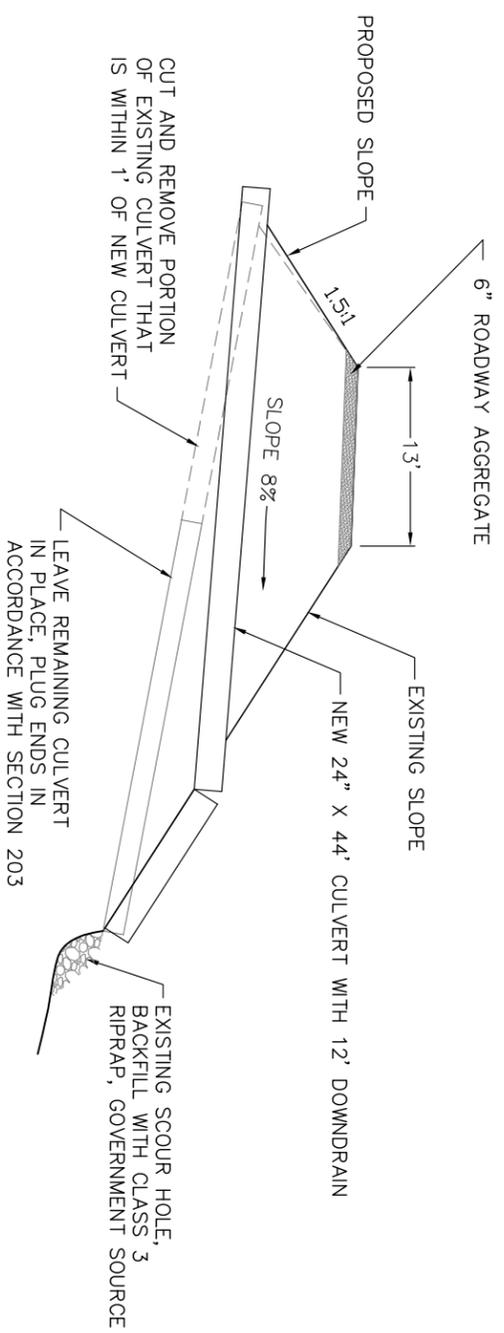
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**
District: **POWERS RANGER DISTRICT**

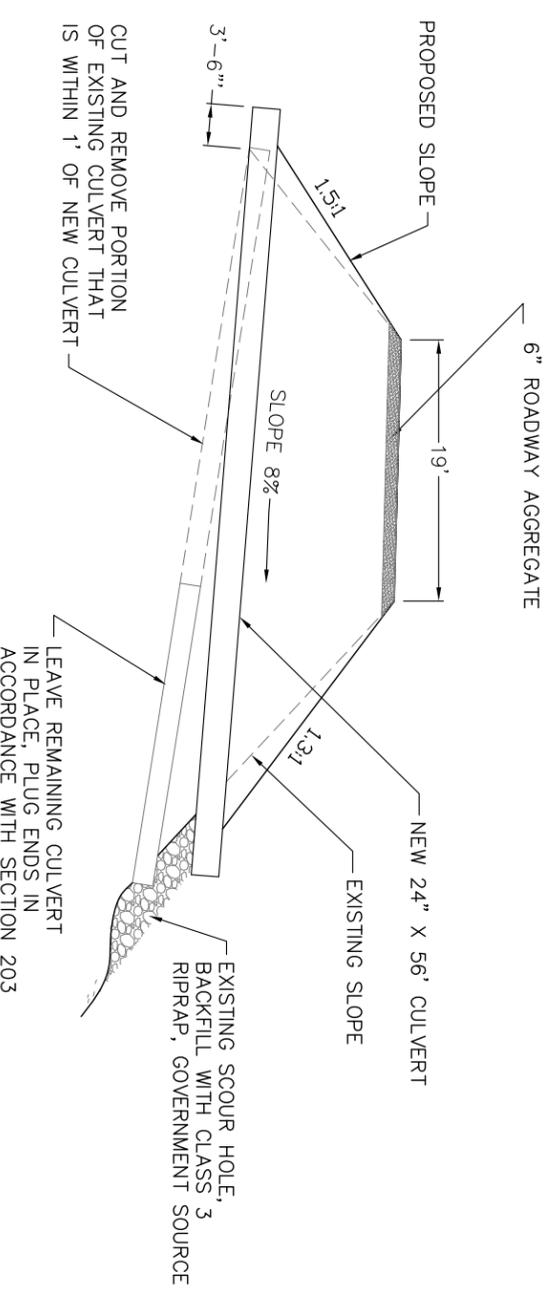
Design: L. COOMBE
Drawn: L. COOMBE
Checked: D. TULEE
Date: 11/2015

Sheet Title: **GRADE SAG**
COAL CAMP TIMBER SALE

Project No: _____
Sheet **24** OF **34**



FSR 5000200
MP 0.82



FSR 5000000
MP 3.32

- NOTES:**
1. INSTALL CULVERTS IN ACCORDANCE WITH SHEET 'CULVERT INSTALLATION & BEDDING'.
 2. DOWN DRAINS CONSIST OF SPILLWAY ONLY. INSTALL IN ACCORDANCE WITH SHEET 'CULVERT DOWNDRAIN WITH ANCHOR ASSEMBLY'.
 3. GOVERNMENT SOURCE RIPRAP LOCATED ON FSR 3300000 AT MP 57.2.
 4. MATCH EXISTING ROAD WIDTH AND GRADE AT EDGE OF EXCAVATION.
 5. MATCH EXISTING FILL SLOPE AND GRADE ALONG EDGE OF EXCAVATION.
 6. SEE FSSS SECTION 107 FOR SEASONAL RESTRICTIONS AND SECTION 156 FOR ALLOWABLE ROAD CLOSURES.
 7. HAUL UNSUITABLE AND EXCESS MATERIAL TO APPROVED DISPOSAL SITES.
 8. SEED AND MULCH ALL DISTURBED AREAS.

DRAWINGS
NOT TO SCALE



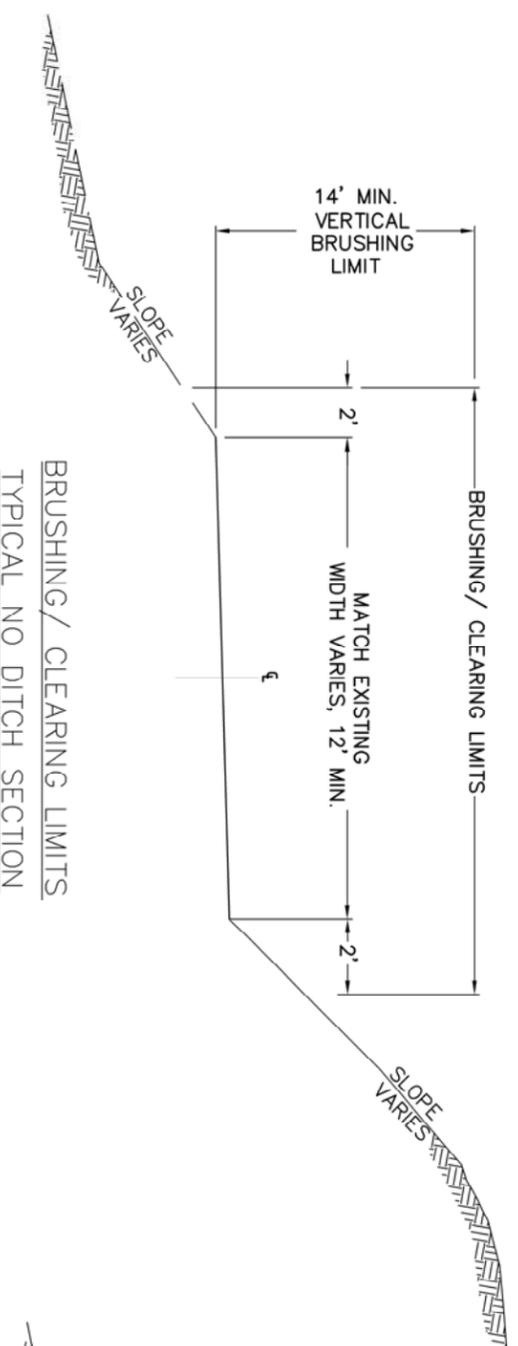
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Forest:
**ROGUE RIVER-SISKIYOU
NATIONAL FOREST**
District:
POWERS RANGER DISTRICT

Design: L. COOMBE
Drawn: L. COOMBE
Checked: D. TULEE
Date: 11/2015

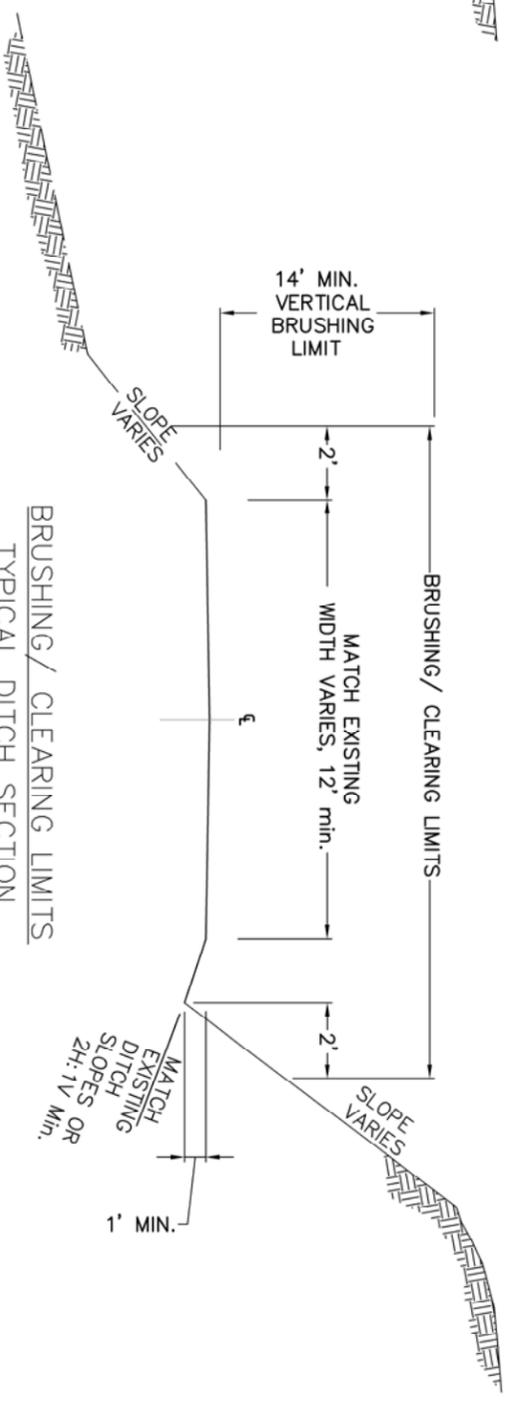
Sheet Title:
DEEP CULVERTS
COAL CAMP TIMBER SALE

Project No:
Sheet **25** OF **34**



BRUSHING / CLEARING LIMITS
TYPICAL NO DITCH SECTION

FOR THE FOLLOWING ROADS, MAX. WIDTH OF 12'
(EXCEPT TURNOUTS AND CURVE WIDENING),
CLEARING LIMIT OF 1' BOTH SIDES:
5000291
5000295
5000296
5000298
5000299

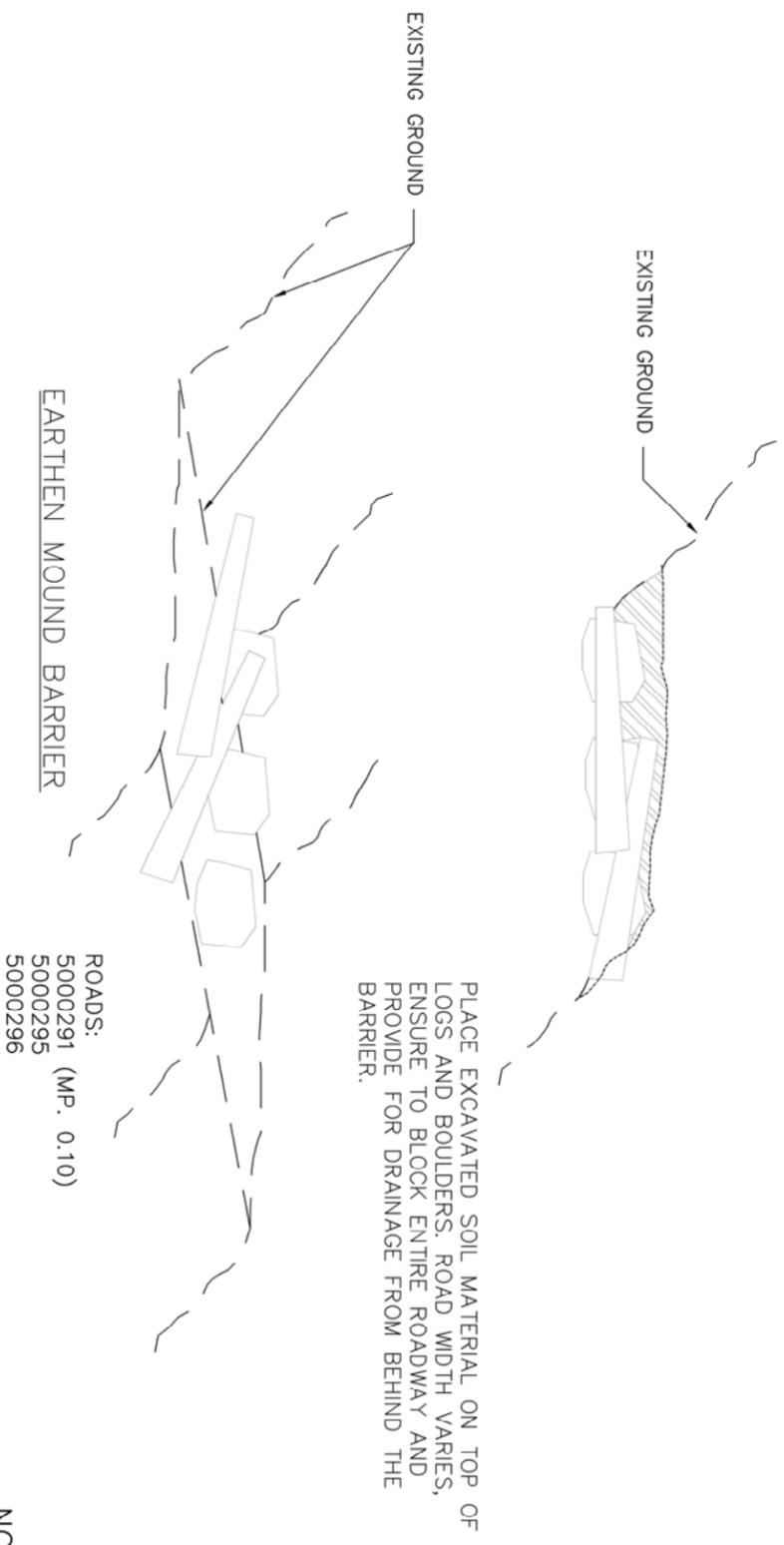


BRUSHING / CLEARING LIMITS
TYPICAL DITCH SECTION

FOR THE FOLLOWING ROADS, MAX. WIDTH OF 12'
(EXCEPT TURNOUTS AND CURVE WIDENING),
CLEARING LIMIT OF 1' BOTH SIDES:
5000291
5000295
5000296
5000299

NOTES:

- GRUB AND BACKFILL STUMPS IN ROADBED AREA. BACKFILL IF GRUBBED FROM CUT OR FILL SLOPES.
- DECK LOGS IN DESIGNATED LOCATIONS ALONG ROADS IN PRIVATE LAND, FSR 5000000, 5000200, 500210 (MP 0.00 TO 0.34), 5000291 (MP 0.00 TO 0.16).
- CONSTRUCT /OR REMOVE AND RE-INSTALL EXISTING EARTH MOUND BARRIER AS DESIGNATED OR AS SHOWN ON PLANS. CONSTRUCT EARTH MOUND BARRIER FROM EXISTING BOULDERS, LOGS AND EXCAVATED MATERIAL ADJACENT TO EXISTING BARRIER LOCATION. USE ADEQUATE AMOUNT OF LOGS AND BOULDERS. PLACE EXCAVATED SOIL MATERIAL ON TOP OF BOULDERS AND LOGS, MINIMUM 5 FEET HIGH. ENSURE TO COMPLETELY BLOCK ENTRANCE FROM CUTBANK TO OUTER EDGE OF EXISTING ROADWAY.



PLACE EXCAVATED SOIL MATERIAL ON TOP OF LOGS AND BOULDERS. ROAD WIDTH VARIES, ENSURE TO BLOCK ENTIRE ROADWAY AND PROVIDE FOR DRAINAGE FROM BEHIND THE BARRIER.

EARTHEN MOUND BARRIER
ROADS:
5000291 (MP. 0.10)
5000295
5000296

DRAWINGS
NOT TO SCALE



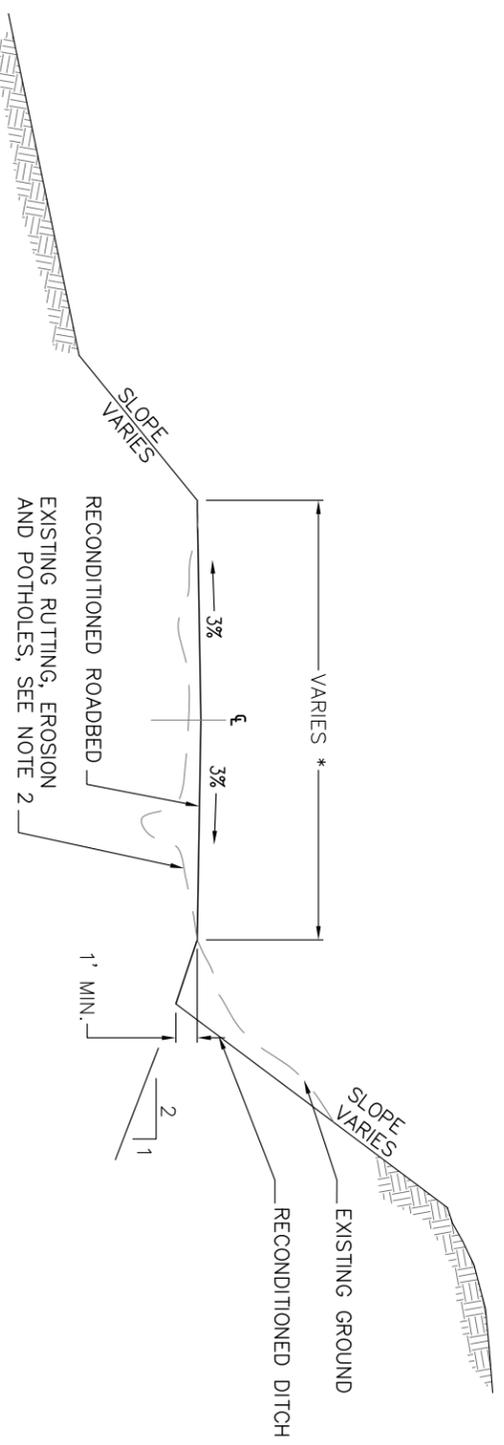
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FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest:
**ROGUE RIVER-SISKIYOU
NATIONAL FOREST**
District:
POWERS RANGER DISTRICT

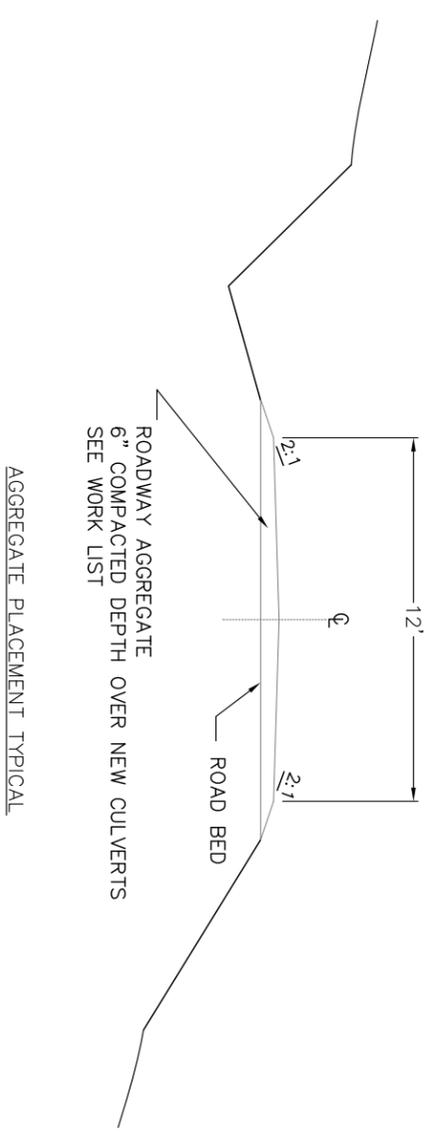
Design: L. COOMBE
Drawn: D. SAMSON
Checked: D. TULEE
Date: 11/2015

Sheet Title:
**CLEARING AND GRUBBING
TYPICALS**
COAL CAMP TIMBER SALE

Project No:
Sheet **26** OF **34**

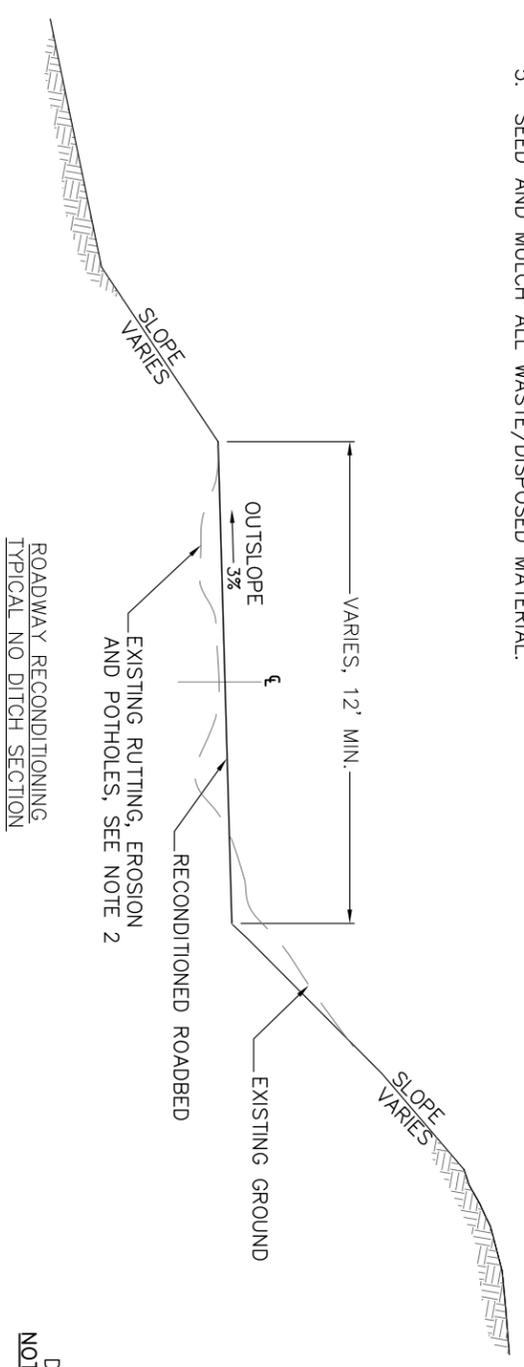


ROADWAY RECONDITIONING
TYPICAL DITCH SECTION



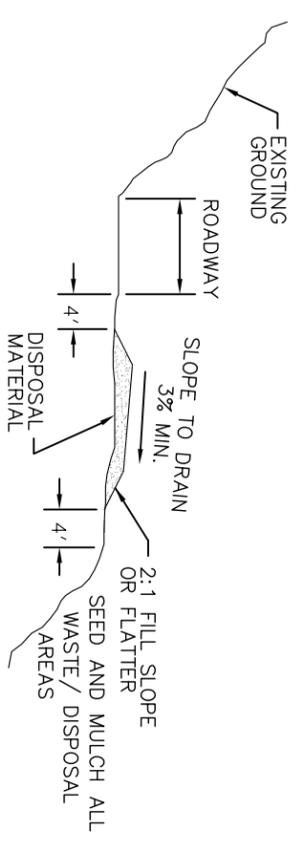
NOTES:

1. RECONDITION ROADS AS SHOWN AND IN ACCORDANCE WITH FP-03 SECTION 303. REQUIRED RECONDITIONING INCLUDES WIDENING FOR CURVES AND TURNOUTS.
2. WHERE RUTTING, EROSION AND POTHOLES EXIST, SCARIFY TO DEPTH OF RUT/EROSION/POTHOLE, BLADE, SHAPE AND COMPACT EXISTING AGGREGATE SURFACE MATERIAL.
3. PLACE AGGREGATE SURFACE OR ROADWAY EXCAVATION MATERIAL AS SHOWN ON WORK LISTS.
4. REMOVE AND DISPOSE OF SLIDE, DITCH, AND CATCH BASIN MATERIAL AT DESIGNATED DISPOSAL SITES.
5. SEED AND MULCH ALL WASTE/DISPOSED MATERIAL.



ROADWAY RECONDITIONING
TYPICAL NO DITCH SECTION

DRAWINGS
NOT TO SCALE



ROAD #	MILEPOSTS	DISPOSAL SITES
5000000	MP. 5.7	



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Forest:
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District:
POWERS RANGER DISTRICT

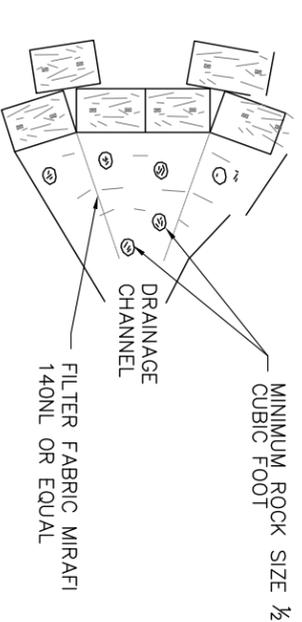
Design: L. COOMBE
Drawn: D. SAMSON
Checked: D. TULEE
Date: 11/2015

Sheet Title:
ROAD RECONDITIONING
COAL CAMP TIMBER SALE

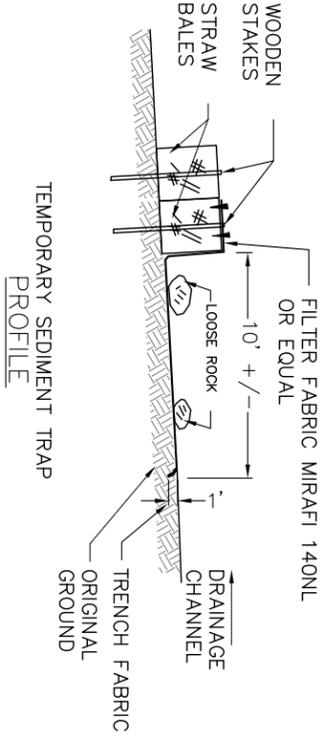
Project No:
Sheet **27** OF **34**

EROSION AND SEDIMENT CONTROL:

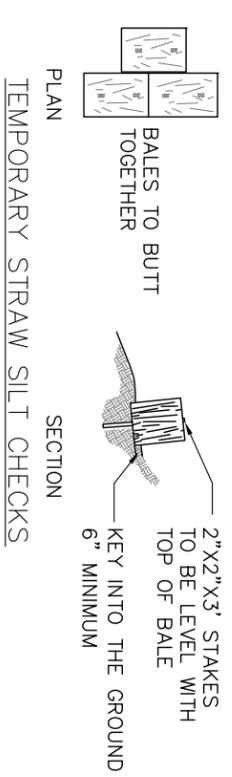
1. PRIOR TO THE START OF CONSTRUCTION, SUBMIT A WRITTEN PLAN THAT PROVIDES PERMANENT AND TEMPORARY EROSION CONTROL MEASURES TO MINIMIZE EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION.
2. PURCHASER SHALL PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED TO CONTROL SOIL EROSION DURING ROAD RECONSTRUCTION.
3. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO BEGINNING EARTH DISTURBING ACTIVITIES IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY CONTRACTING OFFICER.
4. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER WORK HAS CEASED.
5. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (1/2) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED.
6. SEDIMENT SHALL BE REMOVED FROM BEHIND TEMPORARY SILT FENCING WHEN THE DEPTH OF SEDIMENT REACHES 6 INCHES.
7. ALL DISTURBED AREAS WHERE EARTH IS EXPOSED SHALL BE CLEANED, GRADED SMOOTH, SHAPED TO DRAIN. SEEDED AND MULCHED. SEED WILL BE GOVERNMENT FURNISHED. MULCH SHALL BE CERTIFIED WEED FREE.
8. ALL TEMPORARY SEDIMENT CONTROL MEASURES AND PRACTICES SHALL BE REMOVED WITHIN TWO (2) MONTHS AFTER THE FOREST SERVICE HAS ACCEPTED THE PROJECT.



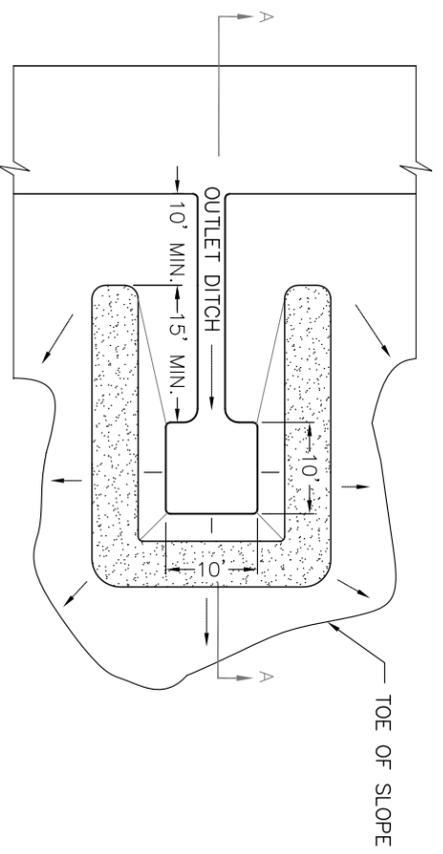
TEMPORARY STRAW SEDIMENT TRAP
PLAN VIEW



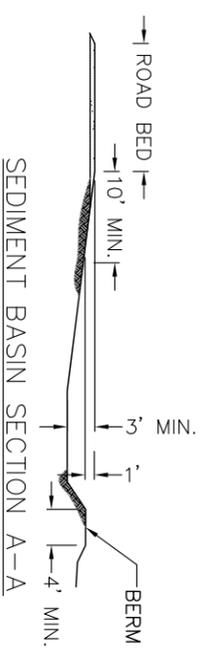
TEMPORARY SEDIMENT TRAP
PROFILE



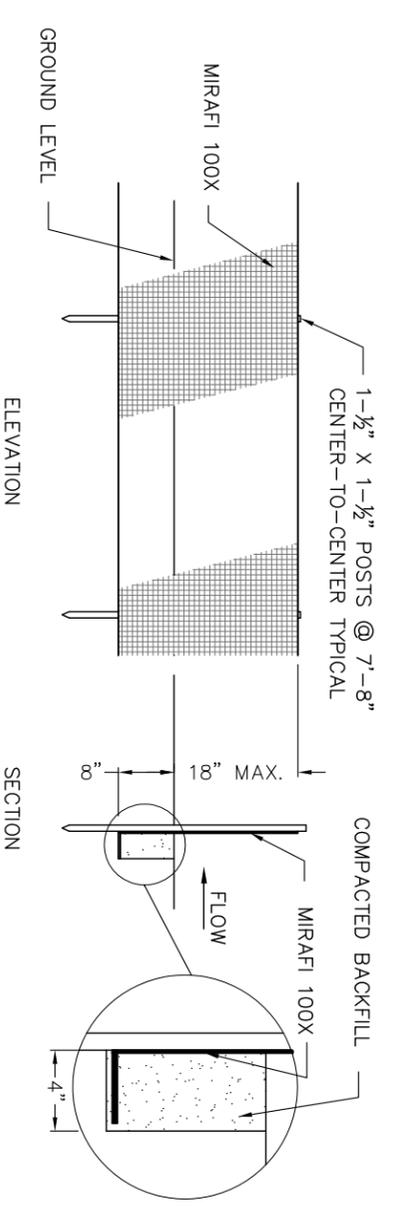
TEMPORARY STRAW SILT CHECKS
PLAN
SECTION



SEDIMENT BASIN PLAN VIEW



SEDIMENT BASIN SECTION A-A



SILT FENCE DETAILS
ELEVATION
SECTION

DRAWINGS
NOT TO SCALE



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**
District: **POWERS RANGER DISTRICT**

Design: **L. COOMBE**
Drawn: **D. SAMSON**
Checked: **D. TULEE**
Date: **11/2015**

Sheet Title: **SEDIMENT CONTROL**
COAL CAMP TIMBER SALE

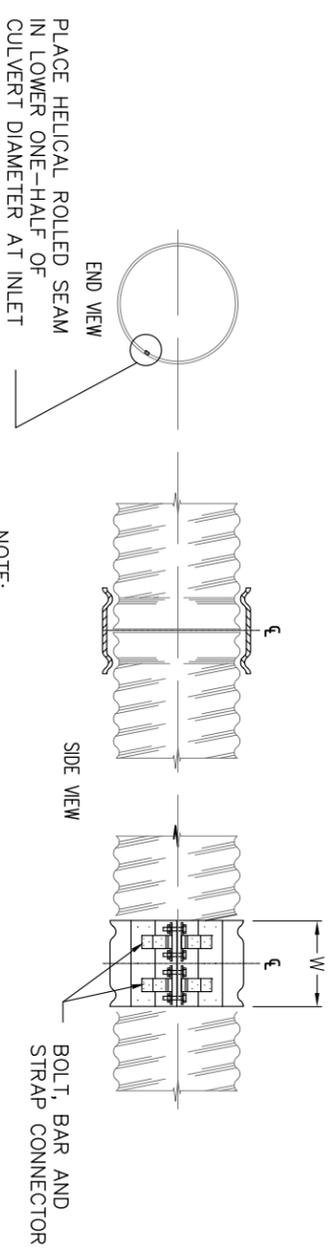
Project No: _____
Sheet **28** OF **34**

COUPLING BANDS FOR METAL PIPE CULVERT				
CORRUIGATION SIZE	PIPE DIAMETER	PIPE - ARCH SPAN X RISE	MINIMUM BAND WIDTH - W	
			ANNULAR CORRUGATED BANDS	HELICALLY CORRUGATED BANDS
1-1/2 by 1/4	under drain	-	12	12
2-2/3 by 1/2	12 to 36	17x13 to 42x29	12	12
	42 to 72	49x33 to 83x57	12	12
	78 to 84	-	12	12
3 by 1	36 to 72	42x29 to 81x59	12	14
	78 to 144	87x63 to 142x91	12	14
5 by 1	48 to 72	57x38 to 81x59	20	22
	78 to 144	87x63 to 142x91	20	22

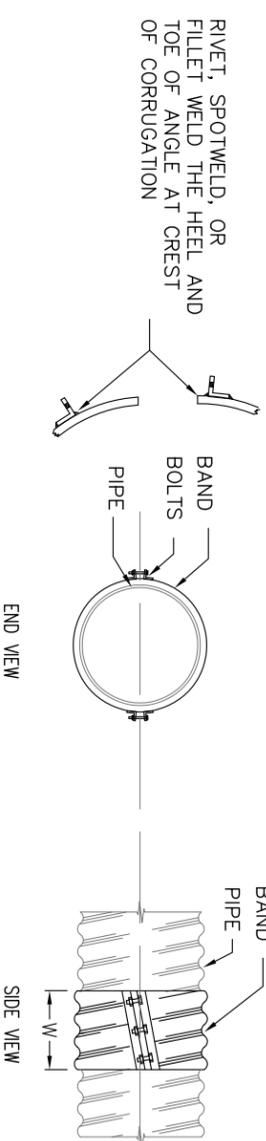
NOTES:

- FABRICATE ANNULAR, HELICAL AND SEMI-CORRUGATED TYPE COUPLING BANDS FROM THE SAME METAL AS THE CONNECTING PIPE. PROVIDE COUPLING BANDS NOT MORE THAN 2 NOMINAL SHEET THICKNESS THINNER THAN THE THICKNESS OF THE PIPE TO BE CONNECTED, AND NO THINNER THAN 0.052 INCH (18 GAGE) FOR STEEL OR 0.048 INCH (18 GAGE) FOR ALUMINUM. FASTEN COUPLING BANDS WITH THE FOLLOWING SIZE OF BOLT:
 - 3/8-INCH FOR PIPE DIAMETER - 18" (21"x15" PIPE ARCH) OR LESS
 - 1/2-INCH FOR PIPE DIAMETER - 21" (24"x18" PIPE ARCH) OR MORE
- FOR HELICALLY CORRUGATED PIPE WITH REROLLED ENDS, THE NOMINAL CORRUGATION SIZE REFERS TO THE DIMENSION OF THE END CORRUGATION IN THE PIPE.
- USE ANNULAR CORRUGATED BANDS WITH PIPES HAVING ANNULAR CORRUGATIONS OR WITH HELICAL PIPE HAVING REROLLED ENDS TO FORM ANNULAR CORRUGATIONS.
- USE HELICAL CORRUGATED BAND WITH PIPES HAVING HELICALLY CORRUGATED ENDS. HELICAL CULVERT INSTALLATIONS SHALL HAVE THE ROLLED SEAM AT THE INLET PLACED IN THE LOWER ONE-HALF OF THE PIPE DIAMETER.
- SMOOTH SLEEVE-TYPE COUPLERS AND FLAT BANDS MAY BE USED FOR PIPE DIAMETERS OF 12 INCHES OR LESS. USE A MATCHING METAL HAVING A NOMINAL THICKNESS OF NOT LESS THAT 0.040 INCH (20 GAGE) FOR STEEL, OR 0.036 INCH (20 GAGE) FOR ALUMINUM, OR A PLASTIC WITH AN EQUIVALENT STRENGTH TO METAL.

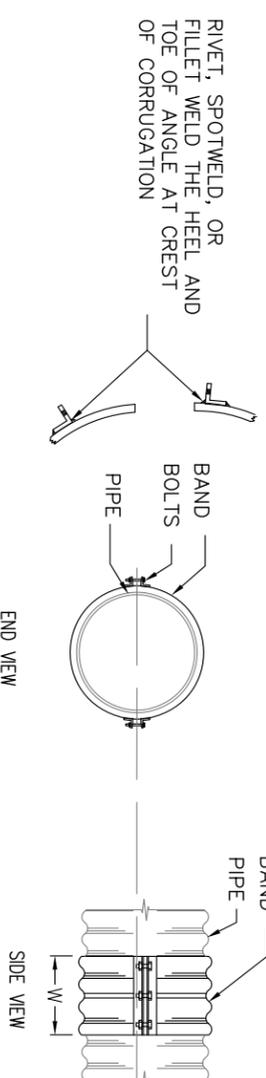
GAUGE NUMBER	EQUIVALENT CULVERT THICKNESS	
	STEEL	ALUMINUM
16	0.064	0.060
14	0.079	0.075
12	0.109	0.105
10	0.138	0.135
6	0.168	0.165



SEMI-CORRUGATED BAND



HELICAL BAND



ANNULAR BAND

DRAWINGS
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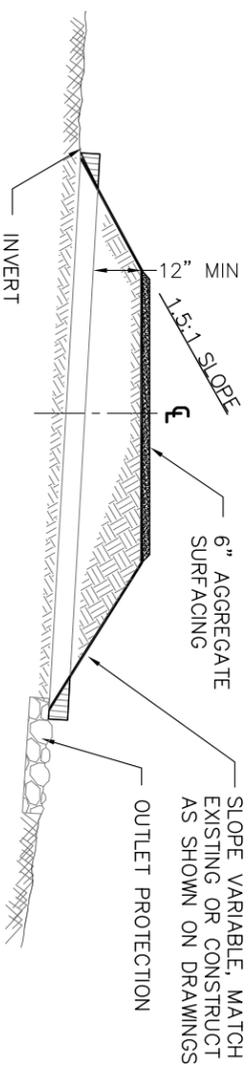
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FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

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National Forest
District: **POWERS RANGER DISTRICT**

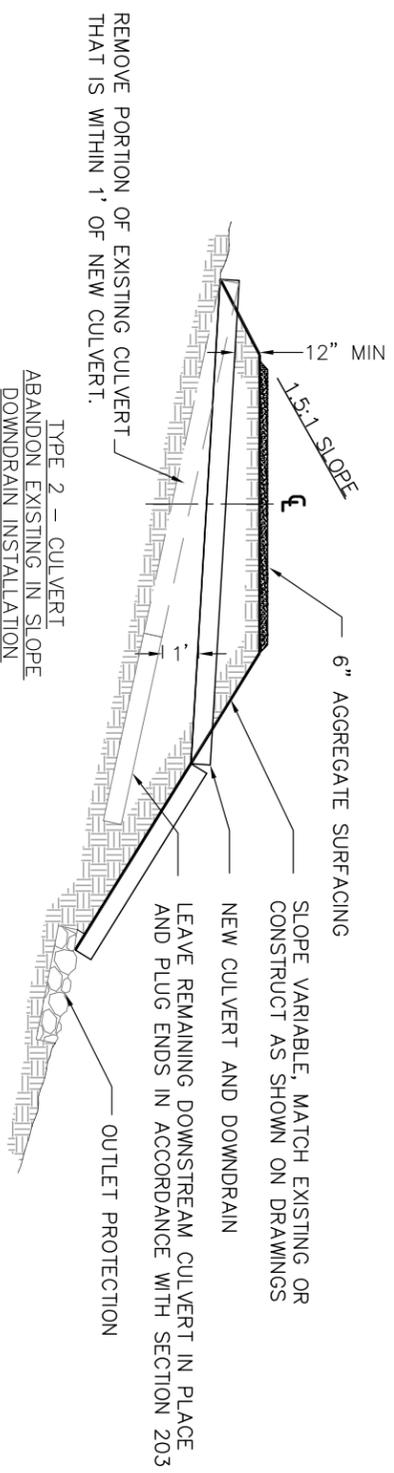
Design: **L. COOMBE**
Drawn: **D. SAMSON**
Checked: **D. TULEE**
Date: **11/2015**

Sheet Title: **COUPLING BANDS FOR METAL PIPE CULVERTS**
COAL CAMP TIMBER SALE

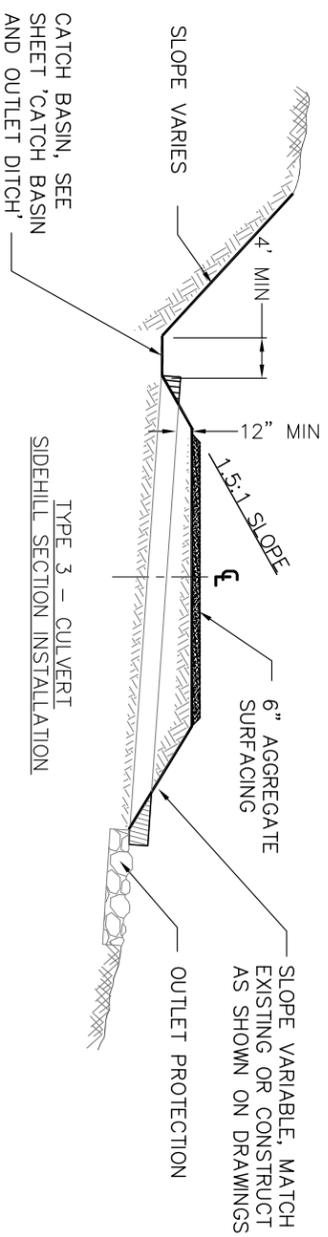
Project No: _____
Sheet **29** OF **34**



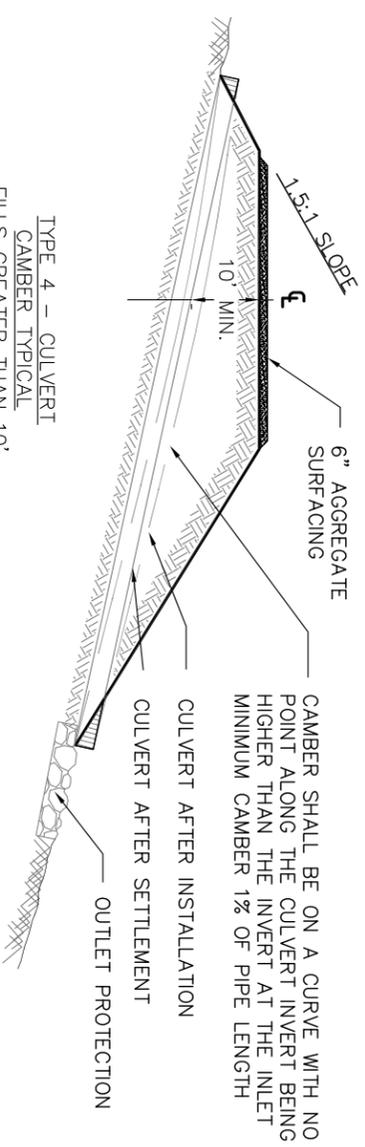
TYPE 1 - CULVERT
FILL SECTION INSTALLATION



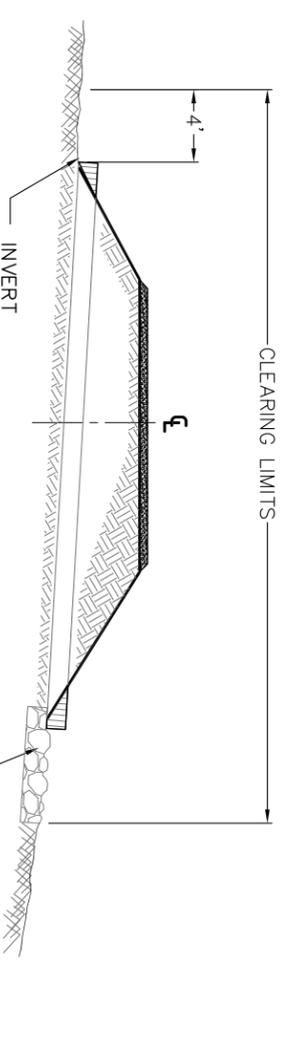
TYPE 2 - CULVERT
ABANDON EXISTING IN SLOPE
DOWN DRAIN INSTALLATION



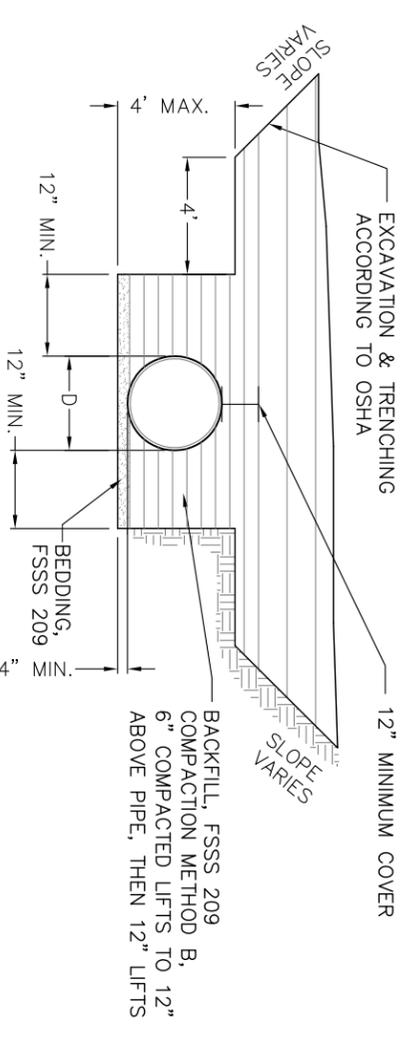
TYPE 3 - CULVERT
SIDEHILL SECTION INSTALLATION



TYPE 4 - CULVERT
CAMBER TYPICAL
FILLS GREATER THAN 10'



CLEARING LIMITS



TYPICAL CMP ROUND CULVERT SECTION

NOTES:

1. CLEAR AND GRUB IN ACCORDANCE WITH SECTION 201. SEE PAY ITEM 201 FOR DISPOSAL METHODS.
2. INSTALL NEW CULVERT ACCORDING TO SECTION 602. EXCAVATION, BEDDING, AND BACKFILL ARE INCIDENTAL TO ITEM 602 AND IN ACCORDANCE WITH SECTION 209. USE COMPACTION METHOD B FOR BACKFILL.
3. MATCH EXISTING ROAD WIDTH AND GRADE. IMPORT SELECT BORROW AS NEEDED.
4. PLACE CRUSHED AGGREGATE AT 6" DEPTH OVER CULVERT INSTALLATION FOR ROAD SURFACING. SALVAGE EXISTING ROAD AGGREGATE AND UTILIZE AS BASE ROCK.
5. PROVIDE FOR A 25' TRANSITION GRADE INTO INLET OF CULVERT. SEE SHEET 'CULVERT CATCH BASIN & OUTLET DITCH'.
6. ALL EXCAVATION AND TRENCHING OPERATIONS SHALL CONFORM TO OSHA REQUIREMENTS.
7. DO NOT OPERATE ANY HEAVY EQUIPMENT OVER ANY CULVERT UNTIL IT HAS BEEN PROPERLY BACK FILLED WITH A MINIMUM OF 1-FOOT COVER.
8. CULVERTS SHALL BE INSTALLED WITH A MINIMUM OF 8% SLOPE WHERE POSSIBLE.
9. THE MINIMUM LENGTH OF A SINGLE PIPE SECTION FOR ANY INSTALLATION SHALL NOT BE LESS THAN 10 L.F.
10. FIELD CUTTING OF CULVERT IS NOT PERMITTED UNLESS APPROVED BY THE CONTRACTING OFFICER.
11. REMOVE AND DISPOSE OF EXISTING CULVERT ACCORDING TO SECTION 203.

DRAWINGS
NOT TO SCALE



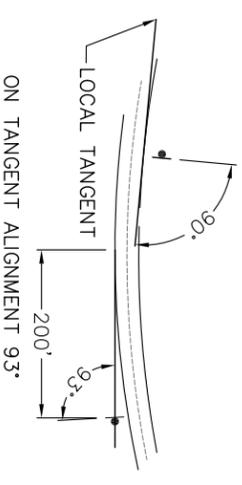
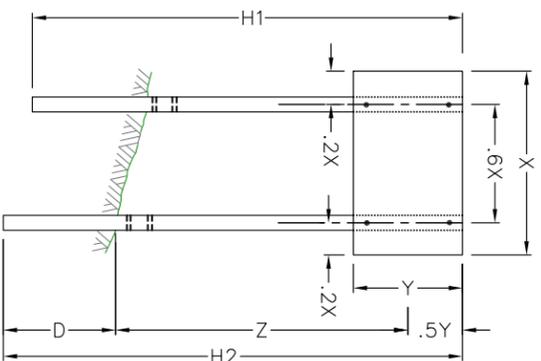
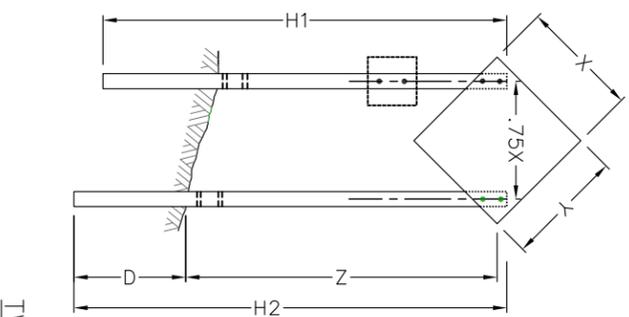
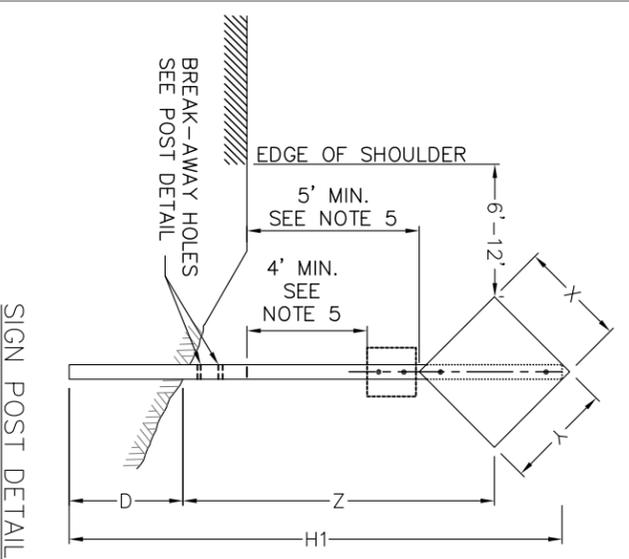
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Drawn: D. SAMSON
Checked: D. TULEE
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Sheet Title:
CULVERT INSTALLATION & BEDDING
COAL CAMP TIMBER SALE

Project No:
Sheet **30** OF **34**



DRAWINGS
NOT TO SCALE

WOOD POST SELECTION TABLE

SIGN SHAPE	X x Y	Z IS 10' OR LESS					Z IS GREATER THAN 10'				
		NUMBER OF POSTS	POST SIZE	D	HOLE SIZE	NOTCH DEPTH	NUMBER OF POSTS	POST SIZE	D	HOLE SIZE	NOTCH DEPTH
	30" X 30"	1	4" X 4"	36"	0	0	1	4" X 6"	48"	1 1/2"	0
	30" X 30"	1	4" X 4"	36"	0	0	1	4" X 6"	48"	1 1/2"	0
	36" X 36"	1 or 2	4" X 6" 4" X 4"	48" 36"	1 1/2" 0	0	1 or 2	4" X 6" 4" X 4"	48" 36"	1 1/2" 0	0
	48" X 48"	1	4" X 6"	48"	1 1/2"	0	1 or 2	6" X 8" 4" X 6"	48" 48"	3" 1 1/2"	0 1 3/4"
	60" X 30"	2	4" X 4"	36"	0	0	2	4" X 6"	48"	1 1/2"	1 3/4"
	78" X 42"	2	4" X 6"	48"	1 1/2"	1 3/4"	2	4" X 6"	48"	1 1/2"	1 3/4"
	96" X 48"	2	4" X 6"	48"	1 1/2"	1 3/4"	2	6" X 8"	48"	3"	2 1/4"

- NOTE:
1. ATTACH SIGN PANELS WITH A MINIMUM OF 2 - 1/4" DIA. BOLTS PER POST.
 2. MOUNT SIGNS SMALLER THAN LISTED ON A SINGLE 4" X 4" POST. FOR SIGNS NOT SHOWN, USE NEXT LARGEST SIZE.
 3. H1 AND H2 = OVERALL POST LENGTH. SELECT POST LENGTHS TO FIT FIELD CONDITIONS.
 4. D = POST EMBEDMENT DEPTH FOR AVERAGE SOIL CONDITIONS.
 5. WHEN PEDESTRIANS ARE PRESENT, OR IN AREAS WHERE THE VIEW IS OBSTRUCTED, USE 7' MINIMUM MOUNTING HEIGHT.
 6. USE TYPE III OR HIGHER TYPE SHEETING ON ALL SIGNS AND CHANNELIZING DEVICES. WARNING LIGHTS ARE NOT NORMALLY NEEDED ON DEVICES WITH TYPE III OR HIGHER TYPE SHEETING, BUT MAY BE BENEFICIAL TO ATTRACT THE DRIVERS ATTENTION IN FOG OR OTHER SPECIAL CONDITIONS. WHEN USED, APPLY THE APPROPRIATE TYPE OR WARNING LIGHT (TYPE A, B, C, OR D) PER THE MUTCD CHAPTER 6F.
 7. ENSURE ALL SIGN SUPPORTS EXPOSED TO IMPACT BY TRAFFIC MEET THE REQUIREMENTS OF NCHRP-350 FOR CRASH WORTHINESS.
 8. DO NOT STORE TRAFFIC CONTROL DEVICES ALONG THE ROADWAY WHEN NOT IN USE. COVER POST-MOUNTED SIGNS WHEN NOT APPLICABLE.
 9. STATE STANDARDS MAY BE USED AS AN ALTERNATIVE IF APPROVED BY THE CONTRACTING OFFICER.



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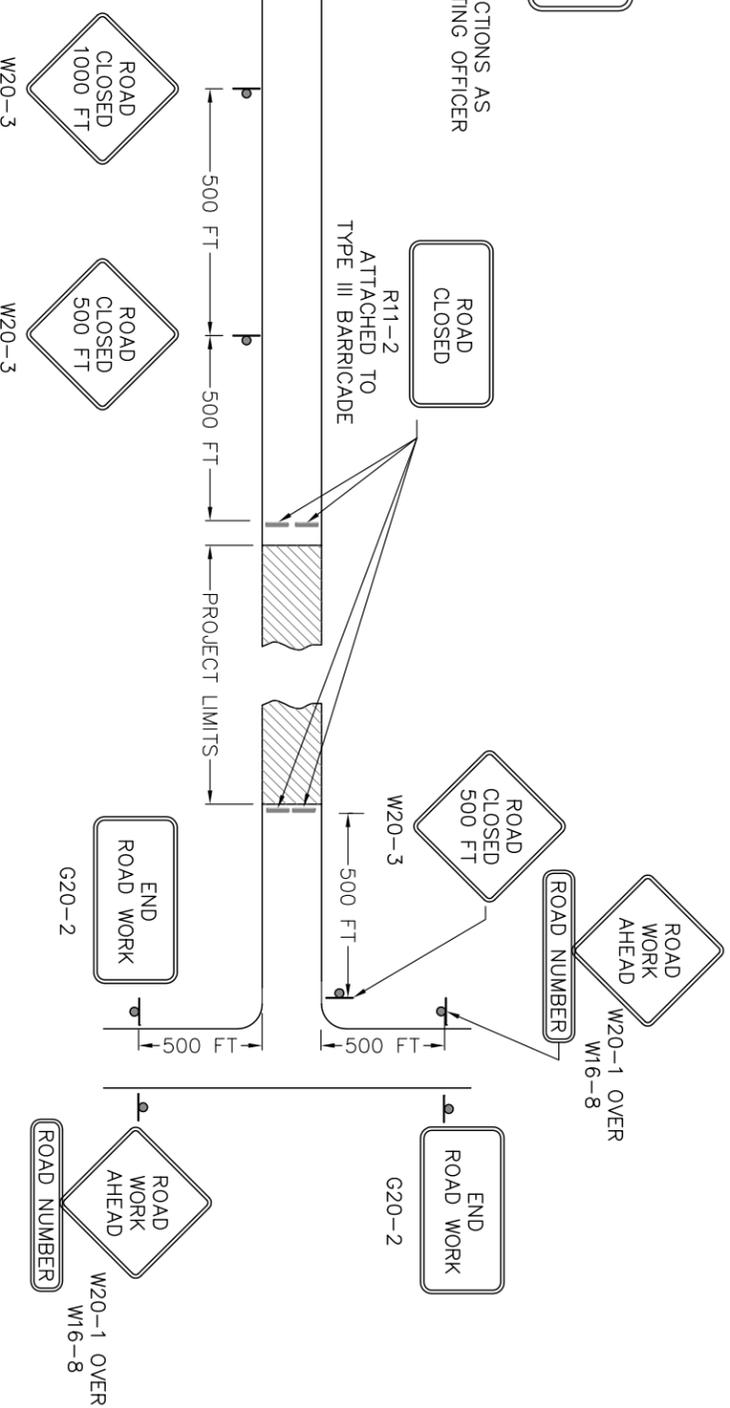
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Drawn: D. SAMSON
Checked: D. TULEE
Date: 11/2015

Sheet Title:
**TEMPORARY TRAFFIC CONTROL -
POST DETAIL**
COAL CAMP TIMBER SALE

Project No:
Sheet **33** OF **34**

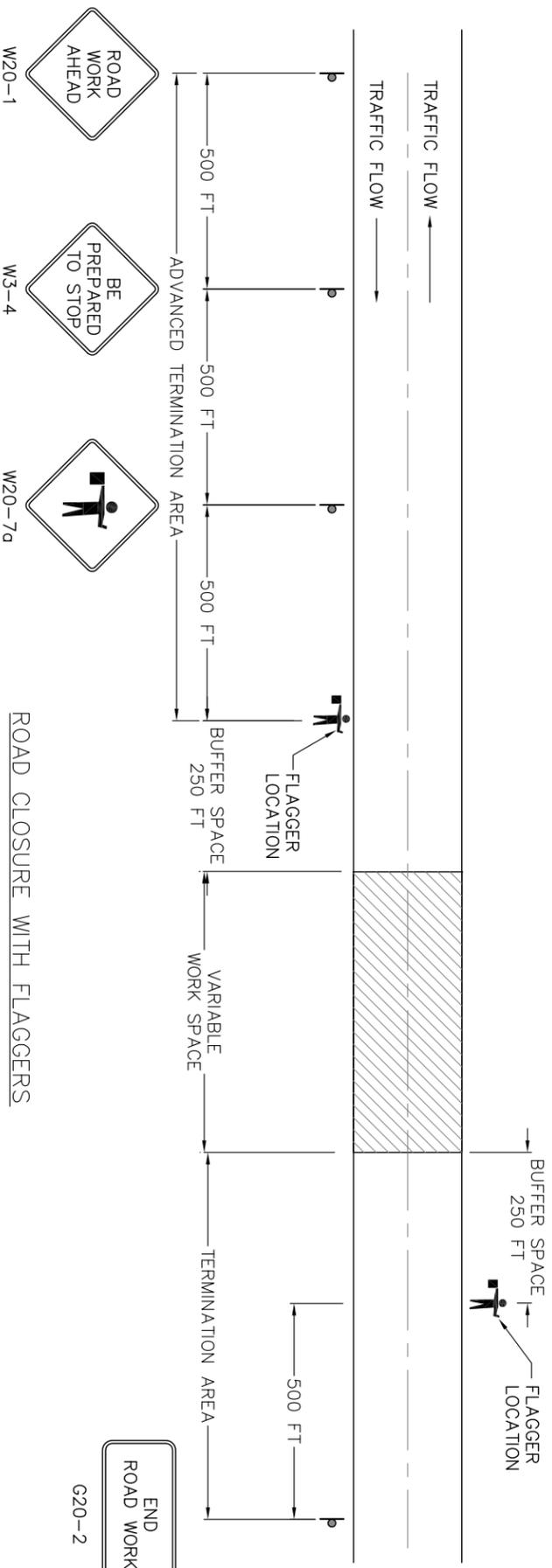
ROAD CLOSED
XX MILES AHEAD

R11-3
INSTALL AT ROAD INTERSECTIONS AS
DIRECTED BY THE CONTRACTING OFFICER



ROAD CLOSURE WITHOUT FLAGGERS

- NOTE
1. ERECT ALL ADVANCE WARNING SIGNS BEFORE STARTING CONSTRUCTION WORK.
 2. NOT ALL DETAILS SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS MAY BE APPLICABLE TO THIS PROJECT. THE CONTRACTOR MAY ADD OR DELETE INFORMATION AND DETAILS IN THIS TRAFFIC CONTROL PLAN AS NECESSARY TO ACCOMMODATE ACTUAL OPERATIONS WITH WRITTEN APPROVAL FROM THE CONTRACTING OFFICER.
 3. WHERE ADVANCE WARNING SIGNS, PLACED AS SHOWN, INTERFERE WITH PERMANENT SIGNS, LOCATE THE WARNING SIGNS AS DETERMINED BY THE CO FOR BEST RESULTS. VARY MESSAGES AS REQUIRED.
 4. ADDITIONAL OR DIFFERENT MESSAGE SIGNS MAY BE REQUIRED TO FIT THE ACTUAL CONSTRUCTION CONDITIONS.
 5. IF W20-1 IS ON A ROADWAY OTHER THAN THAT ON WHICH THE ACTUAL CONSTRUCTION WORK OCCURS, INCLUDE A SUPPLEMENTARY PLAQUE INDICATING THE NAME OF THE ROAD THE WORK IS ON.
 6. IF SIGNS WILL BE IN PLACE MORE THAN 72 CONSECUTIVE HOURS, USE GROUND-MOUNTED POSTS.



ROAD CLOSURE WITH FLAGGERS

- NOTE
1. SIGNS ARE SHOWN FOR ONE DIRECTION OF TRAVEL ONLY. PLACE DEVICES SIMILAR TO THOSE DEPICTED FOR THE OPPOSITE DIRECTION OF TRAVEL.
 2. FINAL LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE CHANGED TO FIT FIELD CONDITIONS AS APPROVED BY THE CO.
 3. FOR PILOT CAR OPERATION, MOUNT THE "PILOT CAR FOLLOW ME" (G20-4) SIGN AT A CONSPICUOUS LOCATION ON THE REAR OF VEHICLE. PROMINENTLY DISPLAY THE NAME OF THE CONTRACTOR ON THE PILOT CAR.
 4. FOR NIGHT TIME FLAGGING OPERATION, PROVIDE FLOODLIGHTING AT FLAGGER STATIONS PER OSHA REGULATIONS.
 5. DO NOT ALLOW EQUIPMENT, MATERIALS, OR VEHICLES TO BE PARKED OR STORED IN THE BUFFER SPACE.

DRAWINGS
NOT TO SCALE



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Date: 11/2015

Sheet Title:
TEMPORARY TRAFFIC CONTROL -
SINGLE LANE CLOSURE LAYOUT
COAL CAMP TIMBER SALE

Project No:
Sheet 34 OF 34