

ROAD PLAN
See Also Exhibit A and Exhibit C

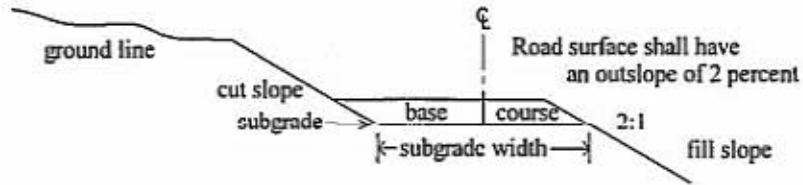
Type	Surface Width (ft)	Stations	Description	Approximate Length (ft)	Approximate Total Length (ft)	Stations	Distance (mi)
Dedicated Skid Road		6.57	On BLM only	656.59			
Dedicated Skid Road		1.40	On BLM only	140.08			
Dedicated Skid Road		4.07	On BLM only	406.72	1,922.53	19.23	0.36
Dedicated Skid Road		7.19	On BLM only	719.14			
Road Maintenance		21.52	Lone Ranch North Rd	2,151.74	2,151.74	21.52	0.41
Temp Road Reconstruction	12	16.27	On BLM only	1,627.19	1,627.19	16.27	0.31
Temp Road Construction	12	1.95	On BLM only	195.44			
Temp Road Construction	12	10.81	On BLM only	1,080.85			
Temp Road Construction	12	1.23	On BLM only	122.51			
Temp Road Construction	12	5.99	On BLM only	599.49	3,809.04	38.09	0.72
Temp Road Construction	12	9.72	On BLM only	971.84			
Temp Road Construction	12	4.85	On BLM only	485.22			
Temp Road Construction	12	3.54	On BLM only	353.68			
			Dedicated Skid Road		9,510.50	95.11	1.80
			Road Maintenance		7,587.97	75.88	1.44
			Temporary Road Reconstruction		17,098.47	170.98	3.24
			Temporary Road Construction		24,686.44	246.86	4.68

Road Reconstruction: The contract will require the purchaser to renovate approximately 1.29 miles of existing roads and trails. However, most road renovation can be accomplished during normal logging operations. Most of the road renovation could be accomplished by simple brushing and removal of small trees that have grown into existing roads.

Road Construction: The location and length of temporary roads, including skid roads may be adjusted at the time of contract implementation. All temporary roads on BLM land must be decommissioned. See also Exhibit G and attached Spec Sheets.

Road Maintenance: See Exhibit C

Specification Sheet



1. <u>Road Standard</u>	<u>SN-14</u>	_____	_____
2. <u>Alignment</u>			
Max. degree of curve	<u>75°</u>	_____	_____
3. <u>Road Width</u>			
Subgrade	<u>14 ft.</u>	_____ ft.	_____ ft.
Subgrade at turnout	<u>24 ft.</u>	_____ ft.	_____ ft.
4. <u>Gradient</u>			
Max. favorable	<u>15%</u>	_____	_____
Max. adverse	<u>15%</u>	_____	_____
5. <u>Clearing Width</u>			
Beyond top of cut	<u>3 ft.</u>	_____ ft.	_____ ft.
Beyond toe of fill	<u>0 ft.</u>	_____ ft.	_____ ft.
6. <u>Surfacing</u>			
Min. width	<u>12 ft.</u>	_____ ft.	_____ ft.
Compacted depth	<u>4 in.</u>	_____ in.	_____ in.

7. Full Bench Construction
Slopes 60% and over shall be full bench construction.

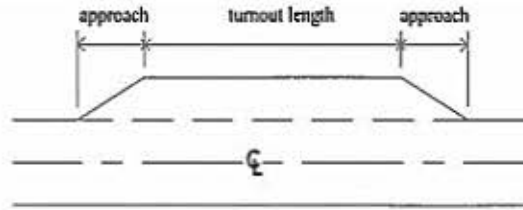
8. <u>Excavation Slopes</u>	<u>Cut Slopes</u>	<u>Fill Slopes</u>
Common	1:1	1½:1
Soft rock and shale	¾:1	1½:1
Solid rock	½:1	Angle of repose

9. Extra Subgrade Widths
Add to each fill shoulder 1 ft. for fills 1-6 ft., 2 ft. for fills over 6 ft.
Widen inside shoulder of all curves as follows:

Typical Turnout

When degree of curve equals:

- 7° - 21° - 1 ft.
- 22° - 35° - 2 ft.
- 36° - 48° - 3 ft.
- 49° - 64° - 4 ft.
- 65° - 115° - 5 ft.



10. Turnouts

Standard length: 50 ft, approach length: 25 ft.

Width: 10 ft. in addition to subgrade width.

Location: intervisible or not over 700 ft. apart.

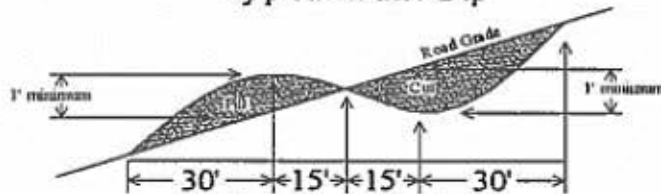
Surfacing width: 10 ft. in addition to min. surface widths.

Water Dip Specifications

(For Roads with Grades Greater Than 8 Percent)



Typical Water Dip



Cross Section View

WATER DIP SPECIFICATIONS		
SOIL TYPE		SOIL TYPE

ROAD GRADE IN %	SOIL TYPE			ROAD GRADE IN %	SOIL TYPE	
	GRANITIC OR SANDY	SHALE OR GRAVEL			GRANITIC OR SANDY	SHALE OR GRAVEL
1	1000	1000		9	300	900
2	900	1000		10	300	800
3	600	1000		11	300	700
4	400	1000		12	300	700
5	400	1000		13	300	600
6	300	1000		14	300	600
7	300	1000		15	300	500
8	300	900				

