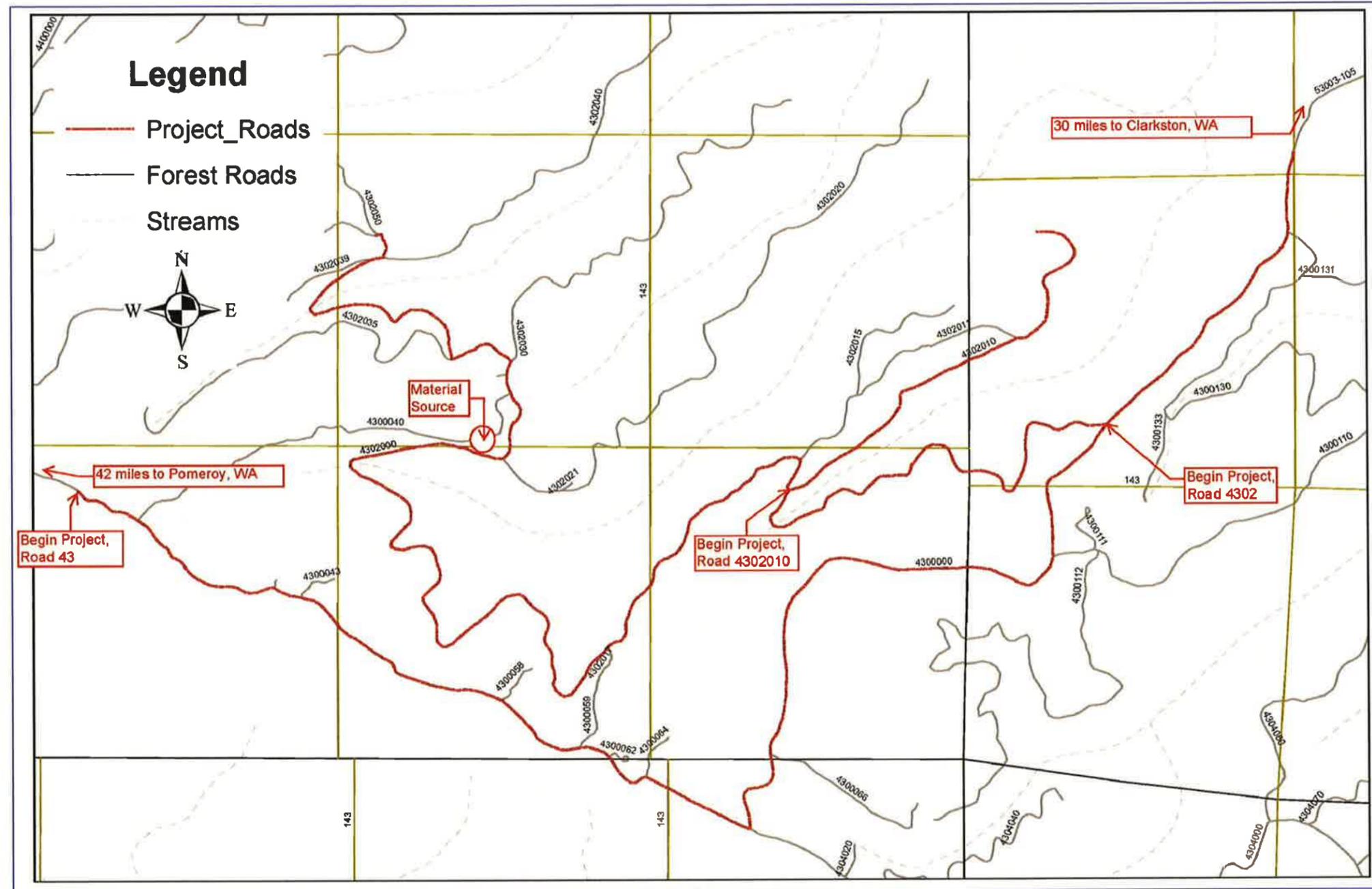


VICINITY MAP SOUTH PARK TIMBER SALE

ROAD NUMBER	SHEET	TOTAL SHEETS
ALL	2	12



DIRECTIONS:

From Clarkston, WA:

1. Take WA Highway 129 South towards Asotin, WA - approx. 6 miles.
2. Turn right onto Asotin Creek Road/Baumcister Drive; proceed west on Asotin Creek Road to junction left with Cloverland Road - 3 miles
3. Turn onto Cloverland Road; proceed south to Cloverland, WA - 11 miles
4. Follow Cloverland Road through community of Cloverland to Umatilla National Forest boundary/Forest Road 43 - approximately 10 miles.

From Pomeroy, WA:

1. At junction US Highway 12 & 15th Street, travel south on 15th Street approximately 0.25 miles; 15th Street becomes Peola Road. Proceed ahead to junction of Mountain Road - 8 miles
2. Continue south on Mountain Road to Umatilla National Forest boundary - 7 miles
3. Continue south on Mountain Road/Forest Road 40 to junction Forest Road 44 - 23 miles.
4. Continue ahead on Forest Road 44 to junction Forest Road 43 at Wickiup Campground - 3 miles
5. Continue ahead on Forest Road 43 for approximately 1.24 miles to Beginning of Project.

MATERIAL SOURCE:

1. Material Source for project is located on Rd 4302, approximately 5 miles from Rd 43.

WATER SOURCE

1. No separate payment for water
2. Designated Water Source is on Rd 4400010 MP 0.54

DISPOSAL

1. See Worklists for Waste Disposal site locations: Upon request, Contracting Officer may approve disposal at other locations.
2. Prior to Final Inspection, all Disposal sites shall be recontoured to match existing contours and blend with surrounding area.
3. Removed culverts become property of Contractor and shall be removed from Government Land.

OVERLOAD/OVERWIDTH HAUL PERMITS

1. Permit required for overload and overwidth haul across all Forest Service bridges.
2. Overload permits require Regional Bridge Engineer approval. See FP-03 supplemental 104.03 and Umatilla National Forest Road Use rules. See website below for current Umatilla NF Road Use Rules.

<http://www.fs.usda.gov/main/umatilla/passes-permits/other>

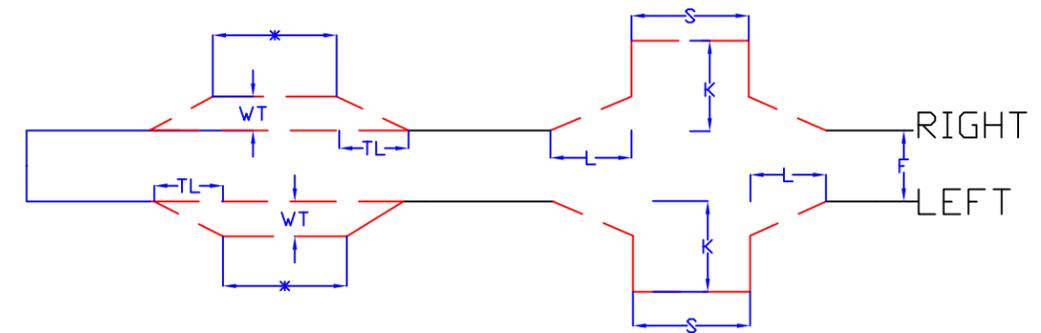
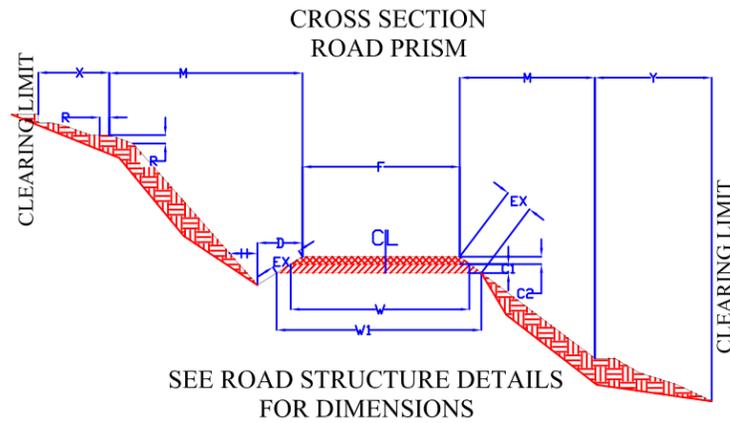
SOUTH PARK TIMBER SALE			<u>Sheet 3 of 12</u>				
POMEROY RANGER DISTRICT			ESTIMATE OF QUANTITIES				
UMATILLA NATIONAL FOREST			ROAD NO. -->	4300000 Cloverland	4302000 Hogback	4302010	REMARKS
			MILES -->	5.86	6.55	1.47	
ITEM NO.	DESCRIPTION	REVISION	UNIT OF MEASURE				
15101	Mobilization	2005	LUMP SUM	-	ALL	-	Equipment washing for noxious weed control is incidental to this pay item.
20103	Clearing & grubbing, disposal of tops & limbs <u>F</u> , logs <u>F</u> , stumps <u>F</u>	2010	MILE	5.86	6.55	-	
20156	Clearing & grubbing, disposal of tops & limbs <u>F</u> , logs <u>F</u> , stumps <u>FLUSH CUT</u>	20123	MILE	-	-	1.47	Special Clearing requirements: See CLEARING & GRUBBING TYPICAL Sheet 5
20257	Selective Clearing, fall & dispose of Marked DANGER TREES; disposal of tops and limbs <u>F</u> , logs <u>SEE NOTE</u>	2011	EACH	1	-	7	Deck TREES meeting Timber Sale Utilization standard according to FSSS 203.05. Fall and leave TREES not meeting utilization standard or designated FALL & LEAVE on Worklist.
20301	Removal <u>CULVERTS</u>	2005	EACH	-	1	-	Culverts to be removed become property of Contractor and shall be removed from Government Land.
20420	Drainage excavation, type <u>DRAIN DIP</u>	2005	EACH	-	8	-	See DRAIN DIP TYPICAL Sheet 6. Unless otherwise stated in WORKLISTS, all excavated material shall be hauled to a Designated Waste Area. Work includes final reshaping of Designated Waste Area(s) used.
20701	Subgrade Treatment, <u>SEPARATION</u>	2005	LUMP SUM	-	-	ALL	Estimated 430 SQYD of separation geotextile (Government Furnished Material) and 300 CY (in hauling vehicle) of pit run aggregate, 6" minus. Production, haul, placement, shaping, and compaction of Cover Material is incidental to this pay item.
30322	Road reconditioning, compaction method <u>GRID ROLL</u>	2005	MILE	5.86	6.55	-	Roadway reconditioning includes Lead out ditches AS STAKED on ground and identified in WORKLISTS.
32226	Grid Rolled pit run maximum size <u>6"</u> , compaction method <u>H</u>	2005	CY (In Hauling Vehicle)	-	1600	-	Production, haul, placement, shaping, and compaction of Grid rolled Aggregate as identified in PLANS.
65102	Pit and quarry development	2005	LUMP SUM	-	ALL	-	Material source is located on Road 4302 MP 4.75. Pit Development Plan required.

ROAD STRUCTURE TYPICALS & DETAILS

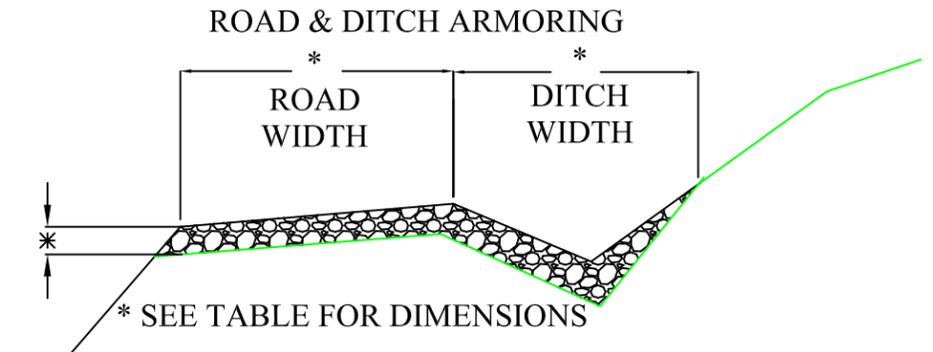
SOUTH PARK TIMBER SALE

ROAD NUMBER ALL	SHEET 4	TOTAL SHEETS 12
---------------------------	-------------------	---------------------------

PLAN VIEW TURNOUT(S) & TURN-AROUND(S)



*EXISTING TURNOUT LENGTH, OR
AS IDENTIFIED ON WORKLIST(S) OR PLANS.



ROAD NUMBER	SEGMENT	STATION TO STATION (Mile Post)		CLEARING WHICHEVER IS GREATER			CONSTRUCTION TOLERANCE	EX = EXISTING O = OUTSLOPE I = INSLOPE C = CROWN	ROADBED WIDTH		DITCH DIMENSIONS		TURNOUT Width & Taper		TURNAROUND WIDTH, TAPER, LENGTH			TRAVELED WAY WIDTH	GRADING	
		MILEPOST		M - Min. beyond shoulder	BEYOND SLOPE STAKE X	Y			W (Base)	WI (Sub grade)	D	H	WT	TL	K	L	S		F	Base = C1
43 CLOVERLAND		1.24	7.1	4	N/A	N/A	C	EX = EXISTING,	16	EX	3	1	10	EX	EX	EX	EX	12	See Note 8	-
4302 HOGBACK		0.00	6.55	4	N/A	N/A	C	EX = EXISTING,	14	EX	3	1	10	25	30	25	20	12	See Note 8	-
4302010 SHORT RIDGE		0.00	1.47	4 (Special Clearing See Sheet 5)	N/A	N/A	D	EX = EXISTING,	14	EX	3	1	10	EX	EX	EX	EX	12	See Note 8	-

CONSTRUCTION NOTES:

- 1 ROAD STRUCTURE DETAILS above references ROAD STRUCTURE TYPICALS. Mileages and/or Stations as shown on Plans, or identified on Worklists are approximate.
- 2 Unless otherwise noted on WORKLIST(S), Turnout width and transition length listed on Road Structure Details above.. Unless noted on WORKLIST(S), turnout length is as exists on ground.
- 3 Unless otherwise noted on PLANS or Worklists, ditch dimensions (D & H) in table above apply to existing ditches on project roads. Not all roads are ditched and some roads have ditched segments on both sides of road.
- 4 Placement of aggregate shall be down existing Centerline for control. Unless otherwise noted, turnouts, tapers, and curve widening (constructed and existing) shall be rocked to same depth as Traveled Way.
- 5 Watering shall be incidental to all applicable pay items.
- 6 Construction Tolerances apply to work done under Section 204.
- 7 Transition distance for aggregate depth at beginning and end of project or segment shall be 20 feet.
- 8 See individual Work lists for depth and placement of Item 32226.

ROAD NUMBER STATION OR MILEPOST	SUBGRADE TREATMENT - ITEM 32226					SLOPE PROTECTION		REMARKS
	ROAD WIDTH	DITCH WIDTH	ROAD OR DITCH LENGTH	COMPACTED DEPTH	CY IN HAULING VEHICLE	W	S	
	FEET	FEET	FEET	INCH		FEET	INCH	
4302 - HOGBACK								
MP 3.58	12	-	100	12	70	-	-	Sediment protection for perennial stream. From Station - Center of Draw place road armoring 50 ft ahead and 50 ft back.
MP 4.47	12	-	100	12	70	-	-	Sediment protection for perennial stream. From Station - Center of Draw place road armoring 50 ft ahead and 50 ft back.
MP 5.98	12	-	100	12	70	-	-	Sediment protection for perennial stream. From Station - Center of Draw place road armoring 50 ft ahead and 50 ft back.
MP 6.2	12	-	100	12	70	-	-	Sediment protection for perennial stream. From Station - Center of Draw place road armoring 50 ft ahead and 50 ft back.

CONSTRUCTION NOTES:

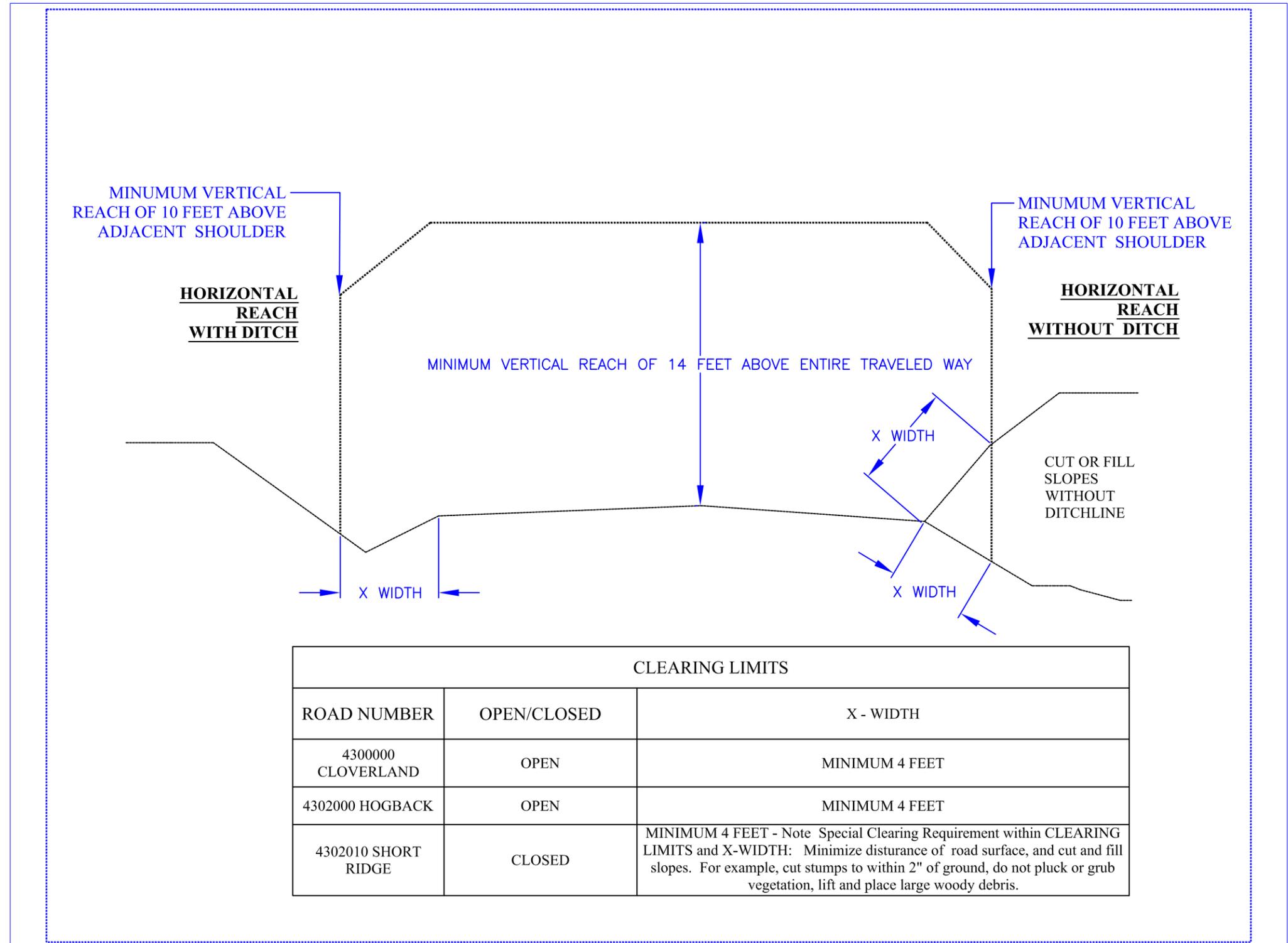
1. Oversized aggregate NOT broken down by grid rolling shall be removed from the traveled way.

CLEARING & GRUBBING TYPICAL

SOUTH PARK TIMBER SALE

CONSTRUCTION NOTES

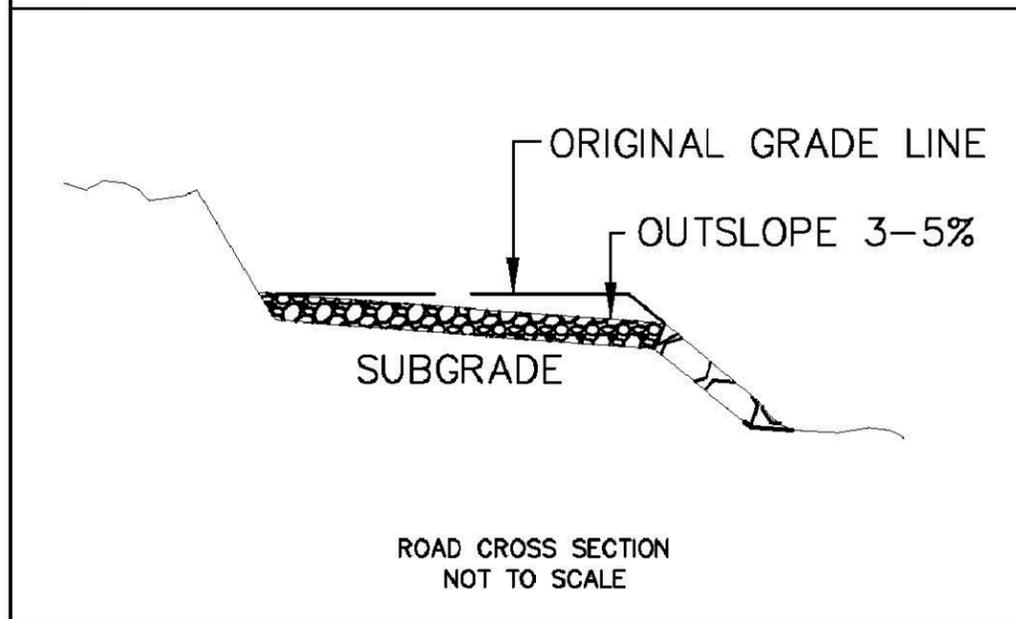
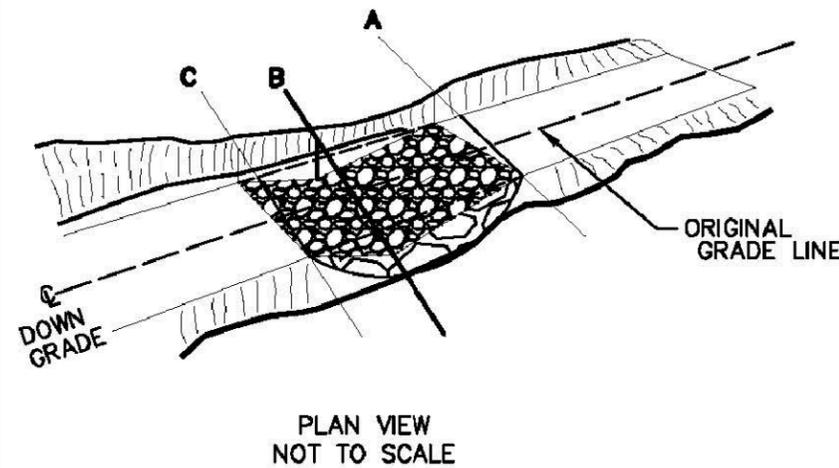
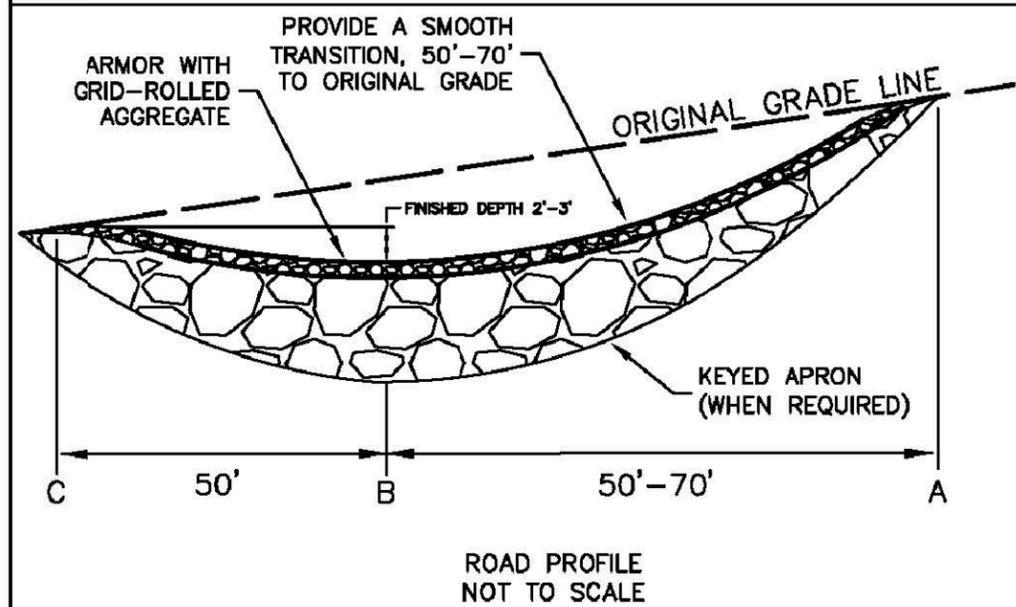
1. Deck LOGS meeting Timber Sale utilization standards. Decking locations shall be flagged on the ground.
2. Debris shall not be scattered on adjacent roadways or trails, on top of fences, or in locations that will disrupt drainage functions.
3. Unless otherwise stated on PLANS, upon completion of CLEARING, all live and dead vegetation including stumps shall be completely removed from Traveled Way and no more than 6 inches above the ground within the remaining cleared area (X WIDTH).
4. Exception to #3: Due to obstructions, including but not limited to signs, rocks, and stumps, up to 18 inches of vegetation may remain above ground within X-WIDTH.



CLEARING LIMITS		
ROAD NUMBER	OPEN/CLOSED	X - WIDTH
4300000 CLOVERLAND	OPEN	MINIMUM 4 FEET
4302000 HOGBACK	OPEN	MINIMUM 4 FEET
4302010 SHORT RIDGE	CLOSED	MINIMUM 4 FEET - Note Special Clearing Requirement within CLEARING LIMITS and X-WIDTH: Minimize disturbance of road surface, and cut and fill slopes. For example, cut stumps to within 2" of ground, do not pluck or grub vegetation, lift and place large woody debris.

DRAIN DIP TYPICAL
SOUTH PARK TIMBER SALE

DRAIN DIP



Armor full width of dip with pit-run rock (see PLANS or Work List(s) for quantity), grid-rolled to a thickness of not less than 1 foot at low point. Taper thickness at each end to provide a uniform transition through the dip.

When required, key in clean pit-run rock (see PLANS or Work Lists for quantity) to form an apron to dissipate outflow and protect the fill slope.

CONSTRUCTION NOTES

1. Invert of the Drain Dip shall be smooth, free draining and outsloped.
2. Tie Grid Rolled Aggregate armoring to ditch line and/or toe of cut slope.
3. After placement and compaction of Grid Rolled Aggregate, the vertical difference between the low point of the Dip and the original grade line shall be 2 to 3 feet.
4. Length of Drain Dip shall be adjusted to provide a smooth transition through the grade sag.
5. Dispose of excavated material to create Drain Dip (dimensions A-C) as listed in PLANS or Worklist(s).
6. Compaction of subgrade required prior to placing Item 32226 Grid-rolled Aggregate.
7. Oversized aggregate NOT broken down by grid rolling shall be removed from the travel way.

General Construction Notes

1. Mileposts, Miles, and Stations shown on PLANS or identified on Work Lists are approximate.
2. Transition distance between varying Traveled Way widths shall be 25 feet.
3. Contractor responsible for all work required to access Project Roads including but not limited to removal of berms, and log out of access roads.

Watering & Water Supply

1. No separate payment shall be made for water. Water for compaction, reconditioning and/or other uses as required is incidental to the Pay Item.
2. Fish screens required on inlet suction hoses.

Clearing & Grubbing

1. Deck LOGS meeting Utilization standards according to Timber Sale Contract.

Excavation & Embankment

1. Unless otherwise shown on PLANS, TYPICALS, or DETAILS:
 - a. Back slopes = 1:1 in loose rock and soil, and 4:1 in solid rock.
 - b. Fill slopes = 1:2
 - c. FP-03 slope notation is Vertical/Horizontal.
2. Excess and/or unsuitable excavated material:
 - a. Excess and/or unsuitable material shall be hauled to Designated Waste area: Sites are identified on Work Lists. Contracting Officer may approve additional sites on ground.
 - b. Excess and/or unsuitable material shall not be placed within 50 feet of any culvert, ditch, channel, or live stream.
 - c. Cleanup of Designated Waste areas: Designated Waste areas shall be contoured to blend with surrounding ground and to drain. No separate payment shall be made for Designated Waste Area site clean-up.

Aggregate. Surface, base and subgrade reinforcement

1. Transition distance for aggregate depths at beginning and end of project or segment shall be 10 feet of length per 6 inches of depth. (For example, 8" of depth/6" = 1.33 x 10' minimum 13 feet transition from 0 depth to full depth.)

Development of Pits & Quarries

1. Mineral Source excavation limits shall be staked on the ground
2. Pit Development plan required.

ROAD 43 Cloverland	
MILEPOST	DESCRIPTION & WORK ITEMS
0.00	Junction Forest Road 43 & Forest Road 44; Wickiup Campground left
1.24	Begin Project, Road 43 Begin CLEARING & grubbing Begin RECONDITIONING of Travel way and shoulders, existing turnouts, tapers, curve widening, and ditches. Note: Expectation is that road (existing turnout and tapers, shoulders and ditches) will be reconditioned. Therefore, these individual elements will not be individually staked for reconditioning.
1.75	Spur left - Corner of Units 55 and 52
2.0	Noxious weed treatment tag right
2.08	Existing culvert
2.15	Existing culvert
2.2	Open existing Lead out ditch right
2.23	Existing culvert (plugged)
2.26	Spurs left closed by berms.
3.0	Junction left, Rd 4300059
3.05	Wenatchee Creek Trail right
3.1	Junction left, Road 4300062 to Wenatchee Guard Station/rental cabin
3.3	Junction left, Road 4300063
3.35	Reshape and open Lead out ditch right.

WORKLISTS
SOUTH PARK TIMBER SALE

3.5	Reshape and open Lead out ditch right
3.64	Reshape existing Lead out ditch right.
3.68	Cattle guard and bypass left.
3.69	Junction Forest Roads 43 & 4304: Road 43 continues left, Road 4304 begins ahead.
3.81	Draw with existing culvert: Abandoned road bed left: Note: Snow groomer trail left.
3.89	Existing culvert
3.96	Spur right with berm:
3.98	Junction right, Road 4300066 Existing culvert:
4.00	Fence with wire gate left
5.14	Existing Grade Sag
5.43	Junction right, 4300110 Insure Lead out of ditch line is open and draining Fall and Leave, Hazard Tree, 1 left: (painted #72)
5.5	Existing culvert:
5.83	Existing culvert, plugged
5.94	Junction Forest Road 4302 Re-establish ditch drainage from Road 43 to Road 4302 and into cattle guard: clean out Lead out ditch from cattle guard
6.48	Existing culvert
6.6	Existing culvert

6.7	Re-open Lead out ditch left
6.75	Spur with berm right:
6.8	Junction right, Road 4300130
6.82 - 6.93	Cloverland Snowpark
7.03	Existing culvert (plugged):
7.1	Cattle guard End Clearing End Reconditioning End Project

WORKLISTS
SOUTH PARK TIMBER SALE

ROAD 4302 HOGBACK	
Milepost	Description of Work
0.00	Begin Project, Road 4302 Hogback Begin CLEARING & grubbing, Begin RECONDITIONING of Travel way and shoulders, existing turnouts, tapers, curve widening, and ditches. Note: Expectation is that road (existing turnout and tapers, shoulders and ditches) will be reconditioned. Therefore, these individual elements will not be individually staked for reconditioning.
0.01	Cattle guard w/bypass
0.03	Metal Gate
0.49	Spur with berm left:
0.50	Swale/wet area with existing 18" metal culvert
0.62	Spur with berm left:
0.70	Existing Grade Sag
1.09	Existing culvert:
1.43	Corner Unit 54 & 60 Spur with berm left:
1.46	Draw with existing culvert
1.57	Junction right, Road 4302010 Short Ridge
1.68	Junction right, Rd 4302011 Skid/ATV trail right:
2.15	Existing Grade Sag

2.31	Firewood cutter trail left
2.77	Wenatchee Barn trail left
3.14	Old landing right: WASTE AREA for Drain Dip excavation
3.19	Existing Grade Sag
3.30	Existing Grade Sag
3.57	Existing 18" metal culvert: Remove & dispose of off Forest Land: Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate
3.58	Draw with perennial stream - On roadbed, place and compact 100 ft. long x 12 ft. wide x 1 ft. compacted depth aggregate apron centered on culvert
3.65	Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate
4.10	Draw with existing metal culvert: (not to be removed)
4.16	Existing Grade Sag:
4.4	Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate
4.47	Deep draw with perennial stream - On roadbed, place and compact 100 ft. long x 12 ft. wide x 1 ft. compacted depth aggregate apron centered on culvert Clean inlet: Remove blowdown/woody debris blocking culvert inlet. Scatter removed debris on outlet side or place on inlet side and stabilize so they will not roll back into the creek bottom. Large woody debris on banks and in stream that are over 20 ft. from inlet may be left in place.
4.50	Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate

WORKLISTS
SOUTH PARK TIMBER SALE

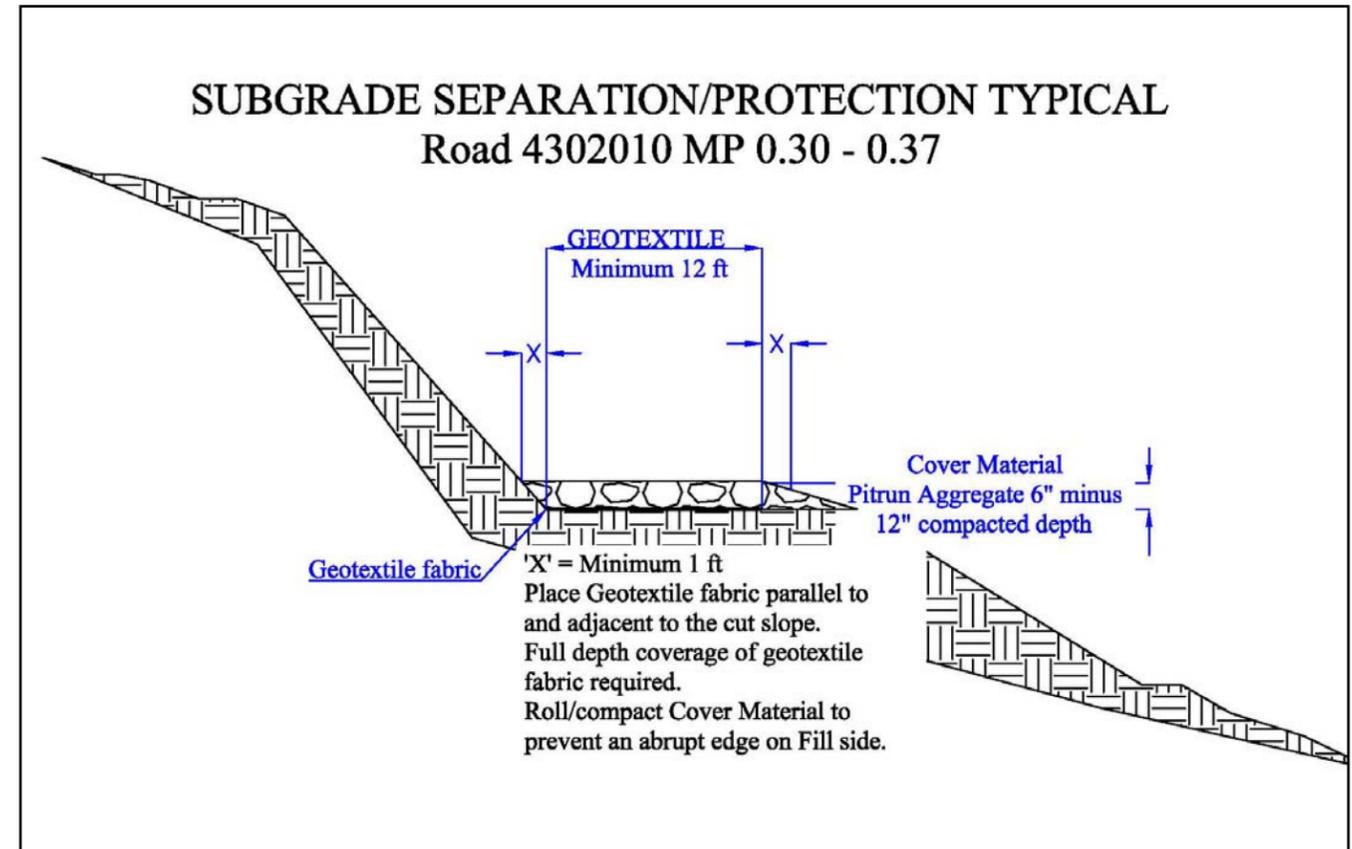
4.75	Material Source and access road left.
4.93	Existing metal culvert (do not remove)
5.00	Junction right, Road 4300020
5.10	Disposal sites left and right for excess excavation from Drain Dip construction.
5.34	Junction right, Road 4302030
5.54	Junction left, Road 4302035
5.92	Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate
5.96	Draw with perennial stream - On roadbed, place and compact 100 ft. long x 12 ft. wide x 1 ft. compacted depth aggregate apron centered on culvert
6.0	Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate
6.1	Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate
6.2	Draw with perennial stream - On roadbed, place and compact 100 ft. long x 12 ft. wide x 1 ft. compacted depth aggregate apron centered on culvert
6.30	Construct DRAIN DIP: Place and compact 60 CY (in Hauling Vehicle) Item 32226 Grid Rolled Aggregate
6.5	Junction right, Road 4302040
6.55	Junction right, Road 4302050 End Clearing End Reconditioning End Project

ROAD 4302010 Short Ridge

CONSTRUCTION NOTES for Road 4302010:

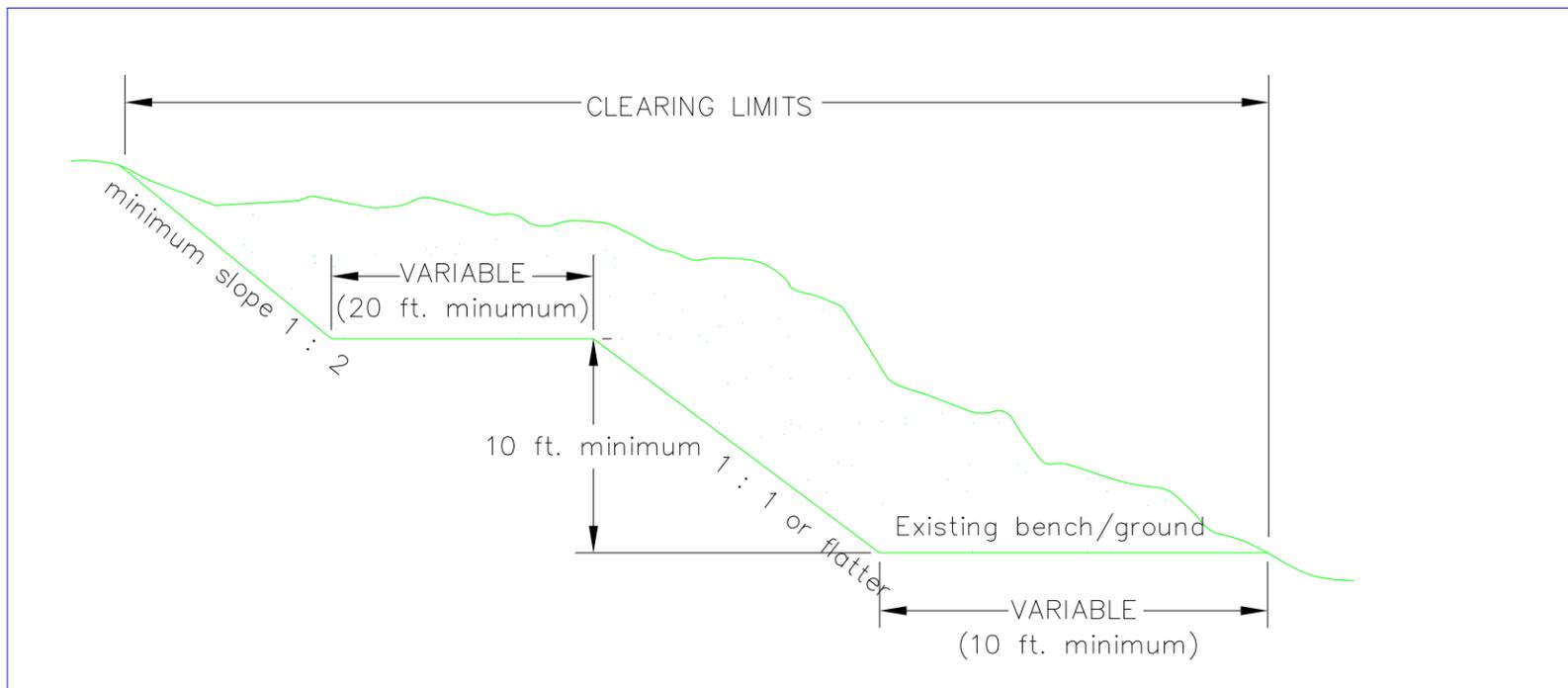
1. See CLEARING Typical Sheet 5: Special Clearing to minimize disturbance to road and cut and fill slopes.
2. Trucks will need to back in from Rd 4302 to place Cover Material for Item 20701.

MILEPOST	DESCRIPTION & WORK ITEMS
0.00	Begin Project, Road 4302010 Begin Clearing, Item 20156
0.01	Metal Gate
0.07	Fall & Leave, Hazard Trees 1 Left, 2 right
0.11	Fall & leave, Hazard Trees: 4 Left
0.30	Begin Subgrade Protection: See Typical <ul style="list-style-type: none"> • Place Geotextile (Government Furnished Material) for subgrade separation/protection according to Section 207 Earthwork Geotextiles. Begin Placement as staked on ground. • Begin end dumping of cover material – Pit run Aggregate, 6” minus.
0.37	End Subgrade Protection
1.45	End Clearing End Project



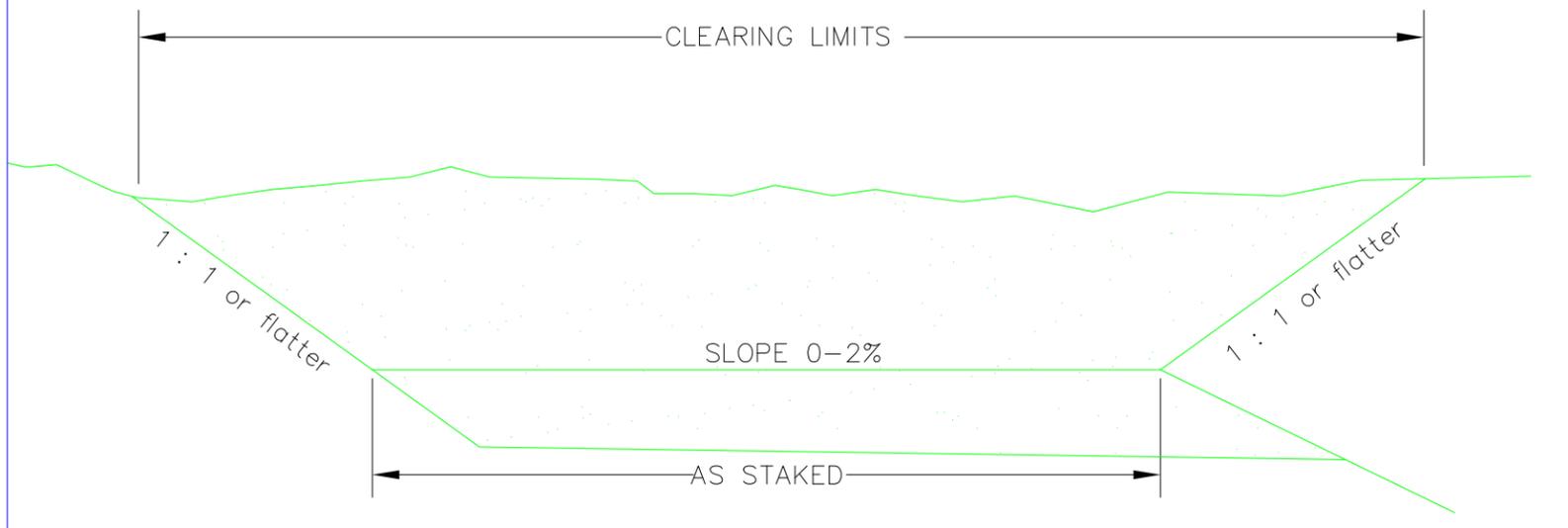
MATERIAL SOURCE TYPICALS

SOUTH PARK TIMBER SALE



OTHER AREAS

No Scale



AGGREGATE & BORROW SOURCES

SOURCE	LOCATION	ROAD NUMBER	MATERIAL
1	SEC 26 T 08N, R43E	4302000 MP 4.75	ITEM 32226 GRID ROLLED PIT RUN, MAX. SIZE 6"

CONSTRUCTION NOTES

1. Pit clearing and development limits will be staked on the ground by the Contracting Officer.
2. Pit Development Plan required; all Pit development work is incidental to Item 65101 Pit & Quarry Development.
 - 2.1. Clearing, grubbing, slash removal, and disposal methods shall be in accordance with FP-03 Section 201 and supplementals: Disposal methods are TOPS & LIMBS - Piling; LOGS - deck according to FSSS 201.04; STUMPS - Piling.
 - 2.2. Access Road(s) shall be cleared and reconditioned in accordance with Section 204.
3. Pit rehab includes the following:
 - 3.1. Drainage (dips and/or waterbars) shall be re-established on Access Road(s)
 - 3.2. If pit excavation drops level of pit below that of Road 4302, push up a berm approximately 4 ft. x 4 ft parallel to Rd 4302 the length of the pit.
 - 3.3. Material Source slopes shall be left as shown on TYPICAL, or flatter.