



TIMBER NOTICE OF SALE

SALE NAME: STEARN LOOK

AGREEMENT NO: 30-106072

AUCTION: October 31, 2024 starting at 10:00 a.m., COUNTY: Lewis Pacific Cascade Region Office, Castle Rock, WA

SALE LOCATION: Sale located approximately 5 miles northwest of Adna, WA

PRODUCTS SOLD AND SALE AREA: All timber, except leave trees bound by yellow "Leave Tree Area" tags, leave trees marked with blue paint, and all down timber existing 5 years prior to the day of sale, all downed timber greater than 40 inches diameter and snags bounded by the following:

Unit 1, white "Timber Sale Boundary" tags with pink flagging, pink flagging, and the D-7200 road;

Unit 2, white "Timber Sale Boundary" tags with pink flagging, pink flagging, and the D-7000 road;

Unit 3, white "Timber Sale Boundary" tags with pink flagging, pink flagging, the D-7100 road, and D-7115 road;

All forest products above located on part(s) of Sections 25 and 36 all in Township 14 North, Range 4 West, W.M., containing 69 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

Table with columns: Species, Avg DBH, Ring Count, Total MBF, MBF by Grade (1P, 2P, 3P, SM, 1S, 2S, 3S, 4S, UT). Rows include Douglas fir, Redcedar, and Sale Total.

MINIMUM BID: \$1,317,000.00 BID METHOD: Sealed Bids

PERFORMANCE SECURITY: \$100,000.00 SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2026 ALLOCATION: Export Restricted

BID DEPOSIT: \$131,700.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Shovel, Track skidder, and Cable. This sale is estimated to be 90 percent ground based and 10 percent cable harvest systems. Ground-based harvesting equipment shall be restricted to sustained slopes of 40 percent and less, self-leveling ground based yarding equipment will not be permitted on sustained slopes over 60 percent, and 6 wheeled skidder with tracks similar to ECO-TRACKS™, will not be permitted on sustained slopes over 40 percent. Track Skidder for pole removal only. See H-140 for further details.



TIMBER NOTICE OF SALE

ROADS: 164.70 stations of required prehaul maintenance.

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the D-7000 Stockpile and D-7100 Stockpile both located in Section 25, T14N, R4W, W.M. on state land at no charge to the Purchaser. Purchaser shall not remove additional yardage without prior written approval from the Contract Administrator. See Road Plan for further details.

ACREAGE DETERMINATION

CRUISE METHOD: The sale acres were determined by GPS. The sale area was cruised using a variable plot cruise method.

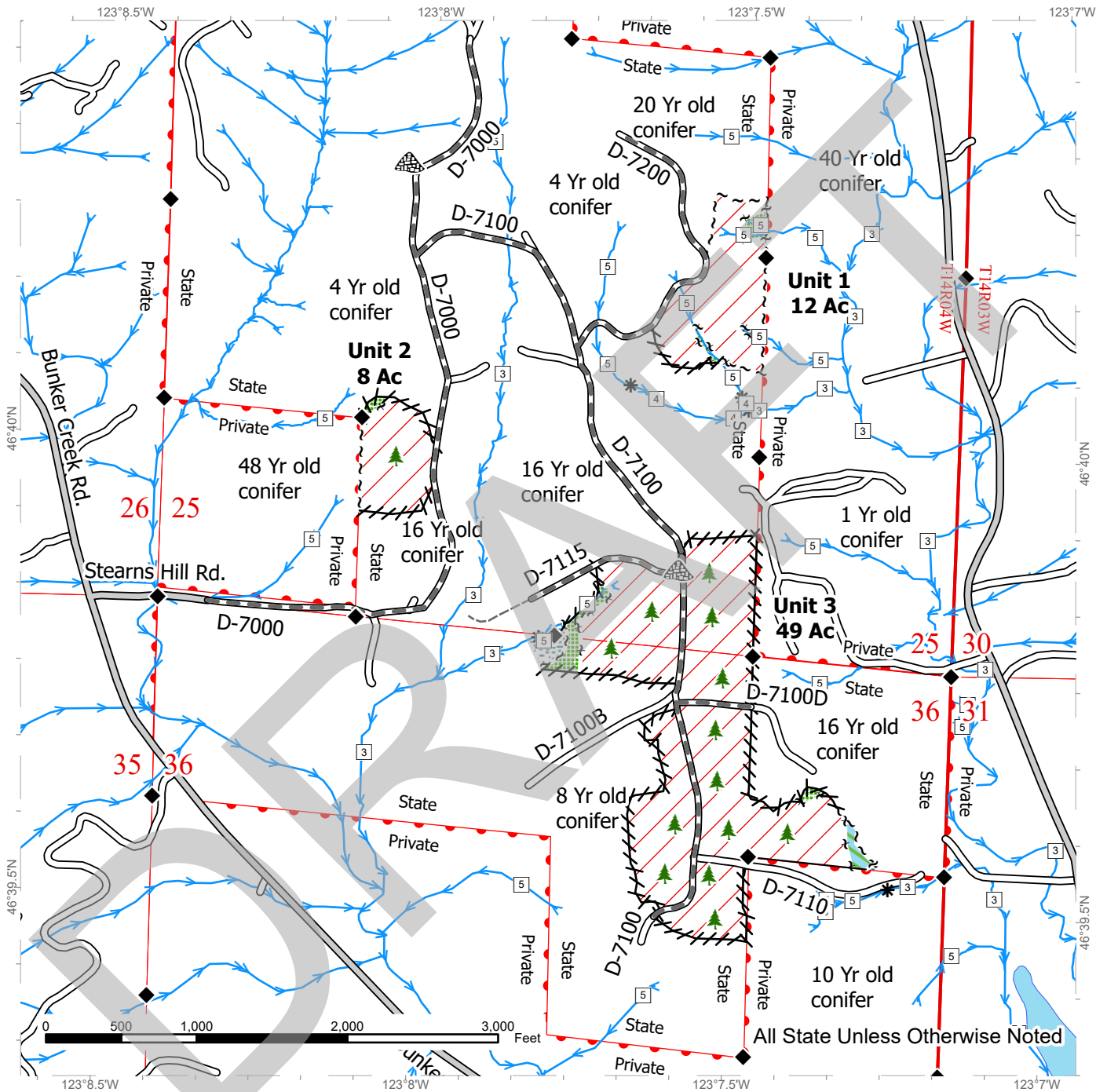
FEES: \$51,646.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Estimated 241 MBF SM DF, 491 MBF HQ 2 Saw DF, 133 MBF HQ 3 Saw DF and 41 MBF Pole Quality DF. See cruise for further details.

TIMBER SALE MAP

SALE NAME: STEARN LOOK
AGREEMENT #: 30-106072
TOWNSHIP(S): T14R4W
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Lewis
ELEVATION RGE: 315-533



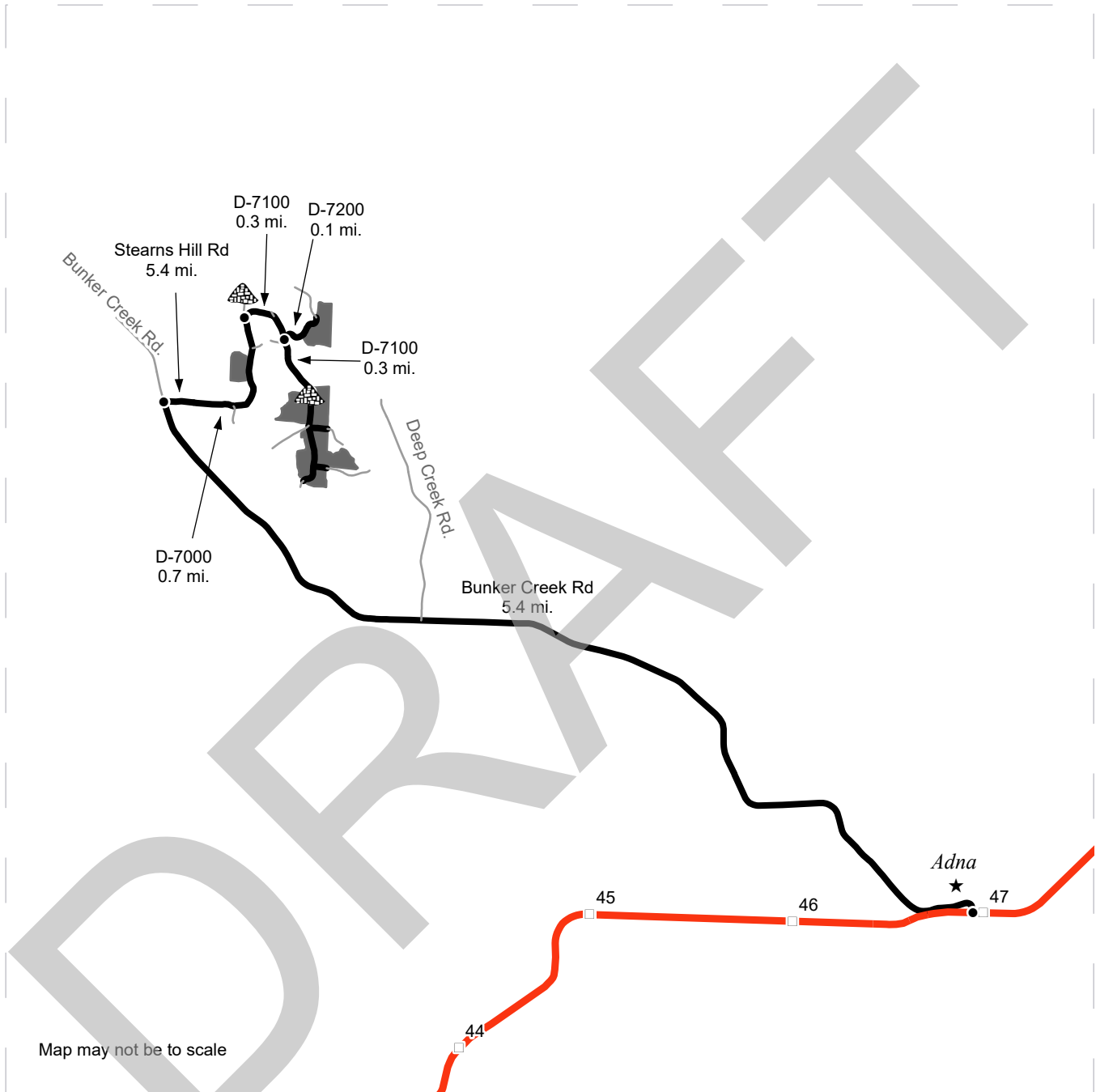
Variable Retention Harvest	Timber Type Change	Streams
Leave Tree Area	County Road	Stream Type
Riparian Mgt Zone	Existing Roads	Stream Type Break
Non-Tradeable Leave Tree Area	Required Pre-Haul Maintenance	Leave Tree Area <1/4-acre
Sale Boundary Tags	Old Grades/Trails	Stockpile
Leave Tree Tags		Survey Monument
Flag Line		



DRIVING MAP

SALE NAME: STEARN LOOK
AGREEMENT#: 30-106072
TOWNSHIP(S): T14R4W
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Lewis
ELEVATION RGE: 315-533



Map may not be to scale

	Timber Sale Unit
	Highway
	Haul Route
	Other Road
	Milepost Markers
	Distance Indicator
	Stockpile

DRIVING DIRECTIONS:

From I-5, head west on Highway 6 (exit 77) for approximately 4 miles.
 Between milepost 46 and 47, turn right onto Bunker Creek Rd and continue for 5.4 miles.
 Turn right onto Stearns Hill Rd after 0.1 miles, continue through the gate (PCP1-1).
 For Unit 2 travel along the D-7000 0.4 miles and the unit will be on the left.
 For Units 1 and 3 continue through the gate onto the D-7000 road for 0.7 miles, then turn right onto the D-7100.
 Travel down the D-7100 for 0.3 miles until the D-7100/D-7200 intersection. For Unit 1 turn left onto the D-7200 and continue 0.1 miles. The unit is on the right.
 For Unit 3 continue straight on the D-7100 for 0.3 miles to arrive at the unit.



Timber Sale Cruise Report STEARN LOOK

Sale Name: STEARN LOOK

Sale Type: LUMP SUM

Region: PACIFIC CASC

District: LEWIS

Lead Cruiser: Blake Warnstadt

Other Cruisers: DBuchanan

Cruise Narrative:

Location: The STEARN LOOK timber sale is located 5 miles northwest of Adna. It can be accessed by taking Bunker Creek RD 5.4 miles to Stearn Hill RD. All three stands are less than a mile from the gate. The road is in good condition and capable of hauling longer loads.

Cruise Design: All stands were cruised using a variable radius plots at a ratio of 1 plot per acre. Conifers were cruised to 40 foot preferred log lengths.

Unit 1- Cruised with a 46.44 BAF with a cruise to count plot ratio of 2:1. DF dominated with a trace amount of RA. The DF is in good condition with a lot of HQB. Spike knots were the most dominant recorded defect but overall not a lot of damage seen through out the stand. Well stocked and uniform.

Unit 2- Cruised with a 40 BAF with all plots being measured. DF has an average diameter of 18.5" at 4.5 feet. Spike knots were the dominant defect recorded but overall not a lot of damage seen through out the stand. There is a possibility of harvesting a some Poles in Unit 2.

Unit 3- Cruised with a 54.94 BAF sighted at 4.5 feet. Plots were measured with a cruise to count plot ratio of 1:1. Unit 3 consist of three different age classes. The North half is the older component with the south half being a few years younger. DF has an average DBH of 19.2" at DBH.

Timber Quality: This sale is DF dominant. Unit 3 has a small amount of RC and a trace amount of GF. Unit 3 has some gaps throughout with little observed root disease. DF for this sale has an average diameter of 18.8 and is a mix of regular domestic and high quality A and B sorts. There are a few Poles available throughout.

Logging and Stand Conditions: All stands are generally flat and estimated to be 90% shovel logged with 10% uphill cable.

General Remarks:

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade					
				All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	18.8	7.0		3,005	241	1,673	904	166	21
RC	17.2			33			25	7	
ALL	18.6	7.0		3,038	241	1,673	929	173	21

Timber Sale Notice Weight (tons)

Sp	Tons by Grade					
	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	20,827	1,381	10,724	7,144	1,420	158
RC	295			215	80	
ALL	21,121	1,381	10,724	7,359	1,500	158

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
233.5	4.1	188.4	2.6	44,023	4.9

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
STEARN LOOK U1	B1C: VR, 1 BAF (46.94) Measure/ Count Plots, Sighting Ht = 4.5 ft	12.0	13.6	14	9	0
STEARN LOOK U2	B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	8.0	7.7	8	8	0
STEARN LOOK U3	B1C: VR, 1 BAF (54.44) Measure/ Count Plots, Sighting Ht = 4.5 ft	49.0	54.9	51	27	0
All		69.0	76.2	73	44	0

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	16.4	40	17,271	16,530	4.3	7,288.5	1,140.6
DF	LIVE	2 SAW	HQ-A	14.3	40	1,158	1,154	0.3	512.6	79.6
DF	LIVE	2 SAW	HQ-B	15.0	40	6,114	5,962	2.5	2,653.6	411.4
DF	LIVE	2 SAW	Pole	15.0	40	600	600	0.0	268.9	41.4
DF	LIVE	3 SAW	Domestic	8.8	39	11,014	10,621	3.6	5,933.8	732.8
DF	LIVE	3 SAW	HQ-B	10.5	40	1,967	1,929	1.9	948.6	133.1
DF	LIVE	3 SAW	Pole	10.5	40	554	554	0.0	261.4	38.2
DF	LIVE	4 SAW	Domestic	5.6	30	2,425	2,403	0.9	1,419.9	165.8
DF	LIVE	CULL	Cull	6.5	6	251	0	100.0	0.0	0.0
DF	LIVE	SPECIAL MILL	HQ-A	19.1	40	3,504	3,500	0.1	1,381.2	241.5
DF	LIVE	UTILITY	Pulp	6.7	13	301	298	1.1	157.9	20.6
RC	LIVE	3 SAW	Domestic	12.2	37	392	367	6.2	215.1	25.3
RC	LIVE	4 SAW	Domestic	5.4	30	105	105	0.0	79.8	7.2

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
RC	LIVE	CULL	Cull	8.8	2	0	0	100.0	0.0	0.0

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 7	LIVE	Cull	5.5	6	0	100.0	0.0	0.0
DF	5 - 7	LIVE	Pulp	5.9	13	201	1.6	101.3	13.9
DF	5 - 7	LIVE	Domestic	6.1	33	5,112	1.9	3,080.6	352.7
DF	8 - 11	LIVE	Cull	9.1	7	0	100.0	0.0	0.0
DF	8 - 11	LIVE	Pulp	9.2	14	80	0.0	49.2	5.5
DF	8 - 11	LIVE	Domestic	9.8	39	7,912	3.8	4,273.0	545.9
DF	8 - 11	LIVE	Pole	10.5	40	554	0.0	261.4	38.2
DF	8 - 11	LIVE	HQ-B	10.6	40	1,929	1.9	948.6	133.1
DF	12 - 15	LIVE	Cull	12.5	10	0	100.0	0.0	0.0
DF	12 - 15	LIVE	Pulp	12.6	12	17	0.0	7.4	1.2
DF	12 - 15	LIVE	Pole	13.2	40	234	0.0	115.4	16.2
DF	12 - 15	LIVE	Domestic	13.6	40	6,585	3.5	3,300.1	454.3
DF	12 - 15	LIVE	HQ-B	13.8	40	3,943	2.7	1,839.2	272.1
DF	12 - 15	LIVE	HQ-A	14.4	40	1,603	0.5	733.0	110.6
DF	16+	LIVE	Pole	17.4	40	366	0.0	153.5	25.3
DF	16+	LIVE	HQ-B	18.0	40	2,019	2.0	814.4	139.3
DF	16+	LIVE	Domestic	19.5	40	9,946	4.8	3,988.4	686.3
DF	16+	LIVE	HQ-A	20.0	40	3,051	0.0	1,160.8	210.5
RC	5 - 7	LIVE	Domestic	5.5	30	119	0.0	88.6	8.2
RC	8 - 11	LIVE	Cull	8.8	2	0	100.0	0.0	0.0
RC	8 - 11	LIVE	Domestic	8.8	32	27	0.0	18.5	1.8
RC	12 - 15	LIVE	Domestic	14.1	40	250	6.8	148.7	17.3
RC	16+	LIVE	Domestic	18.5	40	76	7.5	39.1	5.2

Cruise Unit Report STEARN LOOK U1

Unit Sale Notice Volume (MBF): STEARN LOOK U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	16.8	7.0		427	180	210	34	2
ALL	16.8	7.0		427	180	210	34	2

Unit Cruise Design: STEARN LOOK U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	12.0	13.6	14	9	0

Unit Cruise Summary: STEARN LOOK U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	44	70	5.0	1
ALL	44	70	5.0	1

Unit Cruise Statistics: STEARN LOOK U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	234.7	35.9	9.6	151.5	14.1	2.1	35,547	38.6	9.8
ALL	234.7	35.9	9.6	151.5	14.1	2.1	35,547	38.6	9.8

Unit Summary: STEARN LOOK U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	44	ALL	16.8	85	110	36,578	35,547	2.8	152.5	234.7	57.3	426.6
ALL	LIVE	CUT	44	ALL	16.8	85	110	36,578	35,547	2.8	152.5	234.7	57.3	426.6
ALL	ALL	ALL	44	ALL	16.8	85	110	36,578	35,547	2.8	152.5	234.7	57.3	426.6

Cruise Unit Report STEARN LOOK U2

Unit Sale Notice Volume (MBF): STEARN LOOK U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade					
				All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	18.5	7.0		301	33	148	106	13	2
ALL	18.5	7.0		301	33	148	106	13	2

Unit Cruise Design: STEARN LOOK U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	8.0	7.7	8	8	0

Unit Cruise Summary: STEARN LOOK U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	42	42	5.3	1
ALL	42	42	5.3	1

Unit Cruise Statistics: STEARN LOOK U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	210.0	31.8	11.2	179.0	19.5	3.0	37,593	37.3	11.6
ALL	210.0	31.8	11.2	179.0	19.5	3.0	37,593	37.3	11.6

Unit Summary: STEARN LOOK U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	42	ALL	18.5	94	121	39,532	37,593	4.9	112.5	210.0	48.8	300.7
ALL	LIVE	CUT	42	ALL	18.5	94	121	39,532	37,593	4.9	112.5	210.0	48.8	300.7
ALL	ALL	ALL	42	ALL	18.5	94	121	39,532	37,593	4.9	112.5	210.0	48.8	300.7

Cruise Unit Report STEARN LOOK U3

Unit Sale Notice Volume (MBF): STEARN LOOK U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade					
				All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	19.2	7.0		2,278	209	1,345	589	118	16
RC	17.2			33			25	7	
ALL	19.0	7.0		2,310	209	1,345	614	126	16

Unit Cruise Design: STEARN LOOK U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	49.0	54.9	51	27	0

Unit Cruise Summary: STEARN LOOK U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	123	214	4.2	1
RC	8	8	0.2	0
ALL	131	222	4.4	1

Unit Cruise Statistics: STEARN LOOK U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	228.4	35.4	5.0	203.5	35.5	3.2	46,484	50.1	5.9
RC	8.5	321.9	45.1	77.9	43.6	15.4	665	324.8	47.6
ALL	237.0	35.5	5.0	199.0	38.5	3.4	47,149	52.4	6.0

Unit Summary: STEARN LOOK U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	123	ALL	19.2	89	118	48,178	46,484	3.5	113.6	228.4	52.1	2,277.7
RC	LIVE	CUT	8	ALL	17.2	44	55	700	665	5.0	5.3	8.5	2.1	32.6
ALL	LIVE	CUT	131	ALL	19.1	87	116	48,878	47,149	3.5	118.9	237.0	54.2	2,310.3
ALL	ALL	ALL	131	ALL	19.1	87	116	48,878	47,149	3.5	118.9	237.0	54.2	2,310.3

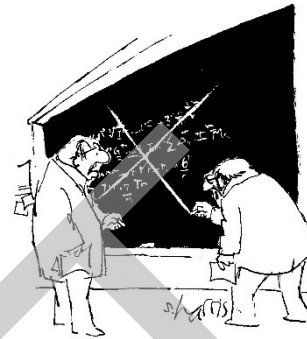
FPHP NEEDED (Y/N) Y

Is abandonment of existing road required? (Y/N) N

PACIFIC CASCADE REGION - ENGINEERING

ROAD PLAN PEER REVIEW CHECKLIST

PROJECT: STEARN LOOK



This project has been reviewed for the following:

Initials:

- OC **CONTRACT CLAUSES** – Selection of proper clauses. Clauses adequately describe desired work. Clauses do not conflict with maps, details, pit plans, etc. Punctuation, syntax, grammar and organization is correct.
- OC **TYPICAL SECTION SHEET, ROCK LIST, & CULVERT LIST** – Sheets match clauses and maps. Requirements and quantities make sense. Rock List adds up correctly.
- OC **MAPS** – All roads listed in Section 1 are shown on maps. Maps identify locations of all culverts, landings, waste areas, endhaul/overhaul areas, etc. Legend, north arrow and scale are shown. Line types are easy to identify. Map is at a legible scale.
- OC **DETAIL SHEETS** – All detail sheets referred to in the clauses are included. Detail sheets have been edited as necessary.
- N/A **PIT PLANS** – Selection of proper clauses. Map clearly shows all areas of development, wasting, stockpiling, reclamation, etc. Development plan appears logical for long term use of pit. Development plan allows for safe operation in the pit.
- OC **ROAD COST SPREADSHEET** –All cost elements captured. Material costs used are current. Summary cells are adding correctly. No conflicts exist between pages. Stationing, culverts and rock volume match the road plan.
- OC **EXCISE TAX SHEET** – Totals match road plan.
- OC **LOGGING PLAN** – Plan matches road plan clauses and maps.

I certify that I have reviewed this project for the elements initialed above and have found that it meets or exceeds Department and Regional Standards to the best of my knowledge.

RICH WALLMOW

Originator of Project

12/08/2023

Date

REVIEWED

By Olivia Cantwell at 5:03 pm, Dec 19, 2023

Peer Reviewer

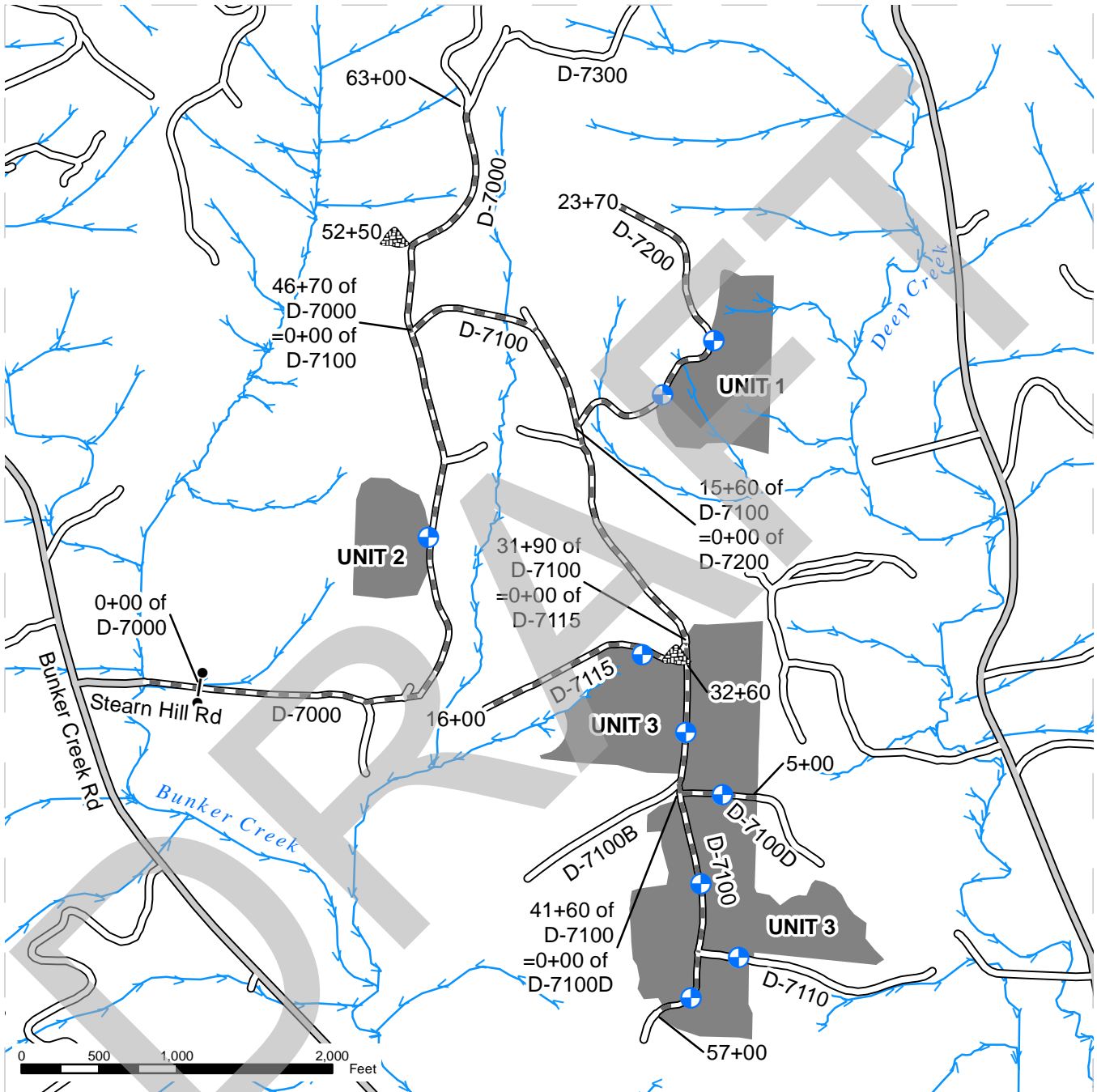
Date

Comments:

ROAD PLAN MAP

SALE NAME: STEARN LOOK
AGREEMENT#: 30-106072
TOWNSHIP(S): T14R4W
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Lewis
ELEVATION RGE: 315-533



County Road	Gate (PCP 1-1)	Harvest Unit
Existing Roads	Landing - Proposed	Streams
Required Pre-Haul Maintenance	Stockpile	



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
STEARN LOOK TIMBER SALE ROAD PLAN
LEWIS COUNTY
LEWIS DISTRICT
PACIFIC CASCADE REGION

AGREEMENT NO.: 30-106072

STAFF ENGINEER: RICH WALLMOW

DRAWN & COMPILED BY: ALICIA COMPTON

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

Clauses in this road plan apply to all road related work, including landings, unless otherwise noted.

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
D-7000	0+00 to 63+00	Pre-haul Maintenance
D-7100	0+00 to 57+00	Pre-haul Maintenance
D-7200	0+00 to 23+70	Pre-haul Maintenance
D-7115	0+00 to 16+00	Pre-haul Maintenance
D-7100D	0+00 to 5+00	Pre-haul Maintenance

0-6 PRE-HAUL MAINTENANCE

This project includes, but is not limited to the following pre-haul maintenance requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
D-7000	0+00 to 63+00	Brushing. Grade and shape existing road surface prior to application of rock; apply rock in accordance with the Rock List; grade, shape and compact after rock application.
D-7100	0+00 to 57+00	Brushing. Grade and shape existing road surface prior to application of rock; apply rock in accordance with the Rock List; grade, shape and compact after rock application.

0-6 PRE-HAUL MAINTENANCE CONT

This project includes, but is not limited to the following pre-haul maintenance requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
D-7200	0+00 to 23+70	Brushing; clean ditch and culverts in accordance with clause 2-6 and 2-7. Grade and shape existing road surface prior to application of rock; apply rock in accordance with the Rock List; grade, shape and compact after rock application.
D-7115	0+00 to 16+00	Brushing. Grade and shape existing road surface prior to application of rock; apply rock in accordance with the Rock List; grade, shape and compact after rock application.
D-7100D	0+00 to 5+00	Brushing.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for the submitted plan.

1-2 UNFORESEEN CONDITIONS

Quantities established in this road plan are minimum acceptable values. Additional quantities required by the state due to unforeseen conditions, or Purchaser's choice of construction season or techniques will be at the Purchaser's expense. Unforeseen conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

1-3 ROAD DIMENSIONS

Purchaser shall perform road work in accordance with the dimensions shown on the TYPICAL SECTION SHEET and the specifications within this road plan, unless controlled by construction stakes or design data (plan, profile, and cross-sections).

1-4 ROAD TOLERANCES

Purchaser shall perform road work within the tolerances listed below. The tolerance class for each road is listed on the TYPICAL SECTION SHEET.

<u>Tolerance Class</u>	<u>A</u>	<u>B</u>	<u>C</u>
Road and Subgrade Width (feet)	+1.5	+1.5	+2.0
Subgrade Elevation (feet +/-)	0.5	1.0	2.0
Centerline alignment (feet lt./rt.)	1.0	1.5	3.0

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in the road plan will be resolved by giving the documents precedence in the following order:

1. Addenda.
2. Designs or Plans. On designs and plans, figured dimensions shall take precedence over scaled dimensions.
3. Road Plan Clauses.
4. Typical Section Sheet.
5. Standard Lists.
6. Standard Details.
7. Road Plan maps.

In case of any ambiguity or dispute over interpreting the road plan, the Contract Administrator’s or designee’s decision will be final.

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

Purchaser shall repair or replace all materials, roadway infrastructure, and road components damaged during road work or operation activities. The Contract Administrator will direct repairs and replacements. Repairs to structural materials must be made in accordance with the manufacturer’s recommendation and may not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any cut ends, or damaged galvanized or aluminized coating on existing or new bridge components, culverts, downspouts, and flumes must be cleaned and treated with a minimum of two coats of zinc rich paint or cold galvanizing compound.

1-15 ROAD MARKING

Purchaser shall perform road work in accordance with the state’s marked location. All road work is marked as follows:

- Orange painted trees or construction stakes for pre-haul maintenance.

1-21 HAUL APPROVAL

Purchaser shall not use roads under this road plan for timber hauling, other than timber cut on the right-of-way, without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 3 business days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Purchaser shall obtain written approval from the Contract Administrator upon completion of each of the following phases of road work:

- Rock application and compaction

1-25 ACTIVITY TIMING RESTRICTION

The specified activities are not allowed during the listed closure period unless authorized in writing by the Contract Administrator.

<u>Road</u>	<u>Activity</u>	<u>Closure Period</u>
All Roads	Pre-haul Maintenance	October 1 to April 30

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense.

1-29 SEDIMENT RESTRICTION

Purchaser shall not allow silt-bearing runoff to enter any streams.

1-30 CLOSURE TO PREVENT DAMAGE

In accordance with Contract Clause G-220 STATE SUSPENDS OPERATION, the Contract Administrator will suspend road work or hauling right-of-way timber, forest products, or rock under the following conditions:

- Wheel track rutting exceeds 6 inches on pit run, jaw run, or native surface roads.
- Wheel track rutting exceeds 2 inches on crushed rock roads.
- Surface or base stability problems persist.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

Operations must stop unless authority to continue working or hauling is granted in writing by the Contract Administrator. In the event that surface or base stability problems persist, Purchaser shall cease operations, or perform corrective maintenance or repairs, subject to specifications within this road plan. Before and during any suspension, Purchaser shall protect the work from damage or deterioration.

1-33 SNOW PLOWING RESTRICTION

Snowplowing will be allowed after the execution of a SNOW PLOWING AGREEMENT, which is available from the Contact Administrator upon request. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

Purchaser shall immediately remove any mud, dirt, rock, or other material tracked or spilled on to county roads and state highways.

If additional damage to the surface, signs, guardrails, etc. occurs then the damage will be repaired, at the Purchaser’s expense, as directed by the Contract Administrator when authorized by the county or WSDOT.

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

Purchaser shall maintain all roads used under this contract in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS for the entire term of this contract. Maintenance is required even during periods of inactivity.

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

Purchaser shall perform maintenance on roads listed in Contract Clause C-050 PURCHASER ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

Purchaser may be required to perform maintenance on roads listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER as directed by the Contract Administrator. Purchaser shall maintain roads in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain roads in a condition that will allow the passage of light administrative vehicles.

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following roads, Purchaser shall use a grader to shape the existing surface before rock application.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
D-7000	0+00 to 63+00	Grade and compact.
D-7100	0+00 to 57+00	Grade and compact.
D-7200	0+00 to 23+70	Spot grade, desod and compact.
D-7115	0+00 to 16+00	Spot grade, desod and compact.

2-6 CLEANING CULVERTS

On the following roads, Purchaser shall clean the inlets and outlets of all culverts and shall obtain written approval from the Contract Administrator before grading and rocking.

<u>Road</u>	<u>Stations</u>
D-7200	0+00 to 6+00

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following roads, Purchaser shall clean ditches, headwalls, and catchbasins. Work must be completed before grading and rocking and must be done in accordance with the TYPICAL SECTION SHEET. Pulling ditch material across the road or mixing in with the road surface is not allowed.

<u>Road</u>	<u>Stations</u>
D-7200	0+00 to 6+00

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-1 BRUSHING

On the following roads, Purchaser shall cut vegetative material up to 4 inches in diameter, including limbs, as shown on the ROADSIDE BRUSHING DETAIL. Brushing must be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

<u>Road</u>	<u>Stations</u>
D-7000	0+00 to 63+00
D-7100	0+00 to 57+00
D-7200	0+00 to 23+70
D-7115	0+00 to 16+00
D-7100D	0+00 to 5+00

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clause G-010 PRODUCTS SOLD AND SALE AREA or G-011 RIGHT TO REMOVE FOREST PRODUCTS AND CONTRACT AREA that is larger than one cubic foot in volume within the grubbing and brushing limits.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditch lines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, before subgrade compaction, the application of rock, and timber haul.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 25 feet of a cross drain culvert.
- Within 50 feet of a live stream, or wetland.
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris outside of the grubbing limits and in natural openings. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

SECTION 4 – EXCAVATION

4-5 CUT SLOPE RATIO

Purchaser shall construct excavation slopes no steeper than shown on the following table, unless construction staked or designed:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>	<u>Excavation Slope Percent</u>
Common Earth (on side slopes up to 55%)	1:1	100
Common Earth (on slopes over 70%)	¾:1	133
Fractured or loose rock	½:1	200
Hardpan or solid rock	¼:1	400

4-7 SHAPING CUT AND FILL SLOPE

Purchaser shall construct excavation and embankment slopes to a uniform line and left rough for easier revegetation.

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

Purchaser shall construct and reconstruct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Ditches must be constructed concurrently with construction of the subgrade.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-35 WASTE MATERIAL DEFINITION

Waste material is defined as all dirt, rock, mud, or related material that is extraneous or unsuitable for construction material. Waste material, as used in Section 4 EXCAVATION, is not organic debris.

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas, except as otherwise specified in this plan:

- Within 25 feet of a cross drain culvert.
- Within 50 feet of a live stream or wetland.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.

4-55 ROAD SHAPING

Purchaser shall shape the subgrade and surface as shown on the TYPICAL SECTION SHEET. The subgrade and surface shape must ensure runoff in an even, un-concentrated manner, and must be uniform, firm, and rut-free.

4-63 EXISTING SURFACE COMPACTION

Purchaser shall compact maintained road surfaces in accordance with the COMPACTION LIST by routing equipment over the entire width.

SECTION 5 – DRAINAGE

5-25 CATCH BASINS

Purchaser shall construct catch basins in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions of catch basins are 2 feet wide and 4 feet long.

SECTION 6 – ROCK AND SURFACING

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the following existing stockpile on state land at no charge to the Purchaser. Purchaser shall not remove additional yardage without prior written approval from the Contract Administrator. Other stockpiles may not be used without prior written approval from the Contract Administrator.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
D-7000 Stock Pile	52+50 of D-7000	2" Minus Crushed
D-7100 Stock Pile	32+60 of D-7100	2" Minus Crushed

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from commercial source at the Purchaser's expense. Rock sources are subject to written approval by the Contract Administrator before their use.

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths are defined as the compacted depth using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are loose yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction.

6-56 ROCK MEASUREMENT BY TRUCK VOLUME

Measurement of spot rock is on a cubic yard truck measure basis. The Purchaser will measure each truck box before rock hauling. An average of such volumes for each truck will be used to tally the volume hauled. The Contract Administrator may periodically require that a load be flattened off and its volume calculated. Purchaser shall maintain load tally sheets for each truck and shall give them to the Contract Administrator on a weekly basis during rocking operations.

6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

6-73 ROCK FOR WIDENED PORTIONS

Purchaser shall apply rock to turnarounds, turnouts, and areas with curve widening to the same depth and specifications as the traveled way, unless otherwise specified in the ROCK LIST.

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

Sediment control shall be accomplished using sediment traps, silt fences, settling ponds, or other methods as approved in writing by the Contract Administrator.

SECTION 9 – POST-HAUL ROAD WORK

9-5 POST-HAUL MAINTENANCE

Purchaser shall perform post-haul maintenance in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

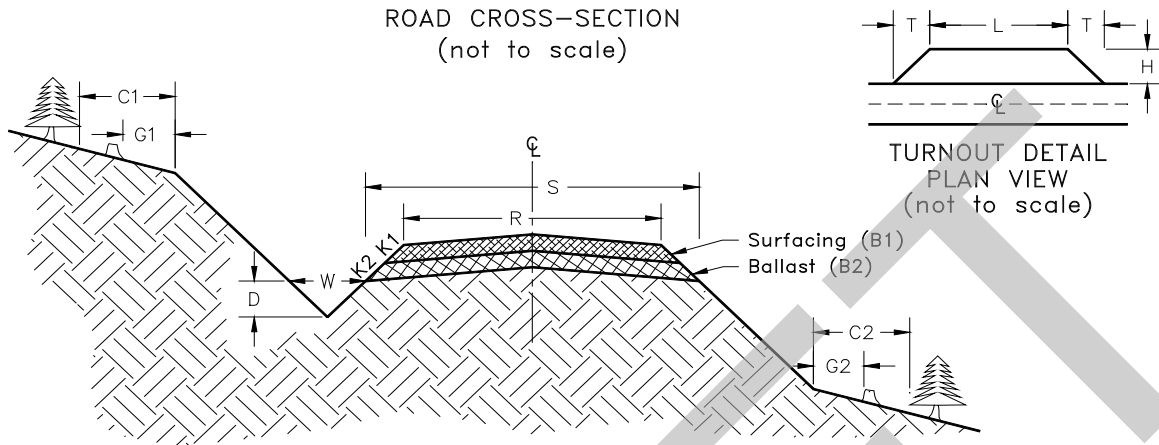
9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-11 LANDING EMBANKMENT

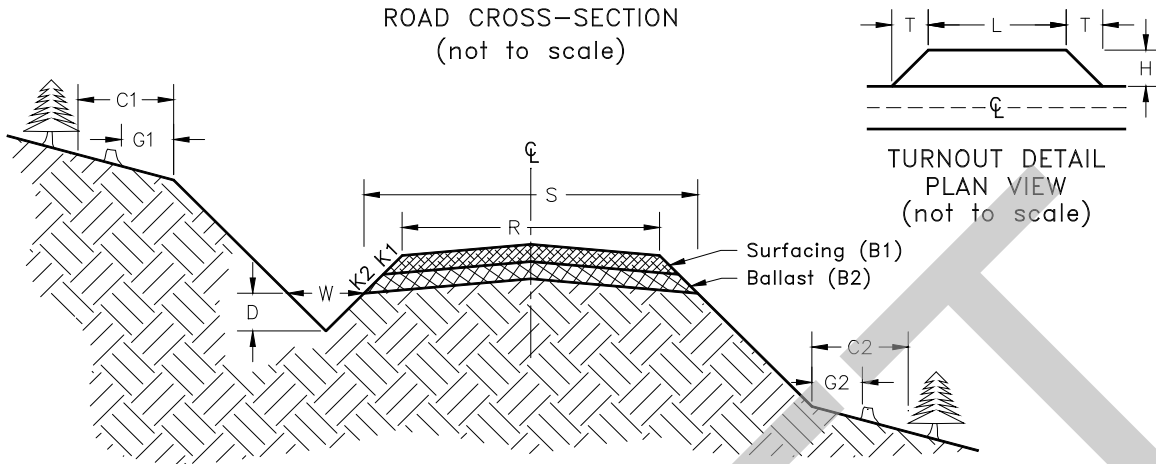
Purchaser shall slope landing embankments to the original construction specifications.

TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width	Road Width	Ditch Width	Ditch Depth	Crown @ CL	Grubbing Limits		Clearing Limits	
				ft	ft	ft	ft		ft	ft	ft	ft
				S	R	W	D		G1	G2	C1	C2
D-7000	0+00	63+00	A	-	12	-	-	4	-	-	-	-
D-7100	0+00	57+00	A	-	12	-	-	4	-	-	-	-
D-7200	0+00	6+00	A	-	12	3	1	4	-	-	-	-
	6+00	23+70	A	-	12	-	-	4	-	-	-	-
D-7115	0+00	16+00	A	-	12	-	-	4	-	-	-	-
D-7100D	0+00	5+00	A	-	12	-	-	4	-	-	-	-

ROCK LIST



2-INCH MINUS CRUSHED

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K1	B1				D-7000 or D-7100 Stock Pile	L (ft)	H (ft)	T (ft)
D-7000	0+00	22+00	1 1/2:1	3	15	22.00	330				
	Curve Widening						10				
D-7100	32+00	37+50		3	15	5.50	83				
	41+50	46+50		3	15	5.00	75				
	Spot Rock (10+00, 50+00)						20				
D-7200	Spot Rock (0+10, 3+40, 5+30)						60				

REQUIRED CRUSHED ROCK: 578 CY

COMPACTION LIST

Road	Type	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes
All Roads	Subgrade	12	Vibratory Smooth Drum	14,000	4
All Roads	Fill	18	Vibratory Smooth Drum	14,000	4
All Roads	Waste Area	24	Excavation	28,000	-
All Roads	Pre-haul Surface	6	Vibratory Smooth Drum	14,000	5
All Roads	Rock	12	Vibratory Smooth Drum	14,000	3

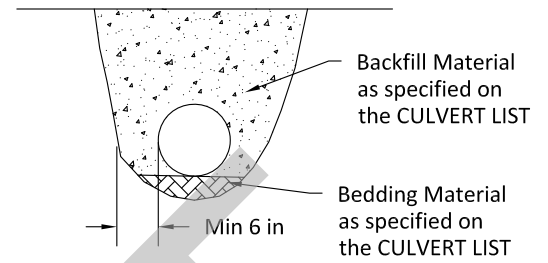
CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 1 OF 2

INSTALLATION REQUIREMENTS:

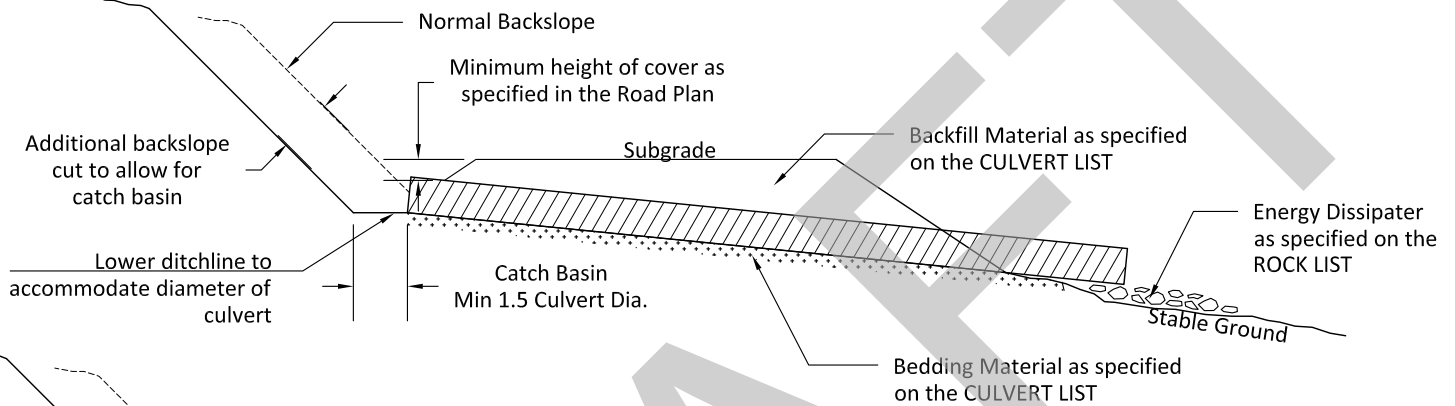
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly supported along the barrel.
2. Backfill material shall be compacted under the culvert haunches, around the sides, and above the culvert in accordance with the COMPACTION LIST.

ALL DRAWINGS ARE NOT TO SCALE

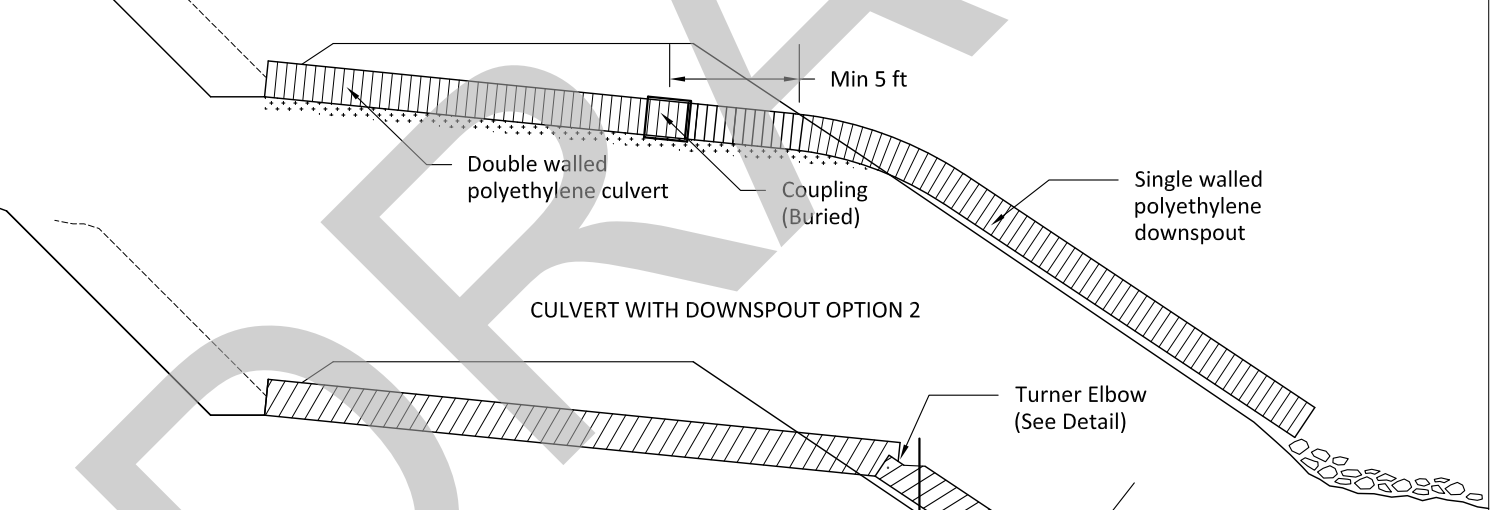
CROSS SECTION



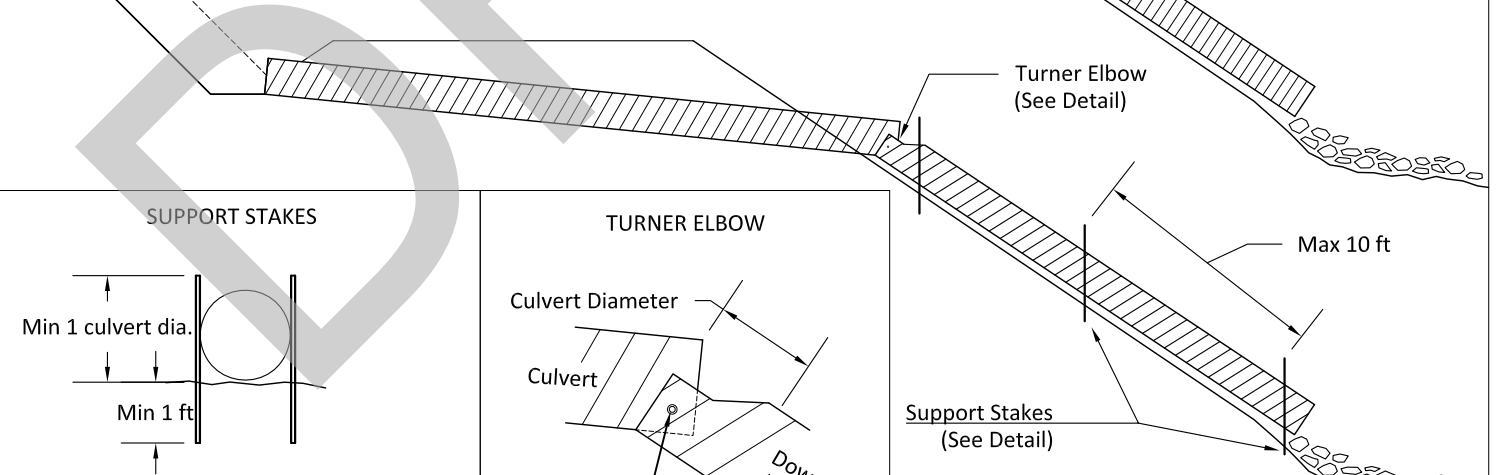
CULVERT PROFILE (TYPICAL)



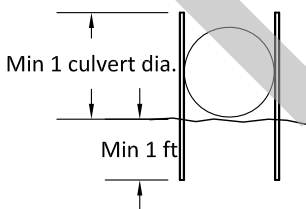
CULVERT WITH DOWNSPOUT OPTION 1



CULVERT WITH DOWNSPOUT OPTION 2

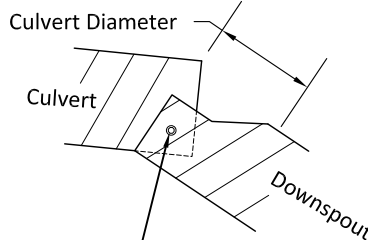


SUPPORT STAKES



Stake Material: T-post with rust protection coating.
Connections: Bolt support stakes to the culvert with $\frac{5}{8}$ " u-bolts, with washers on both the inside and outside of the culvert.
Alternative staking methods may be approved, in writing, by the Contract Administrator.

TURNER ELBOW

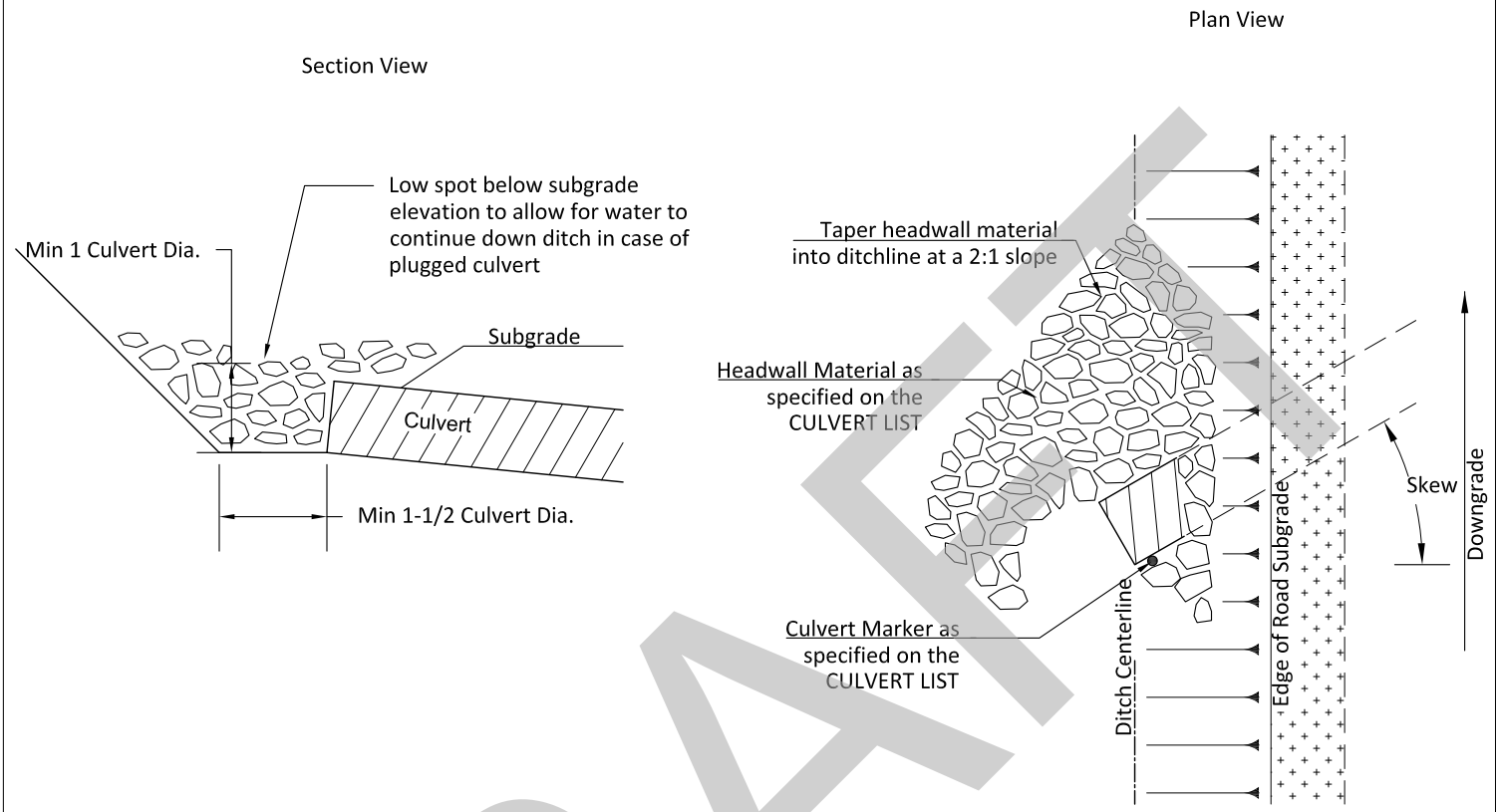


Bolted with $\frac{5}{8}$ " galvanized bolts and washers (both sides)
Downspout must be 6 inches larger in diameter than the culvert.

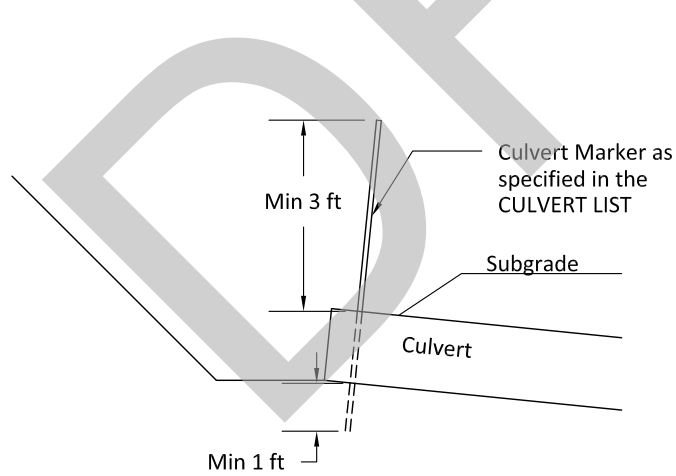
Support Stakes (See Detail)

CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 2 OF 2

HEADWALLS

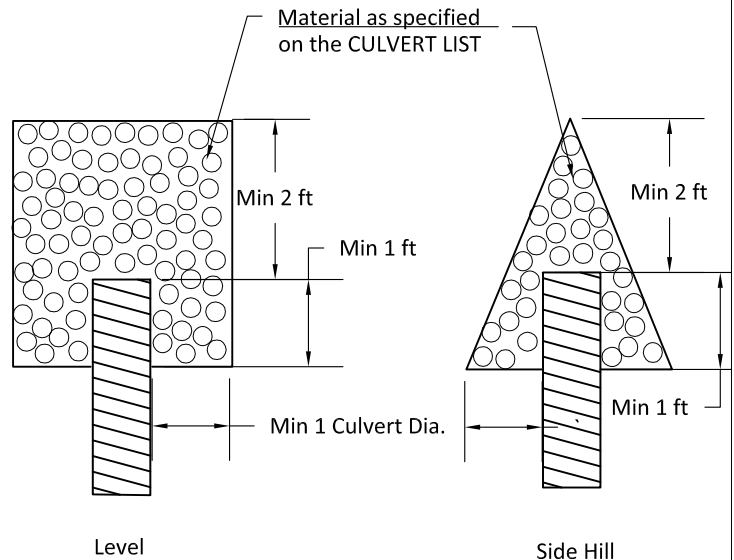


CULVERT MARKERS



Culvert Marker Material: 1 Inch I.D., Schedule 40 PVC Pipe, White. Marker must be capped on the top.
 Culvert Marker Placement: Place on uphill side of culvert, between corrugations if possible.
 Alternative culvert marker types may be approved, in writing, by the Contract Administrator.

ENERGY DISSIPATORS



Min Energy Dissipater Depth: 1 Culvert Dia.

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 1 of 2

Cuts and Fills

- Maintain slope lines to a stable gradient compatible with the cut slope/fill slope ratios. Remove slides from ditches and the roadway.
- Repair fill-failures, in accordance with Clause 4-6 EMBANKMENT SLOPE RATIO, with selected material or material approved by the Contract Administrator. Remove overhanging material from the top of cut slopes.
- Waste material from slides or other sources shall be placed and compacted in stable locations identified in the road plan or approved by the Contract Administrator, so that sediment will not deliver to any streams or wetlands.
- Slide material and debris shall not be mixed into the road surface materials, unless approved by the Contract Administrator.

Surface

- Grade the road surface, turnouts, and shoulders to the original shape on the TYPICAL SECTION SHEET to provide a smooth, rut-free traveled surface and maintain surface water runoff in an even, unconcentrated manner.
- Blading shall not undercut the backslope or cut into geotextile fabric on the road.
- If required by the Contract Administrator, water shall be applied as necessary to control dust and retain fine surface rock.
- Surface material shall not be bladed off the roadway. Replace surface material when lost or worn away, or as directed by the Contract Administrator.
- Remove shoulder berms, created by grading, to facilitate drainage, except as marked or directed by the Contract Administrator.
- For roads with geotextile fabric: spread surface aggregate to fill in soft spots and wheel ruts (barrel spread) to prevent damage to the geotextile fabric.

Drainage

- Prevent silt bearing road surface and ditch runoff from delivering sediment to any streams or wetlands.
- Maintain rolling dips and drivable waterbars as needed to keep them functioning as intended.
- Maintain headwalls to the road shoulder level with material that will resist erosion.
- Maintain energy dissipaters at culvert outlets with non-erodible material or rock.
- Keep ditches, culverts, and other drainage structures clear of obstructions and functioning as intended.
- Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This shall be done even during periods of inactivity.

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 2 of 2

Preventative Maintenance

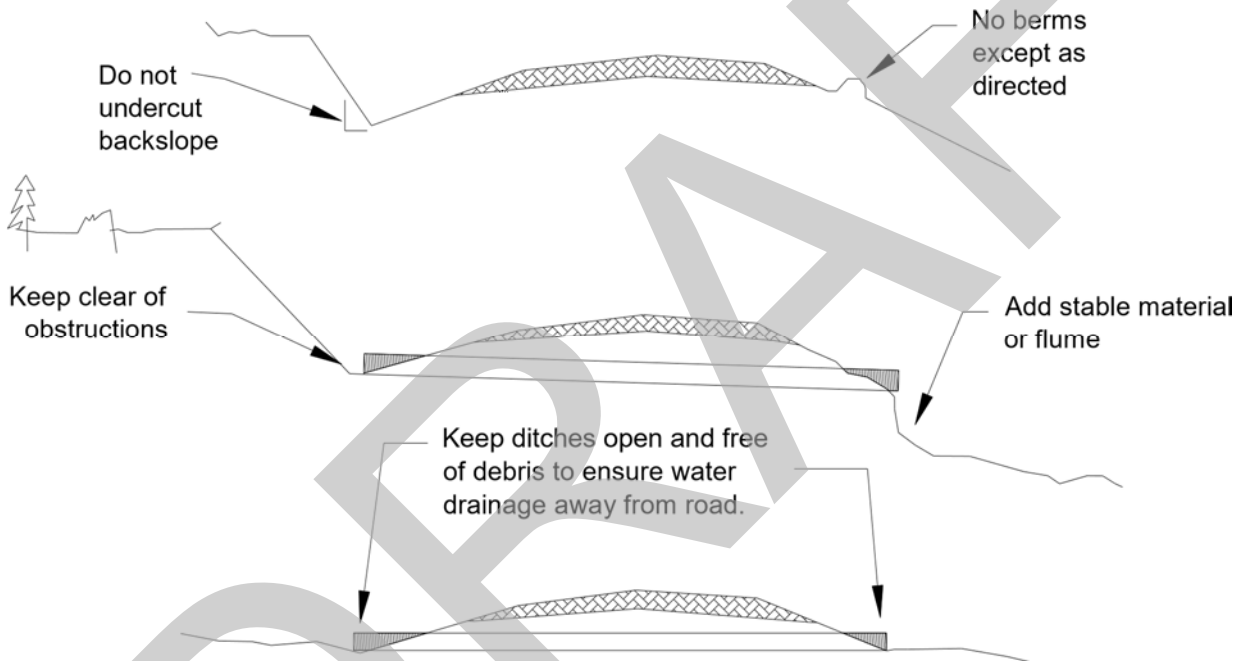
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

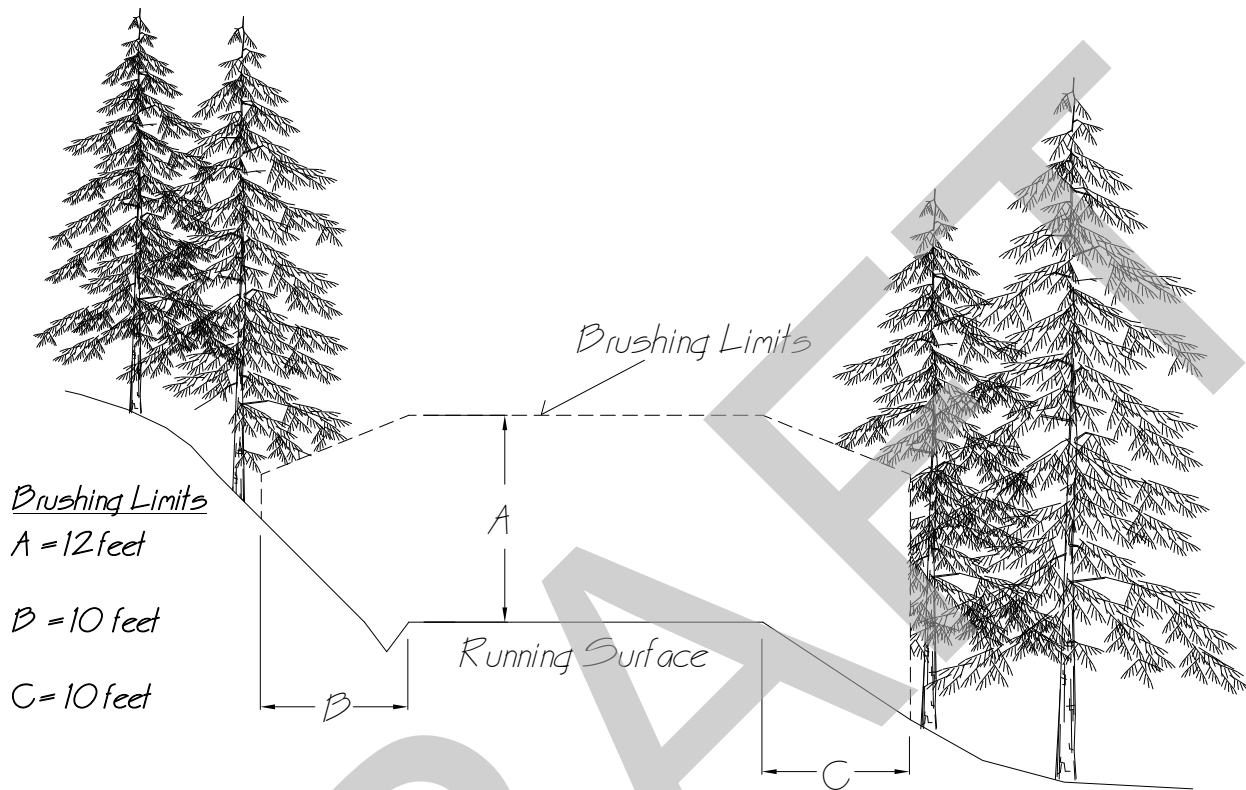
- At the conclusion of logging operations, ensure all conditions of these specifications have been met.

Debris

- Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



ROADSIDE BRUSHING DETAIL



GENERAL NOTES

- 1) Vegetative material, including limbs, up to 4 inches in diameter shall be cut within the brushing limits shown on the drawing above. This includes vegetative material growing on the running surface.
- 2) Vegetative material shall be cut as near flush with the ground as possible, but shall not extend more than 6 inches above the ground.
- 3) Brushing Limit C may be increased on the inside of curves to improve sight distance if approved by the Contract Administrator

SUMMARY OF ROAD

Sale: Stearn Look

Road: D-7000

Required
Pre-Haul Maintenance- 63+00 stations
1.19 miles

Required
Reconstruction - 0+00 stations
0.00 miles

Required
Construction - 0+00 stations
0.00 miles

Required Abandonment- 0+00 stations
0.00 miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional
Construction - 0+00 stations
0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

Roadside Brushing 1.19 miles @ \$1,170.00 per mile = \$1,392.30

MISC.

Grade and shape existing road surface - 63.00 stations @ \$18.25 per station \$1,149.75
Roll shaped road surface w/ vibratory roller prior to rocking - 63.00 stations @ \$9.70 per station \$611.10

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$3,153.15**

ROCK

0+00 to 22+00 340 cy. of Crushed @ \$5.97 per c.y. = \$2,029.80

TOTAL ROCK **\$2,029.80**

SUBTOTAL **\$5,182.95**

MOBILIZATION

SUBTOTAL **\$1,657.12**

OVERHEAD & GENERAL EXPENSES

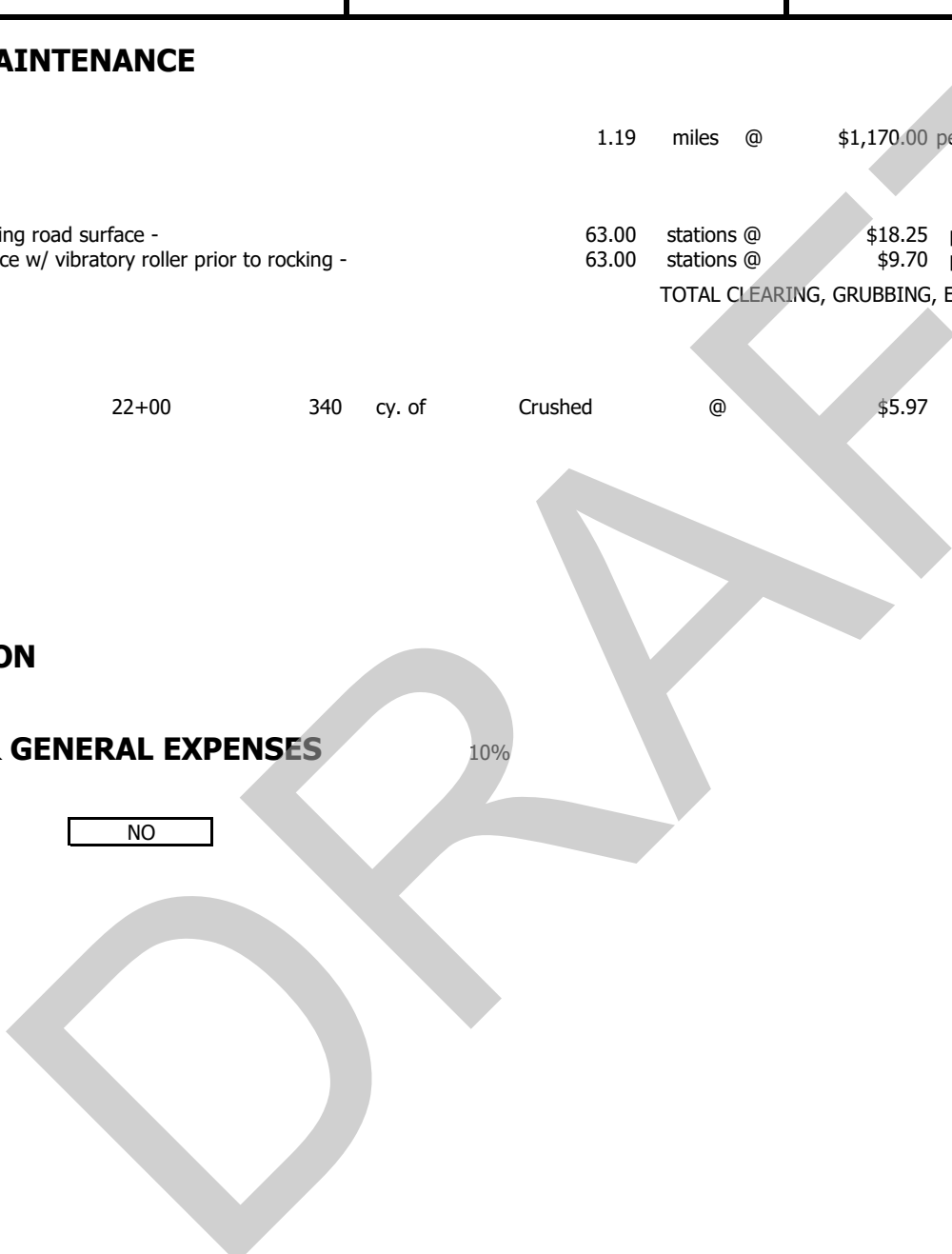
10%

SUBTOTAL **\$684.01**

TOTAL \$7,524.08

Optional Rock? NO

COST PER STATION \$119.43



SUMMARY OF ROAD

Sale: Stearn Look

Road: D-7100

Required
Pre-Haul Maintenance- 57+00 stations
1.08 miles

Required
Reconstruction - 0+00 stations
0.00 miles

Required
Construction - 0+00 stations
0.00 miles

Required Abandonment- 0+00 stations
0.00 miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional
Construction - 0+00 stations
0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

Roadside Brushing 1.08 miles @ \$1,170.00 per mile = \$1,263.60

MISC.

Grade and shape existing road surface - 57.00 stations @ \$18.25 per station \$1,040.25

Roll shaped road surface w/ vibratory roller prior to rocking - 57.00 stations @ \$9.70 per station \$552.90

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$2,856.75**

ROCK

32+00 to	37+50	83 cy. of	Crushed	@	\$5.99 per c.y.=	\$497.17
Spot Rock	10+00, 50+00	20 cy. of	Crushed	@	\$5.99 per c.y.=	\$119.80
41+50 to	46+50	75 cy. of	Ballast	@	\$5.99 per c.y.=	\$449.25
TOTAL ROCK						\$1,066.22

SUBTOTAL **\$3,922.97**

MOBILIZATION

SUBTOTAL **\$1,501.35**

OVERHEAD & GENERAL EXPENSES

10%

SUBTOTAL **\$542.43**

Optional Rock? NO

TOTAL \$5,966.75

COST PER STATION \$104.68

SUMMARY OF ROAD

Sale: Stearn Look

Road: D-7200

Required
Pre-Haul Maintenance- 23+70 stations
0.45 miles

Required
Reconstruction - 0+00 stations
0.00 miles

Required
Construction - 0+00 stations
0.00 miles

Required Abandonment- 0+00 stations
0.00 miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional
Construction - 0+00 stations
0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

Roadside Brushing 0.45 miles @ \$1,170.00 per mile = \$526.50

EXCAVATION

Clean ditch- 0+00 to 6+00 6.00 stations @ \$67.19 per station \$403.14

MISC.

Grade and shape existing road surface - 23.70 stations @ \$18.25 per station \$432.53
Roll shaped road surface w/ vibratory roller prior to rocking - 23.70 stations @ \$9.70 per station \$229.89

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$1,592.06**

ROCK

Spot Rock (0+10, 3+40, 5+30) 60 cy. of Crushed @ \$5.43 per c.y. = \$325.80
TOTAL ROCK **\$325.80**

SUBTOTAL **\$1,917.86**

MOBILIZATION

SUBTOTAL **\$836.70**

OVERHEAD & GENERAL EXPENSES

10% SUBTOTAL **\$275.46**

Optional Rock? NO

TOTAL \$3,030.02

COST PER STATION \$127.85

SUMMARY OF ROAD

Sale: Stearn Look

Road: D-7115

Required
Pre-Haul Maintenance- 16+00 stations
0.30 miles

Required
Reconstruction - 0+00 stations
0.00 miles

Required
Construction - 0+00 stations
0.00 miles

Required Abandonment- 0+00 stations
0.00 miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional
Construction - 0+00 stations
0.00 miles

PRE-HAUL MAINTENANCE

CLEARING					
Roadside Brushing	0.30	miles @	\$1,170.00	per mile =	\$351.00
MISC.					
Grade and shape existing road surface -	16.00	stations @	\$18.25	per station	\$292.00
Roll shaped road surface w/ vibratory roller prior to rocking -	16.00	stations @	\$9.70	per station	<u>\$155.20</u>
			TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.		\$798.20

SUBTOTAL **\$798.20**

MOBILIZATION

SUBTOTAL **\$419.49**

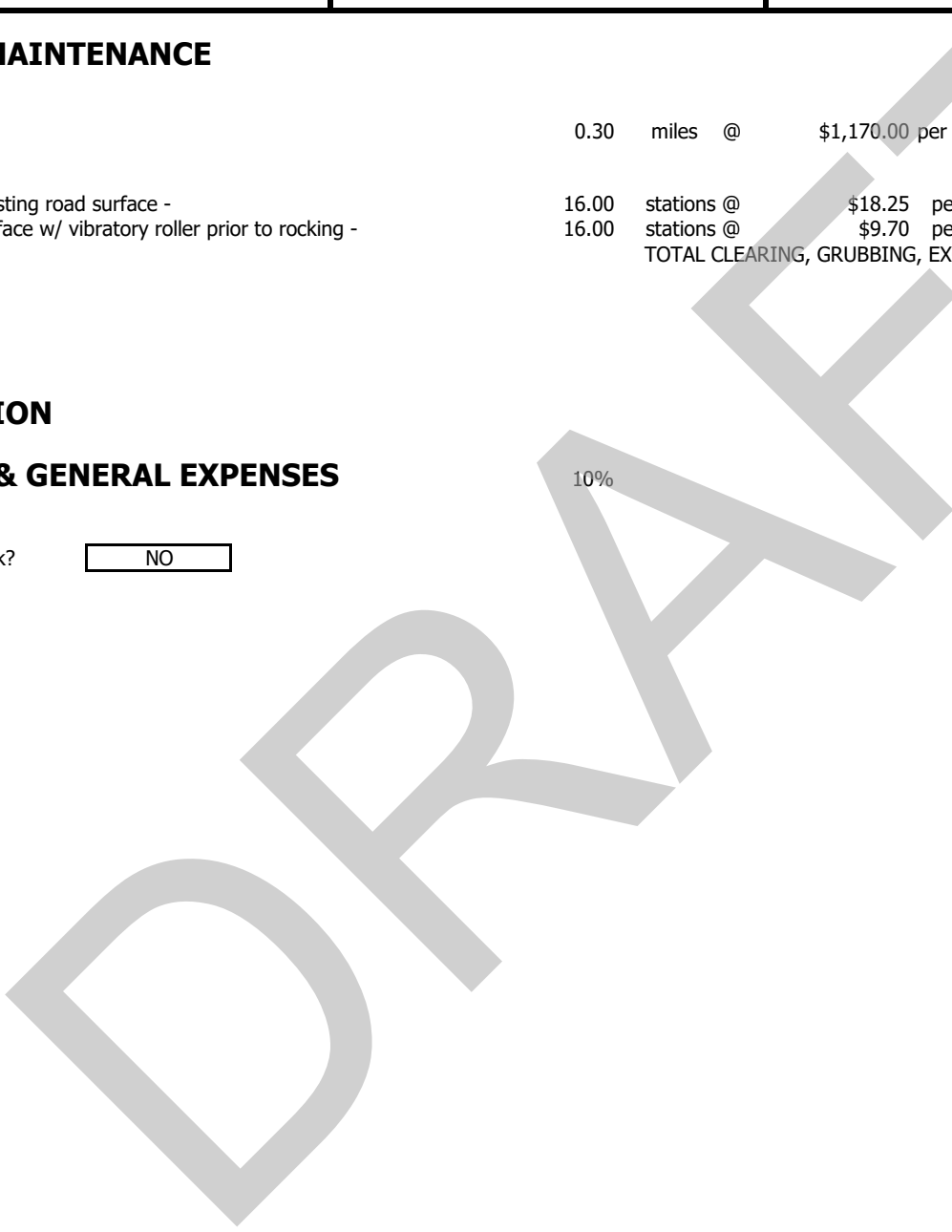
OVERHEAD & GENERAL EXPENSES

SUBTOTAL **\$121.77**

Optional Rock? NO

TOTAL **\$1,339.46**

COST PER STATION **\$83.72**



SUMMARY OF ROAD

Sale: Stearn Look

Road: D-7100D

Required
Pre-Haul Maintenance- 5+00 stations
0.09 miles

Required
Reconstruction - 0+00 stations
0.00 miles

Required
Construction - 0+00 stations
0.00 miles

Required Abandonment- 0+00 stations
0.00 miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional
Construction - 0+00 stations
0.00 miles

PRE-HAUL MAINTENANCE

CLEARING
Roadside Brushing 0.09 miles @ \$1,170.00 per mile = \$105.30

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$105.30**

SUBTOTAL **\$105.30**

MOBILIZATION

SUBTOTAL **\$0.00**

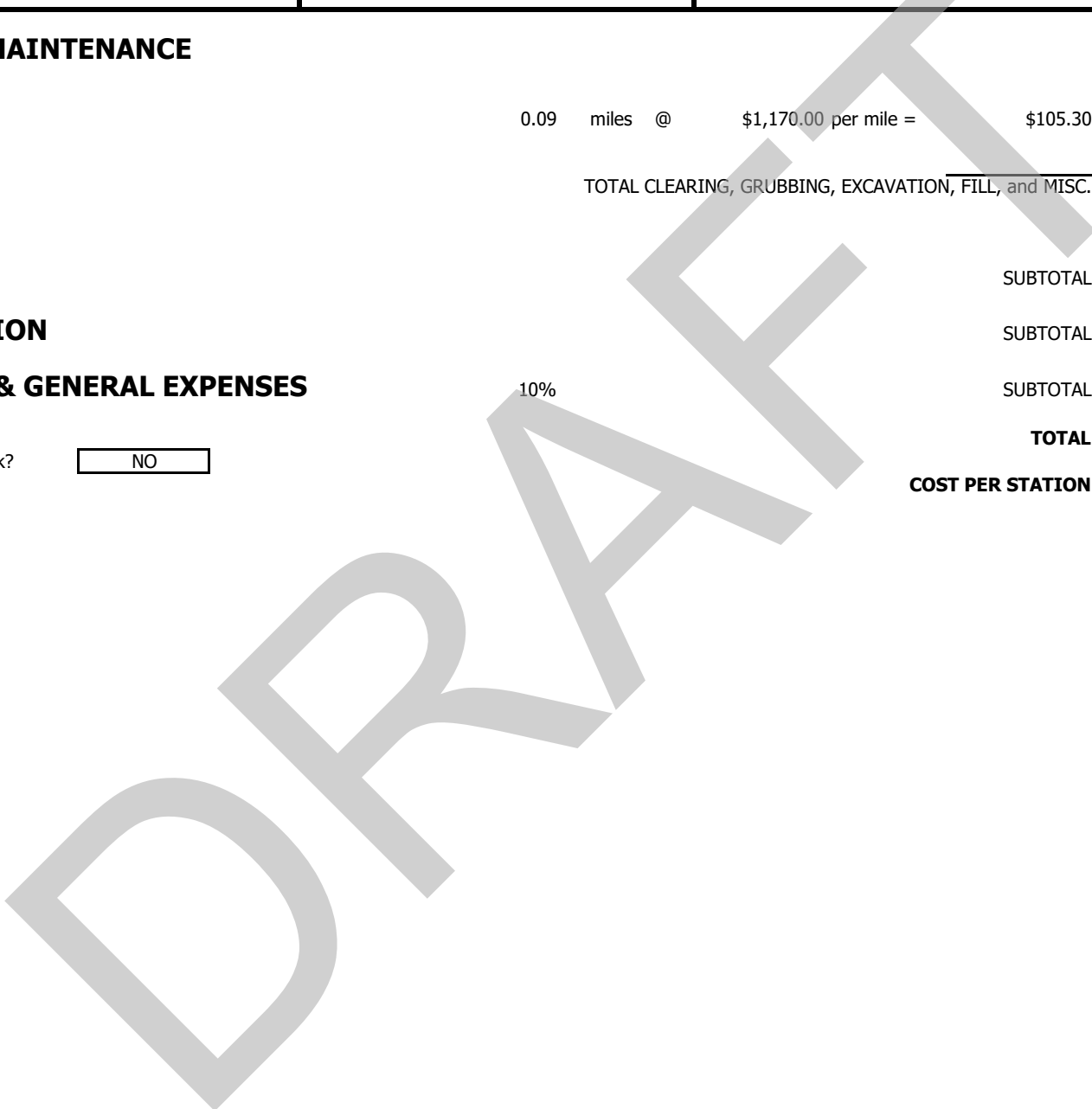
OVERHEAD & GENERAL EXPENSES

SUBTOTAL **\$10.53**

Optional Rock? NO

TOTAL \$115.83

COST PER STATION \$23.17



ROCK DEVELOPMENT COST SUMMARY

Pit:	D-7000 Stock Pile	Location:	Sec. 25, T14N R4W
Sale:	Stearn Look	Road:	578 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	578 c.y.
Drill Pct.:	0%	In Place Total:	413 c.y.

Load Dump Truck: \$2.00 /cu.yd x 578 cu.yds. \$1,156.00
Subtotal \$1,156.00

Base Cost= \$2.00 Per Cu.Yd. TOTAL COSTS \$1,156.00

Road Segment	Haul Cost /cu.yd.	Application Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	One-Way Dist (ft)	ROCK COST
D-7000	\$2.97	\$1.00	\$2.00	\$5.97	340	18	4000	\$2,029.80
D-7100	\$2.99	\$1.00	\$2.00	\$5.99	83	18	4100	\$497.17
D-7100 Spot Rock	\$2.99	\$1.00	\$2.00	\$5.99	20	18	4100	\$119.80
D-7100	\$2.99	\$1.00	\$2.00	\$5.99	75	18	4100	\$449.25
D-7200 Spot Rock (0+10, 3+40)	\$2.43	\$1.00	\$2.00	\$5.43	60	17	2000	\$325.80
					Total C.Y.	578	Sub Total	\$3,421.82

TOTAL ROCKING COSTS \$3,421.82



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

Construction: linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: linear feet
Road to be reconstructed (optional and required) but not abandoned

Abandonment: linear feet
Abandonment of existing roads not reconstructed under the contract

Decommission: linear feet
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: linear feet
Roads to be constructed (optional and required) and then abandoned

Temporary Reconstruction: linear feet
Roads to be reconstructed (optional and required) and then abandoned

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829.

(Revised 9/18)