



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Loose Shoes
Sale 341-11-22

District: Coos

Date: May 28, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$664,808.66	\$42,636.00	\$707,444.66
		Project Work:	\$(68,928.00)
		Advertised Value:	\$638,516.66



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timber description

Location: Portions of Sections 8, 17 and 18, T24S, R11W, W.M., Coos County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	26	0	90
Western Hemlock / Fir	22	0	90
Red Cedar	34	0	90
Alder (Red)	13	0	95

Volume by Grade	(12"+) 2S	10" - 11"	2S	3P	3S	3S 10" -	3S 12"+	4S	6" - 7"	8" - 9"	SM	Total
Douglas - Fir	0	0	1,497	62	0	184	82	61	0	0	164	2,050
Western Hemlock / Fir	0	0	7	0	0	0	12	0	0	0	0	19
Red Cedar	0	0	0	0	17	0	0	0	0	0	0	17
Alder (Red)	63	32	0	0	0	0	0	0	44	11	0	150
Total	63	32	1,504	62	17	184	94	61	44	11	164	2,236



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comments: Pond Values Used: 1st Quarter Calendar Year 2010.

Regeneration harvest of approximately 68 net acres of 79-100 year-old mature second growth and 39-42 year-old Douglas-fir sawtimber with a component of red alder, western redcedar and western hemlock.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

FELLING

Felling of Unmerch Material: 150 MBF @ \$1 per MBF = \$150

Directional Felling: 100 MBF @ \$2 per MBF = \$200

YARDING & LOADING

Locate Corridors and Skid Roads: 14 MBF @ \$5 per MBF = \$70

Brand and Paint Logs: 2,236 MBF @ \$1 per MBF = \$2,236

Loader Time for Firewood Stacking: 8 hours @ \$75/hour = \$600

SNAG CREATION

Tree Topping: 18 trees @ \$100/each = \$1,800

Tree Girdling: 17 trees @ \$100/each = \$1,700

MISCELLANEOUS COSTS

Additional Fire Equipment: 1 season @ \$1,000 per season = \$1,000

TOTAL Other Costs (with Profit & Risk to be added) = \$7,756

Other Costs (No Profit & Risk added):

None.



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logging conditions

combination#: 1

Douglas - Fir	85.00%
Western Hemlock / Fir	85.00%
Red Cedar	85.00%
Alder (Red)	85.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Manual Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,800
cost / mbf: \$76.95

machines: Log Loader (A)
Tower Yarder (Large)

combination#: 2

Douglas - Fir	15.00%
Western Hemlock / Fir	15.00%
Red Cedar	15.00%
Alder (Red)	15.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Manual Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,800
cost / mbf: \$52.18

machines: Shovel Logger



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logging costs

Operating Seasons:	1.00	Profit Risk:	15.00%
Project Costs:	\$68,928.00	Other Costs (P/R):	\$7,756.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	0.0	2.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	5.0
Western Hemlock / Fir	\$0.00	3.0	5.0
Red Cedar	\$0.00	3.0	5.0
Alder (Red)	\$0.00	3.0	3.5



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Local Pond Values

Date	Specie	Grade	Value
5/28/10	Douglas - Fir	3P	\$645.00
5/28/10	Douglas - Fir	SM	\$550.00
5/28/10	Douglas - Fir	2S	\$470.00
5/28/10	Douglas - Fir	3S	\$425.00
5/28/10	Douglas - Fir	3S 12"+	\$270.00
5/28/10	Douglas - Fir	4S	\$415.00
5/28/10	Western Hemlock / Fir	2S	\$385.00
5/28/10	Western Hemlock / Fir	3S 12"+	\$240.00
5/28/10	Red Cedar	3S	\$700.00
5/28/10	Alder (Red)	8" - 9"	\$365.00
5/28/10	Alder (Red)	10" - 11"	\$485.00
5/28/10	Alder (Red)	(12"+) 2S	\$575.00
5/28/10	Alder (Red)	6" - 7"	\$275.00



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$73.23	\$2.46	\$1.96	\$44.64	\$3.47	\$18.86	\$0.00	\$5.00	\$0.00	\$149.62
Western Hemlock / Fir									
\$73.23	\$2.46	\$1.96	\$44.64	\$3.47	\$18.86	\$0.00	\$5.00	\$0.00	\$149.62
Red Cedar									
\$73.23	\$2.46	\$1.96	\$44.64	\$3.47	\$18.86	\$0.00	\$5.00	\$0.00	\$149.62
Alder (Red)									
\$73.23	\$2.35	\$1.96	\$60.87	\$3.47	\$21.28	\$0.00	\$5.00	\$0.00	\$168.16

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$468.02	\$318.40	\$0.00
Western Hemlock / Fir	\$0.00	\$293.42	\$143.80	\$0.00
Red Cedar	\$0.00	\$700.00	\$550.38	\$0.00
Alder (Red)	\$0.00	\$452.40	\$284.24	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Red Cedar	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,050	\$318.40	\$652,720.00
Western Hemlock / Fir	19	\$143.80	\$2,732.20
Red Cedar	17	\$550.38	\$9,356.46
Alder (Red)	150	\$284.24	\$42,636.00

Gross Timber Sale Value

Recovery: \$707,444.66

Prepared by: Gloria Clary

Phone: 541-267-1757

SUMMARY OF CONSTRUCTION COST

Loose Shoes

Project 1: Road and Landing Construction - Area 2

Point: M to N Length: 375' Type: 14' no ditch

Excavator	15	hrs at	\$125.00	per hour	\$1,875.00
Cat time	15	hrs at	\$120.00	per hour	\$1,800.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	15	hrs at	\$35.00	per hour	\$525.00

Sub-Total \$4,275.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	25	5	\$95.00	\$475.00
Cat	25	5	\$95.00	\$475.00
Grader	25	4	\$95.00	\$380.00

Move Between Areas

Excavator & Cat - walk-in and
move between areas 2.5 hrs at \$245.00 per hour \$612.50

Total Move-in: \$1,943.00

Project 1 Total \$6,218.00

Project 2A: Road and Landing Improvement - Area 1

Points: A to B Length: 2120' Type: 14' w/ditch
Points: B to C Length: 945' Type: 14' no ditch

Grader time 3 hrs at \$75.00 per hour \$225.00

Total Project 2A: \$225.00

Project 2B: Road Improvement - Area 1

Points: C to D Length: 2810' Type: 14' no ditch
Points: D to E Length: 265' Type: 14' no ditch
Points: F to G Length: 290' Type: 14' no ditch
Points: H to I Length: 635' Type: 14' no ditch

Excavator	20	hrs at	\$125.00	per hour	\$2,500.00
Cat Time	20	hrs at	\$120.00	per hour	\$2,400.00
Grader	3	hrs at	\$75.00	per hour	\$225.00
Laborer	20	hrs at	\$35.00	per hour	\$700.00

Total Project 2B: \$5,825.00

Project 2C: Landing Improvement - Area 1

Points: J Length: n/a Type: n/a

Cat time	1	hrs at	\$120.00	per hour	\$120.00
Excavator time	1	hrs at	\$125.00	per hour	\$125.00

Total Project 2C: \$245.00

SUMMARY OF CONSTRUCTION COST

Loose Shoes

Project 2D: Road Improvement - Area 2

Points: K to L Length: 8700' Type: 14' w/ditch

Grader 4 hrs at \$75.00 per hour \$300.00

Total Project 2D: \$300.00

Project 2E: Road Improvement - Area 2

Points: L to M Length: 620' Type: 14' w/ditch

Grader 1 hrs at \$75.00 per hour \$75.00

Total Project 2E: \$75.00

Project 2 Total \$6,670.00

Project 3A: Rock Stockpile

Location: Dry Lake (10 mi on 2000 Rd)
 Measured amount: 1200 cu yds
 Size: 1 1/2" - 0"

Cost per cu yd at crusher:	\$12.24	per yd
Haul cost per cu yd (2.2 hr RT):	\$9.78	per yd
Piling and shaping cost per cu yd:	<u>\$2.00</u>	per yd

Total cost per cu yd:	\$24.02	per yd
Total cu yds:	1200	yards

Total Cost for Stockpile rock: \$28,824.00

Total Project 3A: \$28,824.00

Project 3B: Rock Stockpile

Location: Dry Ridge (7.5 mi on 2000 Rd)
 Measured amount: 1200 cu yds
 Size: 1 1/2" - 0"

Cost per cu yd at crusher:	\$12.24	per yd
Haul cost per cu yd (1.9 hr RT):	\$8.44	per yd
Piling and shaping cost per cu yd:	<u>\$2.00</u>	per yd

Total cost per cu yd:	\$22.68	per yd
Total cu yds:	1200	yards

Total Cost for Stockpile rock: \$27,216.00

Total Project 3B: \$27,216.00

Project 3 Total \$56,040.00

Total Project Costs \$68,928.00

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
			Coos			Douglas				
Area	Spec	CSL	BOF	Total	CSL	BOF	Total			
I-II	D-fir	2050		2050			0	2050	30.15	
	Hdwd	150		150			0	150	2.21	
	Cedar	17		17			0	17	0.25	
	Spruce	0		0			0	0	0.00	
	Hemlock	19		19			0	19	0.28	
TOTALS			2236	0	2236	0	0	0	2236	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	2050	MBF
Hemlock	19	MBF
Cedar	17	MBF
Spruce	0	
Hardwoods	150	MBF
Total	2236	MBF

Report by: Loose Shoes

Date: 04/21/2010

Unit For: *[Signature]* Date: 4/26/10

Asst. Dist. For: *[Signature]* Date: 2010.04.26

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
	cc	pc		cc	pc		cc	pc		cc	pc		
I	52												52
II	16												16
													0
													0
SUM	68	0	0	0	0	0	0	0	0	0	0	0	68

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

TIMBER SALE SUMMARY

Loose Shoes

1. **Type of sale:** Final harvest; Recovery, Sealed Bid.
2. **Boundary Lines:** Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 100% CSL and 0% BOF; 100% Coos County.
4. **Sale Acreage:** The total sale area is 68 net acres. Buffer areas are posted outside the sale area and are not included in the net acreage calculation. Unstocked areas in Area 1 are not included in the net volume calculation. The acreage was determined using orthophoto imagery on the ARCVIEW Geographic Information System program.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

Species	3 Peeler	S M	2 Saw (12"+)	3 Saw (12"+)	3 Saw (10-11")	4 Saw (8-9")	(6-7")
Douglas-fir	3 %	8 %	73 %	4 %	9 %	3 %	----
Red Alder	----	----	42 %	----	21 %	7 %	30 %
Western Red Cedar	----	----	----	----	100 %	----	----
Western Hemlock	----	----	35 %	65 %	----	----	----
Sitka Spruce	----	----	----	----	----	----	----

7. **Cruise:** The unit was variable plot cruised using the Big BAF cruise design, which consisted of 98 nested plots. For the mature stand each plot consists of both a full 40 BAF count plot and a full 250 BAF measure plot. The 40 BAF plot was used to tally the number of trees by species to determine the stand basal area. The 40 BAF plot was then used to select hardwoods and minor species to cruise and the 250 BAF plot to select Douglas-fir trees to cruise. Selected trees were cruised for diameter at breast height, height, grade and defect. Thirty-nine Douglas-fir Big BAF trees were cruised for diameter, height, grade and defect. The cruise was analyzed using the SuperACE cruising program.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Estimated or measured on all trees	33.5	9.71

B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	BF per acre
Douglas-fir	26	45	165	30,147
Red Alder	13	37	36	2,205
Western Red Cedar	34	1	2	250
Western Hemlock	22	1	3	279

C. Green Tree Retention Summary: Most green trees were posted outside of the timber sale, except scattered trees which will be removed from the cruise. These scattered trees are marked with a "W" in red and blue paint.

8. **Timber Description:** The timber sale has three stands that are moderately stocked of approximately 79 to 100 year old second growth and 39 to 42 year old third growth Douglas-fir, of good to average quality, with red alder, Sitka spruce and western hemlock in the understory. Conifers range from 77 to 209 feet tall while hardwoods average 40 feet.

9. **Topography:** The unit ranges from 15% to 75% slope. There are large areas where topography is between 15% to 30 % slope in Area 1 with typical steeper stream drainages. Area 2 is predominately over 60% slope.

10. **Logging Method:** The sale will be cable logged uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A motorized carriage will be required to obtain the necessary suspension. Some portions of Area 1 may be ground yarded. Tail trees may need to be placed for yarding the sale area as approved in the operations plan.

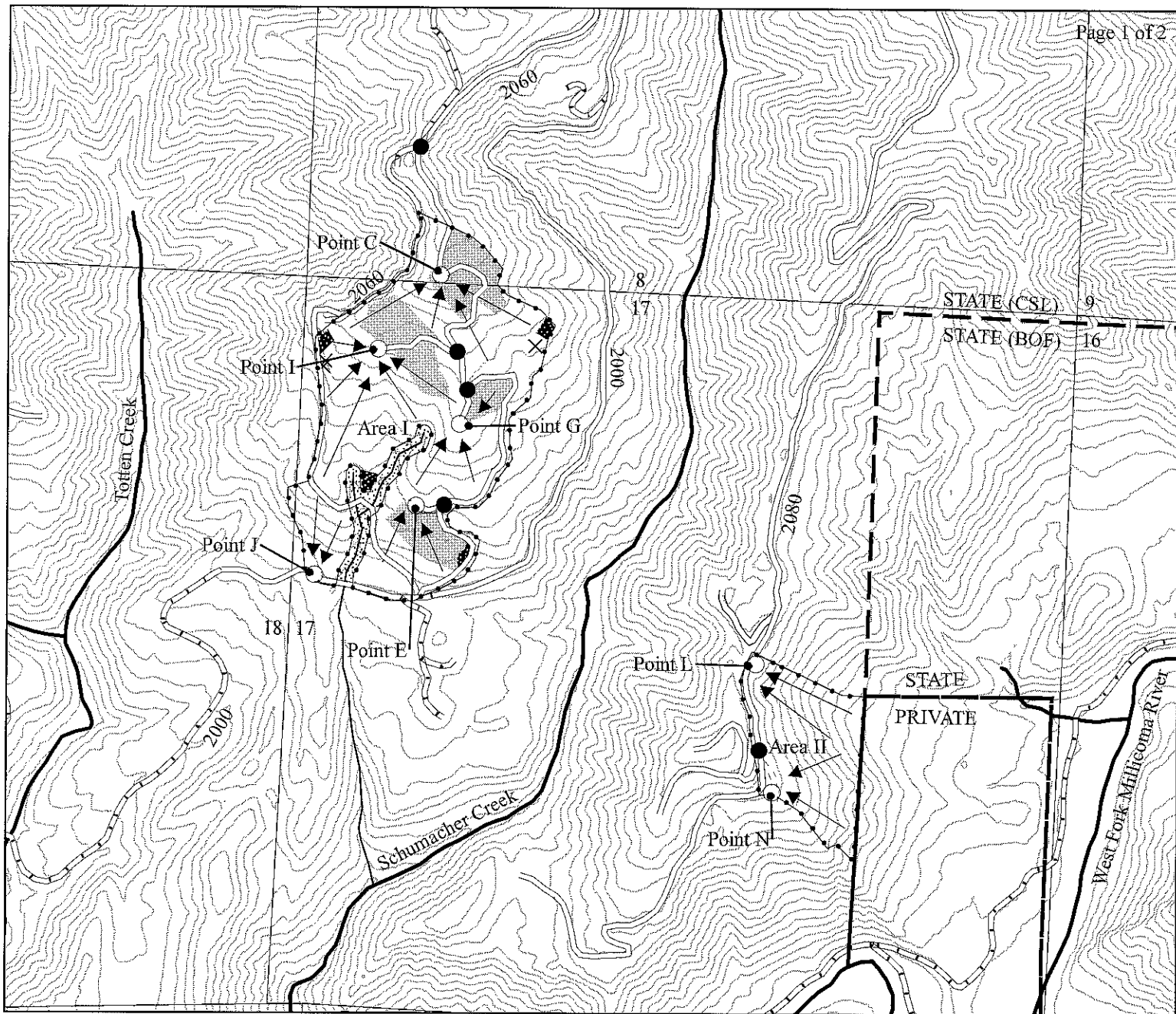
11. **Access:** From Coos Bay, proceed east on Coos River Highway for 13 miles to Allegany, then turn on to the West Fork Millicoma Road for 5 miles to the 2000 road, then proceed 2 miles on the 2000 road to project point A at the junction of the 2060 road.

12. **Projects:**

Project No. 1: Road and Landing Construction

Project No. 2: Road Improvement

Project No. 3: Rock Stockpiles



Legend

- Landing
- Posted Sale Boundary
- Project Point
- Elliott State Forest Boundary
- Roads**
- Purchaser Maintained Road
- State Maintained Road
- New Road Construction
- ← Yarding Corridors
- Streams**
- Type F
- Type N Perennial
- ▨ Stream Buffer
- × Green Tree Retention Single
- ▩ Green Tree Retention Group
- ▨ Ground Yarding Area
- Contours: 40 Foot

APPROXIMATE ACREAGE	
AREA I	52
AREA II	16
TOTAL	68

LOGGING PLAN

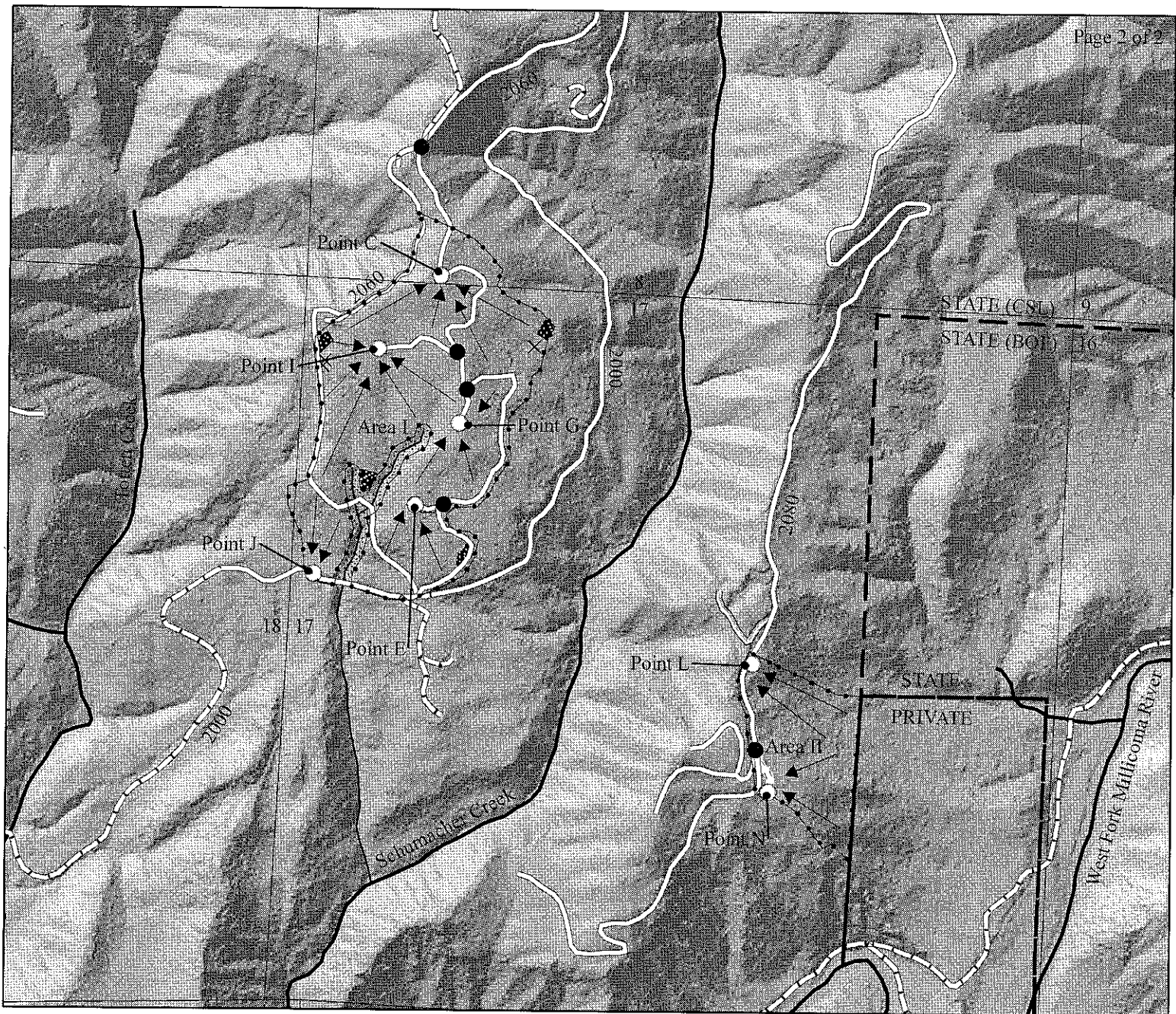
LOOSE SHOES
 341-11-22
 PORTIONS OF SECTIONS 8, 17 AND 18
 T24S, R11W
 COOS COUNTY, OREGON
 APPROXIMATELY 68 NET HARVEST ACRES



APPROX. SCALE: 1" = 1000'



This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.



Legend

- Landing
- ▭ Posted Sale Boundary
- Project Point
- Elliott State Forest Boundary
- Roads**
- ▬ Purchaser Maintained Road
- ▬ State Maintained Road
- ▬▬▬ New Road Construction
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