



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Lobster GNA
Sale CS-341-2022-GF8518-01

District: Coos

Date: May 05, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$333,869.96	\$0.00	\$333,869.96
		Project Work:	(\$230,279.00)
		Advertised Value:	\$103,590.96



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Date: May 05, 2022

Timber Description

Location: Portions of Sections 4, 5, 8, 9, 16, 17, and 21, Township 34S R13W, Willamette Meridian, Curry County Oregon.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	95
Western Hemlock / Fir	12	0	95

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	46	1,255	1,018	2,319
Western Hemlock / Fir	10	60	33	103
Total	56	1,315	1,051	2,422

Comments: Good Neighbor Authority sale

1. SOURCE OF POND VALUES

Pond Values Used: Coos Region, March 2022.

2. PRICING FOR ANY SPECIES THAT DOES NOT HAVE ANY VOLUME LISTED IN THE APPRAISAL

Port-Orford cedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:

\$194/MBF = \$750/MBF - \$556/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:

\$144/MBF = \$700/MBF - \$556/MBF

3. PULP PRICE

Pulp (Conifer and Hardwood) Price = \$0.25/ton

4. IDENTIFY OTHER COSTS WITH PROFIT & RISK TO BE ADDED: Felling of unmerchantable material (\$800), Brand and paint logs (\$2423), Slash piling/landing cleanup/firewood sorting (\$3625), Rig lift trees (\$2250), Artificial guy anchors (\$1000), plastic sheeting for slash piles (\$1450), subsoiling roads (\$18000), slash covering of subsoiled roads (\$6000), Subsoiling landings (\$8700), and Equipment move between areas (\$2500). Total \$47,398.

5. IDENTIFY OTHER COSTS WITH NO PROFIT & RISK ADDED: N/A

6. IDENTIFY SLASH DISPOSAL COSTS: N/A

7. IDENTIFY ROAD MAINTENANCE COSTS: Maintenance of USFS roads used under this contract.



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Logging Conditions

Combination#: 1 Douglas - Fir 76.00%
 Western Hemlock / Fir 76.00%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber

yarding distance: Long (1,500 ft) **downhill yarding:** No

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 5 **bd. ft / load:** 3800

cost / mbf: \$297.97

machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Small)

Combination#: 2 Douglas - Fir 24.00%
 Western Hemlock / Fir 24.00%

Logging System: Shovel **Process:** Stroke Delimber

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 8 **bd. ft / load:** 3800

cost / mbf: \$104.34

machines: Stroke Delimber (B)



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Logging Costs

Operating Seasons: 4.00	Profit Risk: 20%
Project Costs: \$230,279.00	Other Costs (P/R): \$47,398.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	15.0	0.0	2.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	3.8
Western Hemlock / Fir	\$0.00	2.0	3.8



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$251.50	\$17.85	\$7.25	\$165.78	\$19.57	\$92.39	\$0.00	\$2.00	\$0.00	\$556.34
Western Hemlock / Fir									
\$251.50	\$17.85	\$7.25	\$165.78	\$19.57	\$92.39	\$0.00	\$2.00	\$0.00	\$556.34

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$698.20	\$141.86	\$0.00
Western Hemlock / Fir	\$0.00	\$603.88	\$47.54	\$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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,319	\$141.86	\$328,973.34
Western Hemlock / Fir	103	\$47.54	\$4,896.62

Gross Timber Sale Value

Recovery: \$333,869.96

Prepared By: Ryan Greco

Phone: 541-267-1742

TIMBER SALE SUMMARY

1. **Type of Sale:** Recovery sale, sealed bid auction of 269 acres of thinning.
2. **Revenue Distribution:** USFS Supplemental Project Agreement 18-GN-11061000-048
Project GF8518-01 PCA 02604
3. **Sale Acreage:** For the sale, 269 net acres were used for the cruise expansion. Boundary posting encompasses 288 acres but includes 19 acres of poorly stocked timber that is not suitable for thinning. Acreage was determined with ArcGIS Pro.
4. **Volume:** The table below describes the volume by grade over the sale areas. The bid species is Douglas-fir by ton. A more detailed look of volume is available in the cruise report.
5. **Cruise Data:** The volume of the sale is estimated to be 2,423 MBF (5.6% sampling error), or 17,927 tons. The volume of sale areas will be more variable due to the smaller sample compared to the total volume sample. See the cruise report for more detail. Additional SuperAce reports available upon request.
6. **Timber Description:** All areas are predominantly Douglas-fir stands around 70-90' tall and 12 inches diameter. The volume per acre is variable with portions of the stands having tanoak, western hemlock, and minor amounts of other tree species. These stands are 50 - 56 years old, having been harvested between 1966 and 1972. The merchantable species will be mostly Douglas-fir, with some western hemlock. The cruise report gives a breakdown of log lengths and scaling diameters by species for the areas in the cruise. Stand management objectives are to remove the smaller trees in suppressed and intermediate canopy positions and to release dominant and co-dominant trees and improve the quality of the residual stand.
7. **Topography and Logging Method:** The majority (76%) of the sale can be logged with cable logging equipment, while 24% can be ground based, operating on slopes 30% and less. Existing skid roads should be used whenever possible. Cable corridors will have to be planned carefully to maximize operability. See the detailed logging map which shows the logging plan. No new roads will need to be constructed, sufficient haul and skid roads are present on site. Historical aerial photographs from the prior harvest are available to assist with locating previously used skid trails and roads within the timber sale boundary.
8. **Access:** From Port Orford, proceed 3 miles north on Highway 101, turn right (east) onto Elk River Road. Proceed 14.8 miles on Elk River Road, turn right (south) onto USFS 5502 road for 11.1 miles until the 220 spur. Proceed south on the 220 road for 0.6 mile until you enter Area 1. The 223 road into Area 2, and 226 road through Area 2 is drivable. As of March 2022, the 220 is open to passenger vehicles shy of point P. Most spur roads are very brushy, though the 220 from point O to point V is accessible by ATV.
9. **Projects:** Road and landing construction and improvement, and construction of a retaining wall. . Total cost for these projects is \$230,279. Subsoiling Primary Skid Roads and New Construction as indicated on maps along with any primary skid roads used extensively enough to create a compacted road bed.
10. **Road Maintenance:** Normal road maintenance during operations.
11. **Other Costs:** Weed washing and slash piling, accounted for in the projects/appraisal.
12. **Slash Disposal:** Purchaser shall pile slash on landings and the tractor ground with an excavator or log loader or alternatively, spread slash throughout the units less than 18" in depth with a goal of 85% ground cover; sorting out firewood is required, utilize pieces of woody debris for down wood in the unit. USFS will burn the slash piles.

OREGON DEPARTMENT of FORESTRY CRUISE REPORT

- 1. Acreage Calculation:** For the North Lobster GNA Timber Sale, there are 269 net cruise acres in the sale area determined by a combination of GPS traverse waypoints and ArcGIS Pro software. Net acres do not include the riparian management areas, regeneration areas within the stand, and low-stocked areas which were not cruised. The 19 acres of low stocked areas are within the timber sale boundary but likely lack necessary basal area to be treated. Purchasers may treat low stocked areas following the thinning prescription if sufficient basal area is present.
- 2. Cruise Method:** Cruising was completed by ODF during January 2021. A variable plot cruise was conducted on the sale area.
- 3. Sampling Intensity:**
Plots 101 Total Plots (31 Measured, 68 Count Plots, and 2 Blank Plots)
CV (BDFT) 86% (total)
SE (BDFT) 5.6% (total)
As per ODF standards, total harvest volume of conifers ("take" trees) is estimated to be 17,927 tons \pm 1,004 tons (2,423 MBF \pm 136 MBF) at the 68% confidence level and a sampling error of 5.6%. The volume estimate will be within 16,923 tons and 18,931 tons 68% of the time.
- 4. Computation Procedures:** Volume was computed using the SuperAce cruise program. Volumes reported are based on the Scribner Log Rule (West), and tonnage calculated by 7.4 tons per MBF.
- 5. Form Factors:** Form factors (a ratio of diameter at 4 and 16 feet) were sampled across the diameter distribution in all strata.
- 6. Height Standards:** Conifer trees were measured for total height with a laser rangefinder.
- 7. Diameter standards:** Diameters were measured outside bark at breast height to the nearest inch.
- 8. Grading System:** Trees were graded primarily as 34 foot segments lengths and according to the Official Log Scaling and Grading Rules published by the Northwest Log Rules Advisory Group.
- 9. Merchantable top:** Conifer were graded to a merchantable top specified by the official log scaling rules. 2S segments were graded to a 12" top inside bark, 3S to a 6" top, and 4S to a 5" top (inside bark).
- 10. Deductions for Cull, Defect and Breakage:** All visible field cull was removed in the cruise computation. Additional volume was deducted for the anticipated amount of hidden cull and breakage during logging. The estimated volume reduction used for this anticipated loss to volume was 4%.
- 11. Cruisers:** Cruising was performed by ODF foresters.

*ODF does not guarantee the volume of this or any other cruise. Prospective purchasers are advised to do their own cruise and sale volume calculations. Additional SuperAce Reports available upon request.

Species (Take)	Unit	CRUISE VOLUME PER ACRE			Vol/Acre	ADJUSTED VOLUME MBF/ACRE*			NET ACRES	TOTAL VOLUME MBF**			Total Volume		
		2 Saw	3 Saw	4 Saw		2 Saw	3 Saw	4 Saw		2 Saw	3 Saw	4 Saw			
DF	1		1,478	3,325	4,803	15	0	1,419	3,192	31	0	52,390	98,952	151,342	
DF	2		1,347	2,881	4,228	14	0	1,293	2,766	52	0	77,815	143,820	221,635	
WH	2		261	147	408	1	0	261	147	52	0	13,572	7,644	21,216	
DF	3	703	8,300	4,674	13,677	24	675	7,968	4,487	43	29,020	370,674	192,943	592,637	
DF	4		2,751	5,373	8,124	18	0	2,641	5,158	43	0	130,121	221,797	351,919	
WH	4		119	51	170	<1		119	51	43	0	5,117	2,193	7,310	
DF	5		8,594	7,549	16,143	25	0	8,250	7,247	5	0	49,323	36,235	85,558	
DF	6	251	5,443	3,038	8,732	16	241	5,225	2,916	70	16,867	392,519	204,154	613,539	
WH	6	145	359	67	571	<1	145	359	67	70	10,150	25,130	4,690	39,970	
DF	7		7,081	4,999	12,080	27	0	6,798	4,799	25	0	182,503	119,976	302,479	
WH	7		663	733	1,396	2	0	663	733	25	0	16,575	18,325	34,900	
Sale Volume											269.0	56,037	1,315,740	1,050,728	2,422,505

*Adjusted 4% for hidden cull and breakage

**Patch Cut volume added as DF 3s

SALE VOLUME BY GRADE MBF				
Species	2 Saw	3 Saw	4 Saw	Total
DF	45,887	1,255,346	1,017,876	2,319,109
WH	10,150	60,394	32,852	103,396
Sale Volume	56,037	1,315,740	1,050,728	2,422,505

SALE VOLUME BY GRADE TONS				
Species	2 Saw	3 Saw	4 Saw	Total
DF	340	9,290	7,532	17,161
WH	75	447	243	765
Sale Volume	415	9,736	7,775	17,927

SALE VOLUME BY GRADE PERCENTAGE				
	2 Saw	3 Saw	4 Saw	Total
DF	2%	52%	42%	96%
WH	0%	2%	1%	4%
Sale Volume	2%	54%	43%	100%

ODF does not guarantee the volume of this or any other cruise. Prospective purchasers are advised to perform their own cruise and appraisal. These volumes reflect merchantable saw logs. A small amount of pulp logs could be harvested from the sale area.

**Summary of Construction Costs
North Lobster GNA**

Project 1A: Road Improvement

Points: A - X Length: 44000' Type: Rocked Mainline

Road brushing	<u>50</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$5,000.00</u>
Excavator, ditch cleaning + widening	<u>16</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$2,640.00</u>
Grader, maintenance grading	<u>16</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$1,440.00</u>
Dump Truck, end haul material	<u>4</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$400.00</u>

Total Project 1A: \$9,480

Project 1B: Road Improvement

Points: X - F Length: 13500' Type: Rocked Mainline

Road brushing	<u>5</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$500.00</u>
Excavator, ditch cleaning + widening	<u>4</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$660.00</u>
Grader, maintenance grading	<u>4</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$360.00</u>
Dump Truck, end haul material	<u>0</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$0.00</u>

Total Project 1B: \$1,520

Project 1C: Road Improvement

Points: F - J Length: 7400' Type: 14' w/ditch

Brushing	<u>14</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$1,400.00</u>
Excavator, ditch cleaning	<u>16</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$2,800.00</u>
Grader, final shaping	<u>4</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$360.00</u>
Dump Truck, end haul excess material	<u>10</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$1,000.00</u>

Total Project 1C: \$5,560

Project 1D: Road Improvement

Points: J - P Length: 10600' Type: 14' w/ditch

Brushing	<u>25</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$2,500.00</u>
Excavator, ditch cleaning	<u>30</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$5,250.00</u>
Cat time - smooth landing surface & compact	<u>4</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$660.00</u>
Grader, final shaping	<u>5</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$450.00</u>
Dump Truck, end haul excess material	<u>20</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$2,000.00</u>
Laborer	<u>1</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$38.00</u>

Total Project 1D: \$10,898

Project 1E: Road Improvement

Points: P - V Length: 8400' Type: 14' w/ditch

Brushing	<u>25</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$2,500.00</u>
Excavator, ditch cleaning - road widening	<u>35</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$6,125.00</u>
Cat time - smooth subgrade	<u>10</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$1,650.00</u>
Grader, final shaping	<u>5</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$450.00</u>
Dump Truck, end haul excess material	<u>25</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$2,500.00</u>
Laborer	<u>5</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$190.00</u>

Total Project 1E: \$14,930

**Summary of Construction Costs
North Lobster GNA**

Project 1F: Road Improvement

Points: J - JA Length: 4300' Type: 14' w/ditch

Brushing	<u>8</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$800.00</u>
Excavator, ditch cleaning	<u>10</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$1,750.00</u>
Cat time - smooth subgrade	<u>5</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$825.00</u>
Grader, final shaping	<u>4</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$360.00</u>
Dump Truck, end haul excess material	<u>2</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$200.00</u>
Laborer	<u>1</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$38.00</u>

Total Project 1F: \$3,973

Project 1G: Road Improvement

Points: JA - JD Length: 2250' Type: 14' w/ditch

Brushing	<u>6</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$600.00</u>
Excavator, ditch cleaning - road widening	<u>15</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$2,625.00</u>
Cat time - smooth subgrade	<u>4</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$660.00</u>
Grader, final shaping	<u>4</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$360.00</u>
Dump Truck, end haul excess material	<u>6</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$600.00</u>

Total Project 1G: \$4,845

Project 1H: Road Improvement

Points: JB - JG Length: 1600' Type: 14' outsloped

Excavator, road widening - stump removal	<u>25</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$4,375.00</u>
Cat time - smooth subgrade	<u>10</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$1,650.00</u>
Grader, final shaping	<u>5</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$450.00</u>
Dump Truck, end haul excess material	<u>10</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$1,000.00</u>

Total Project 1H: \$7,475

Project 1I: Road Improvement

Points: M - MC Length: 1300' Type: 14' outsloped

Brushing	<u>1</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$100.00</u>
Excavator, road widening - stump removal	<u>15</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$2,625.00</u>
Cat time - smooth subgrade	<u>10</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$1,650.00</u>
Grader, final shaping	<u>2</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$180.00</u>
Dump Truck, end haul excess material	<u>4</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$400.00</u>

Total Project 1I: \$4,955

Project 1J: Road Improvement

Points: O - OA Length: 870' Type: 14' outsloped

Excavator, road widening - stump removal	<u>8</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$1,400.00</u>
Cat time - smooth + widen subgrade	<u>6</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$990.00</u>
Grader, final shaping	<u>2</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$180.00</u>

Total Project 1J: \$2,570

Project 1K: Road Improvement

Points: P - PC Length: 3600' Type: 14' outsloped

**Summary of Construction Costs
North Lobster GNA**

Brushing	<u>10</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$1,000.00</u>
Excavator, ditch cleaning - stump removal	<u>10</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$1,750.00</u>
Cat time - smooth subgrade	<u>20</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$3,300.00</u>
Grader, final shaping	<u>6</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$540.00</u>
Laborer	<u>4</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$152.00</u>

Total Project 1K: \$6,742

Project 1L: Road Improvement

Points: Q - QA Length: 350' Type: 14' outsloped

Brushing	<u>1</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$100.00</u>
Excavator, road widening - stump removal	<u>2</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$350.00</u>
Cat time - smooth subgrade	<u>2</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$330.00</u>
Grader, final shaping	<u>1</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$90.00</u>
Dump Truck, end haul excess material	<u>0</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$0.00</u>
Laborer	<u>0</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$0.00</u>

Total Project 1L: \$870

Project 1M: Road Improvement

Points: R - RA Length: 450' Type: 14' outsloped

Brushing	<u>1</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$100.00</u>
Cat time - smooth subgrade	<u>2</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$330.00</u>
Grader, final shaping	<u>1</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$90.00</u>

Total Project 1M: \$520

Project 1N: Road Improvement

Points: V - VD Length: 1600' Type: 14' outsloped

Brushing	<u>12</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$1,200.00</u>
Excavator, road widening- stump removal	<u>10</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$1,750.00</u>
Cat time - smooth subgrade	<u>10</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$1,650.00</u>
Grader, final shaping	<u>4</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$360.00</u>
Laborer	<u>5</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$190.00</u>

Total Project 1N: \$5,150

Project 1O: Landing Improvements

Points: G,H,I,K,L,M,O,Q,R,S,T,JC,JD,JE,JF,JG,MB,MC,OA,PA,PB,PC,RA,VA,VC,VD

Brushing	<u>4</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$400.00</u>
Excavator, widening- stump removal	<u>25</u>	hrs at	<u>\$175.00</u>	per hour	<u>\$4,375.00</u>
Cat time - smooth subgrade	<u>14</u>	hrs at	<u>\$165.00</u>	per hour	<u>\$2,310.00</u>
Grader, final shaping	<u>4</u>	hrs at	<u>\$90.00</u>	per hour	<u>\$360.00</u>
Laborer	<u>4</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$152.00</u>

Total Project 1O: \$7,597

Total Project 1: \$87,085

**Summary of Construction Costs
North Lobster GNA**

Project 2: Road Improvement

Points: Y to X Length: 70750' Type: Rocked Mainline

Road brushing	10	hrs at	\$100.00	per hour	\$1,000.00
Excavator, ditch cleaning + widening	20	hrs at	\$165.00	per hour	\$3,300.00
Grader, maintenance grading	10	hrs at	\$90.00	per hour	\$900.00
Dump Truck, end haul material	2	hrs at	\$100.00	per hour	\$200.00

Total Project 2: \$5,400

Project 3: Retaining wall construction

Location: Point E, Mile 9.2 on 5502 Rd. Type: Welded Wire Retaining Wall

Project 3A	Mobilization		per		\$8,684.00
Project 3B	Survey and Staking,		per		\$1,500.00
Project 3C	Soil erosion & pollution control		per		\$800.00
Project 3D	Clearing and grubbing, disposal of woody material		per		\$1,800.00
Project 3E	Endhaul waste to disposal site at MM12.0	560	cubic yard at	\$8.00	per yard align="right">\$4,480.00
Project 3F	Mechanically stabilized earth wall (welded wire face) with drainage features	880	square feet at	\$55.00	per foot align="right">\$48,400.00
Project 3G	Select weed-free granular backfill - dependent on excavated material quality	560	cubic yard at	\$55.00	per yard align="right">\$30,800.00
Project 3H	Contractor furnished mechanically stabilized earth wall design		per		\$2,500.00
Project 3I	Road reconditioning roadbed		per		\$1,200.00
Project 3J	Aggregate base, grading 1 inch minus	150	cubic yard at	\$84.00	per yard align="right">\$12,600.00
Project 3K	Installation and procurement of 24-inch pipe culvert, aluminized-corrugated steel pipe, 16 gage	36	feet at	\$145.00	per foot align="right">\$5,220.00
Project 3L	Geocomposite sheet drain system, complete with collector and outlet pipe	300	square yard at	\$15.00	per yard align="right">\$4,500.00
Project 3M	Excavation with Rock Hammer	40	hours at	\$179.00	per hour align="right">\$7,160.00
Project 3N	Seeding and mulching, dry method		per		\$1,500.00
Project 3O	Temporary traffic control		per		\$1,600.00

Total Project 3: \$132,744

Move-in

Equipment	Miles	hrs/RT	Lowb or Equip Rate/hr	Total
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**Summary of Construction Costs
North Lobster GNA**

Excavator	60	10	\$125.00	\$1,250.00
Cat	60	10	\$125.00	\$1,250.00
Brusher	60	7	\$100.00	\$700.00
Dump Truck	60	6	\$100.00	\$600.00
Grader	60	10	\$125.00	\$1,250.00

Total Move-In \$5,050

Total Projects \$230,279

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: North Lobster GNA

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Felling				
Felling of unmerch material	acre	10	\$ 80.00	\$ 800
Yarding and Loading				
Brand and paint logs	MBF	2423	\$ 1.00	\$ 2,423
Firewood sorting/slash piling/landing cleanup	landing	29	\$ 125.00	\$ 3,625
Rig tail/lift trees	lift tree	15	\$ 150.00	\$ 2,250
Artificial guy anchors(dozer, skidder)	anchor	2	\$ 500.00	\$ 1,000
Cover landing slash piles w/sheeting	landing	29	\$ 50.00	\$ 1,450
Equipment wash for ground operations	hrs	10	\$ 65.00	\$ 650
Miscellaneous Costs				
Subsoiling 20 inches - skid and temp roads	station	120	\$ 150.00	\$ 18,000
Slash covering of subsoiled roads	station	120	\$ 50.00	\$ 6,000
Subsoil 20 inches - Landings	landing	29	\$ 300.00	\$ 8,700
Equipment move between areas	per hr	20	\$ 125.00	\$ 2,500

Total additional "Other Cost" with additional profit and risk to be added

\$ 47,398

Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
yards				\$ -

Total additional "Other Cost" with no additional profit and Risk





\$ -

**Operating Periods Restrictions Matrix for
North Lobster GNA
CS-341-2022-GF8518-01**

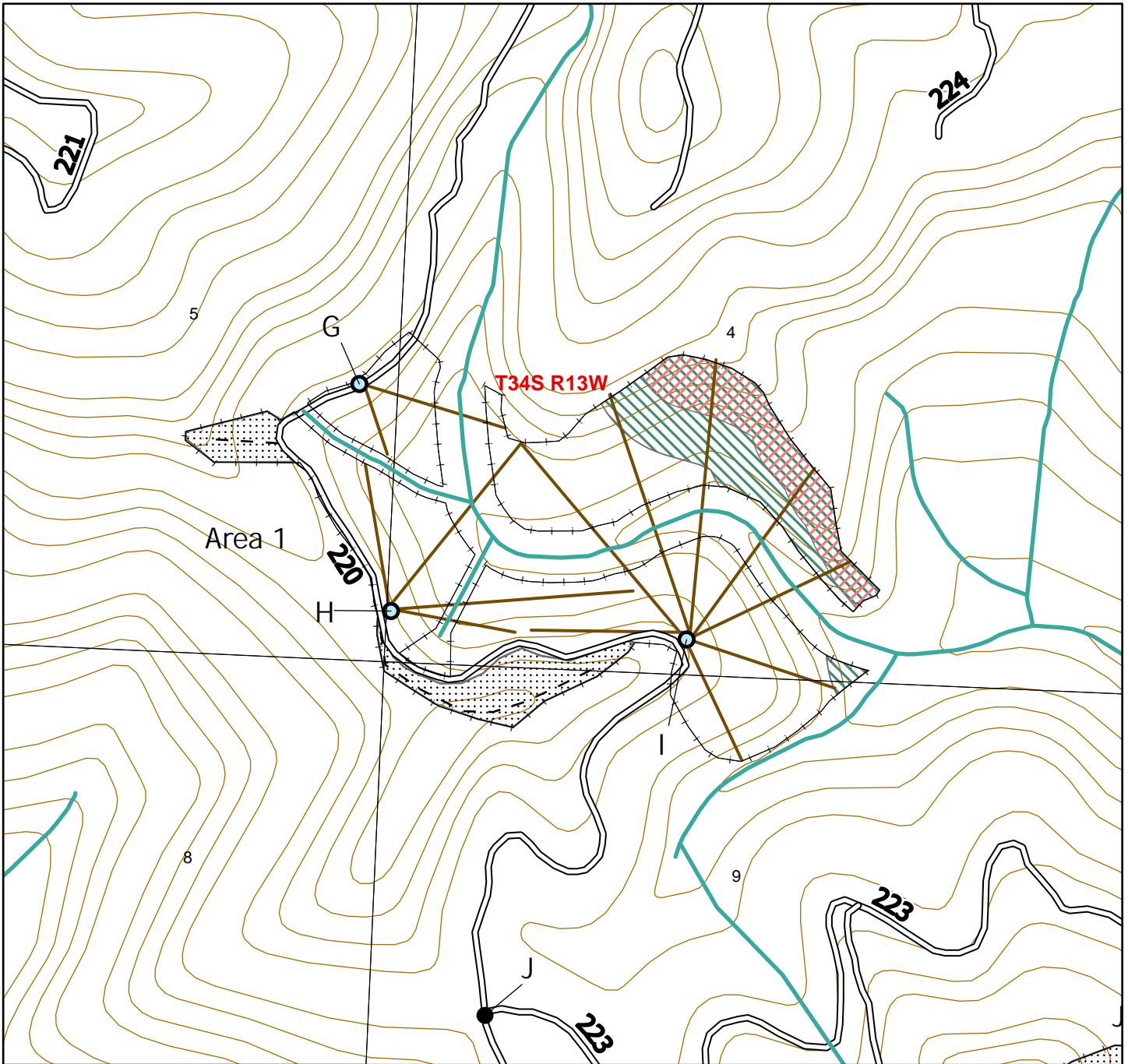
	January		February		March		April		May		June		July		August		September		October		November		December					
					1st				1st		15th	16th					5th	6th	15th	16th	14th	15th						
Harvesting																												
Ground-based Yarding																												
Cable Yarding from unsurfaced landings or roads.																												
Internal combustion use in MaMu Seasonal Restriction areas (felling, yarding, etc).																												
Internal combustion use in NSO Seasonal Restriction areas (felling, yarding, etc).																												
Felling outside seasonal restriction areas																												

	January		February		March		April		May		June		July		August		September		October		November		December					
					1st				1st		15th	16th					5th	6th	15th	16th	14th	15th						
Hauling																												
Log Hauling on 220 road south of Point J																												
Haul on unsurfaced roads																												

	January		February		March		April		May		June		July		August		September		October		November		December					
					1st				1st		15th	16th					5th	6th	15th	16th	14th	15th						
Project Work																												
Projects 1A, 1B, 1D, 1E, and 2 on surfaced roads outside Seasonal Restriction areas																												
Project 1C, road improvement from Point J to Point P.																												
Projects on surfaced roads inside Seasonal Restriction areas																												
Project 1G, 1I, 1K, 1L, 1M, 1N on unsurfaced roads outside Seasonal Restriction areas																												
Project 3 (5502 retaining wall)																												
Internal combustion use in NSO Seasonal Restriction areas.																												
Internal combustion use in MaMu Seasonal Restriction areas.																												

 Operations Allowed
 Activity Restricted 2 hours before sunset through 2 hours after sunrise
 Operations Prohibited - T & E
 Operations Prohibited for weather conditions: unless otherwise approved in writing by STATE

Operating Matrix represents the seasonal restrictions contained within the body of the timber sale contract. See Section 2455 for further information on seasonal restrictions.



- Streams
- Cable Corridors
- Landing
- Ground Based Logging
- Road Point
- Low Stocking
- Sale Boundary
- NSO Seasonal Restrictions
- MaMu Seasonal Restrictions
- System Roads
- Temp Roads
- Skid Road

LOGGING PLAN 1 of 7

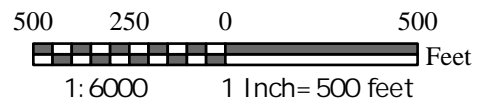
Sale No. CS-341-2022-GF8518-01
North Lobster GNA

Section 4, 5, 8, 9, 16, 17, and 21
T34S, R13W, W.M

Curry County, Oregon

Regulated Use Area SK-2

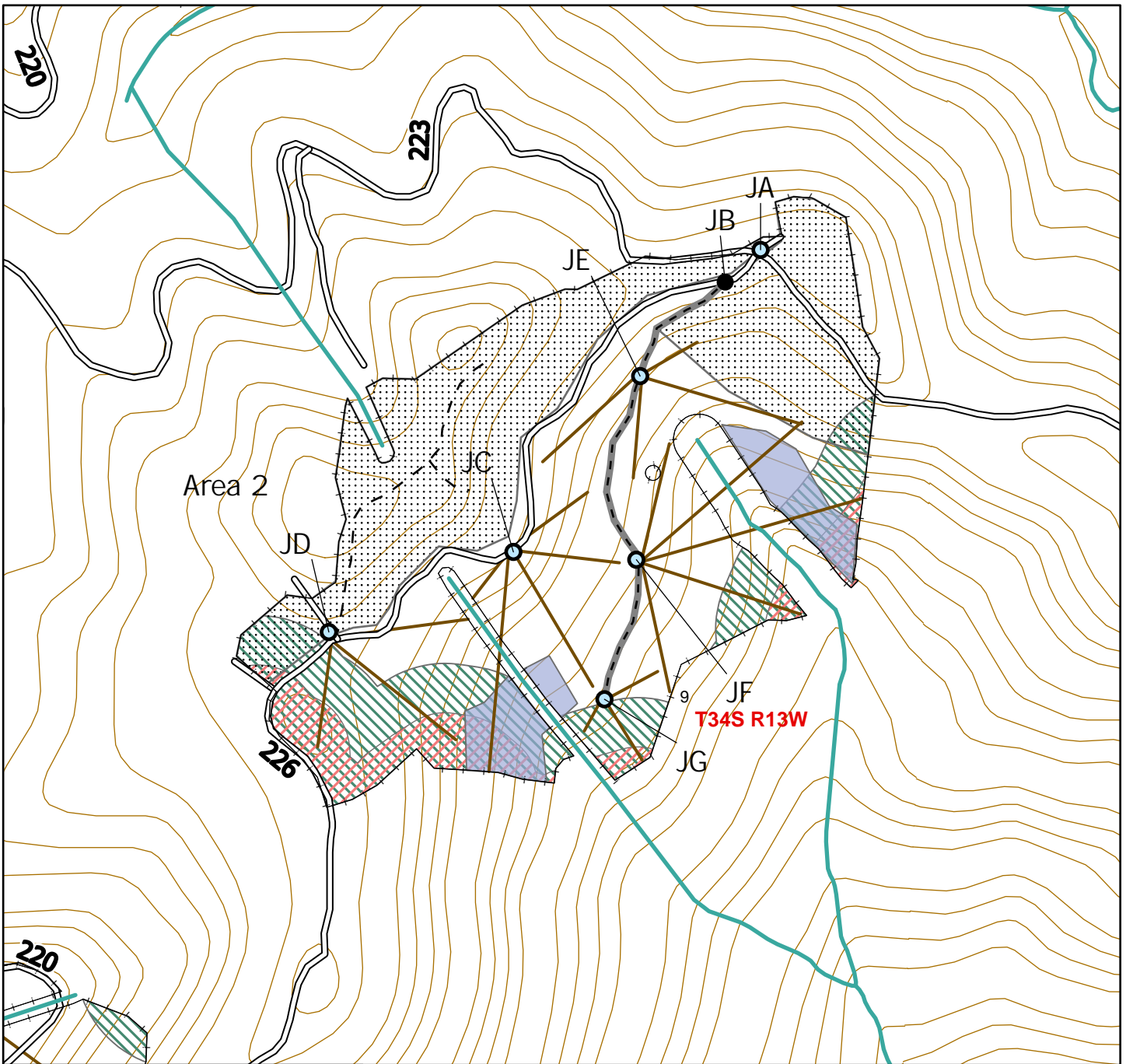
40 Foot Contours



The information shown on Exhibit "A" map(s) are approximate locations. Exact locations of features represented by map symbols will be determined on site and shall depend upon the conditions that exist on site. Activities shall be conducted based upon features determined on site rather than features shown on maps.

Acreage by Area

Area	Low Stocked Acres	Harvest Acres	Total Acres
1	0	31	31
2	4	52	56
3	1	43	44
4	4	43	47
5	0	5	5
6	9	70	79
7	1	25	26
Total:	19	269	288



- Streams
- Cable Corridors
- Landing
- Ground Based Logging
- Road Point
- Low Stocking
- Sale Boundary
- NSO Seasonal Restrictions
- System Roads
- MaMu Seasonal Restrictions
- Temp Roads
- Skid Road

LOGGING PLAN 2 of 7

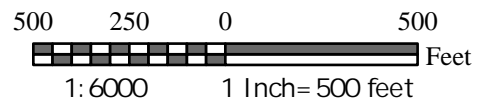
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North Lobster GNA

Section 4, 5, 8, 9, 16, 17, and 21
T34S, R13W, W.M

Curry County, Oregon

Regulated Use Area SK-2

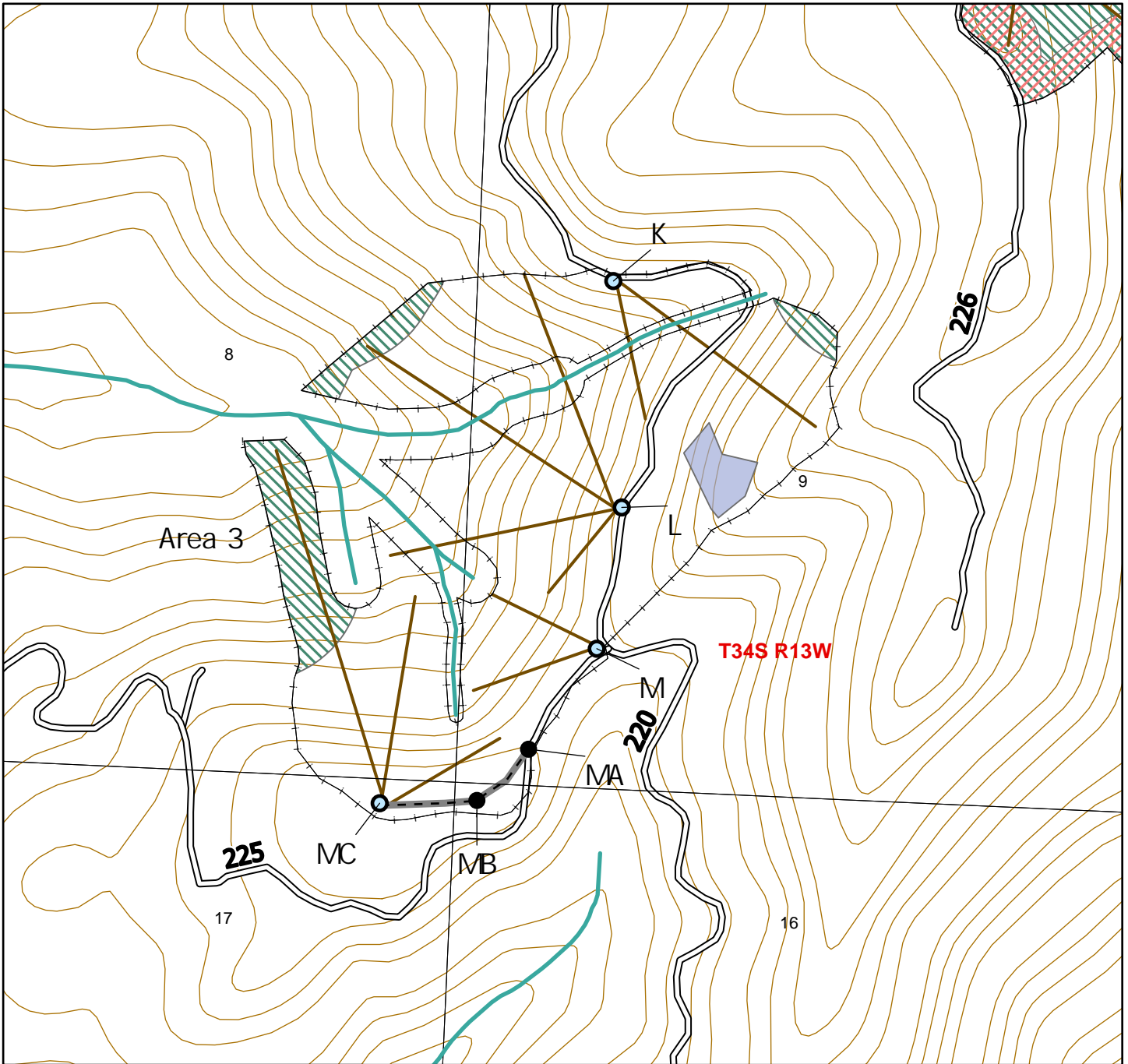
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2	4	52	56
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7	1	25	26
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- Streams
- Cable Corridors
- Landing
- Road Point
- Sale Boundary
- System Roads
- Temp Roads
- Skid Road
- Ground Based Logging
- Low Stocking
- NSO Seasonal Restrictions
- MaMu Seasonal Restrictions

LOGGING PLAN 3 of 7

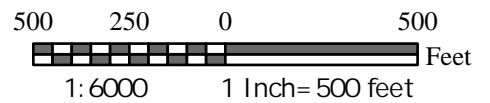
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North Lobster GNA

Section 4, 5, 8, 9, 16, 17, and 21
T34S, R13W, W.M

Curry County, Oregon

Regulated Use Area SK-2

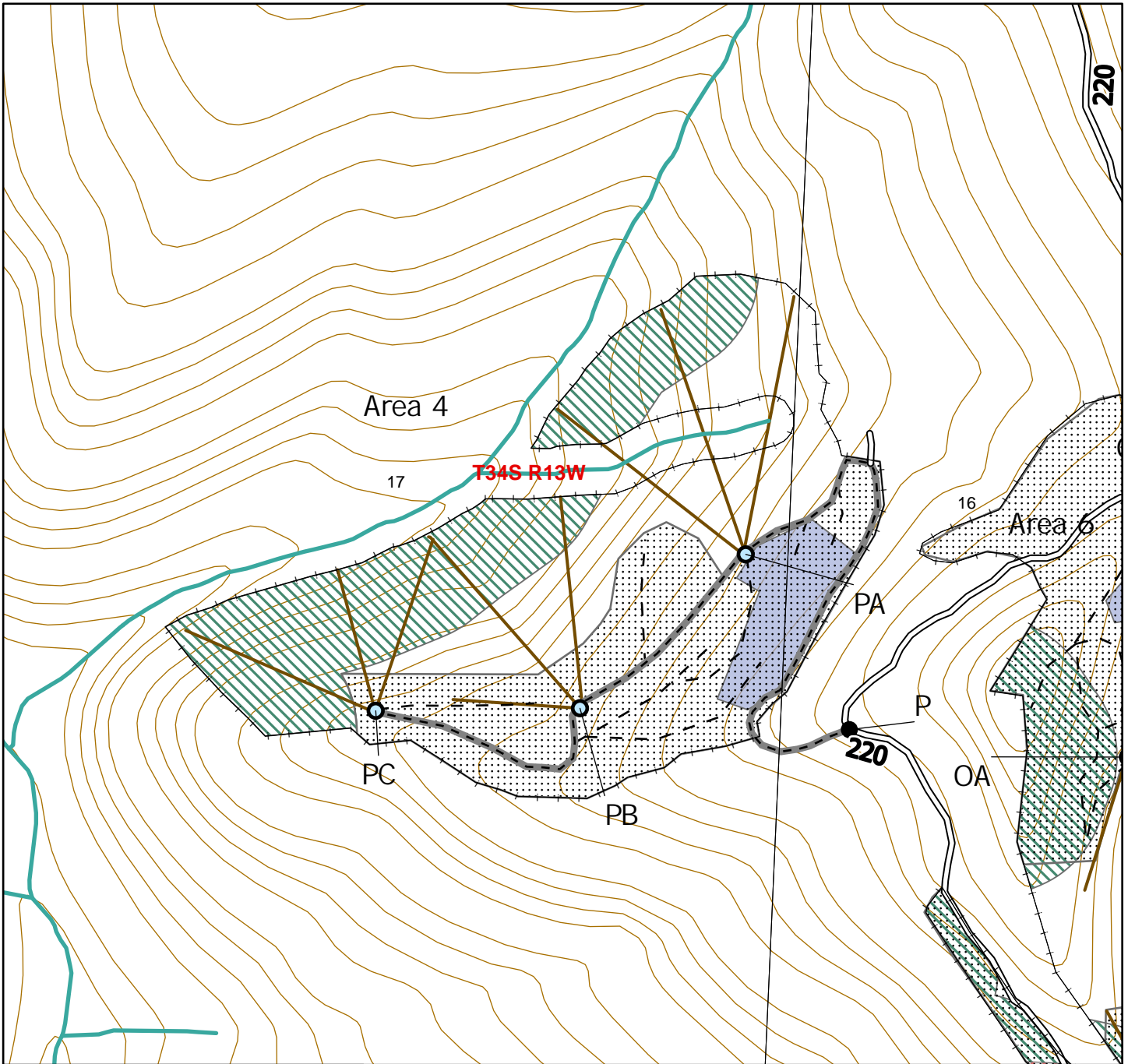
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7	1	25	26
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- Streams
- Cable Corridors
- Landing
- Ground Based Logging
- Road Point
- Low Stocking
- Sale Boundary
- NSO Seasonal Restrictions
- M&M Seasonal Restrictions
- System Roads
- Temp Roads
- Skid Road

LOGGING PLAN 4 of 7

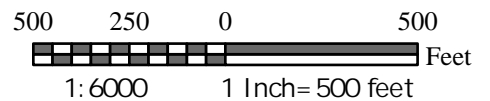
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North Lobster GNA

Section 4, 5, 8, 9, 16, 17, and 21
T34S, R13W, W.M

Curry County, Oregon

Regulated Use Area SK-2

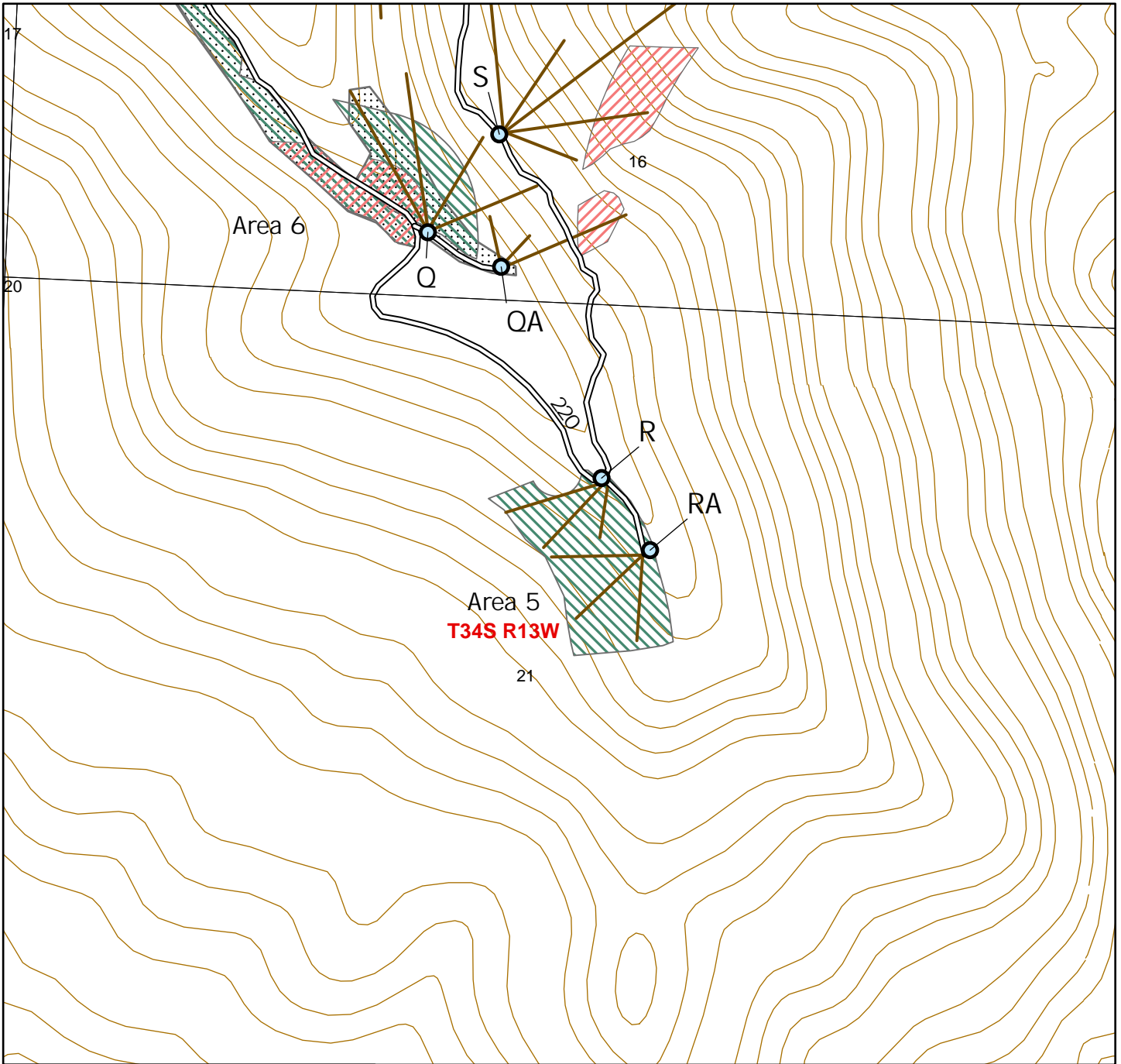
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- Streams
- Skid Road
- Sale Boundary
- MaMu Seasonal Restrictions
- NSO Seasonal Restrictions
- Low Stocking
- Ground Based Logging
- Roads
- Project Points**
- Landing
- Road Point

LOGGING PLAN 5 of 7

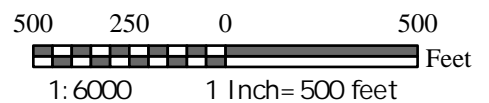
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Curry County, Oregon

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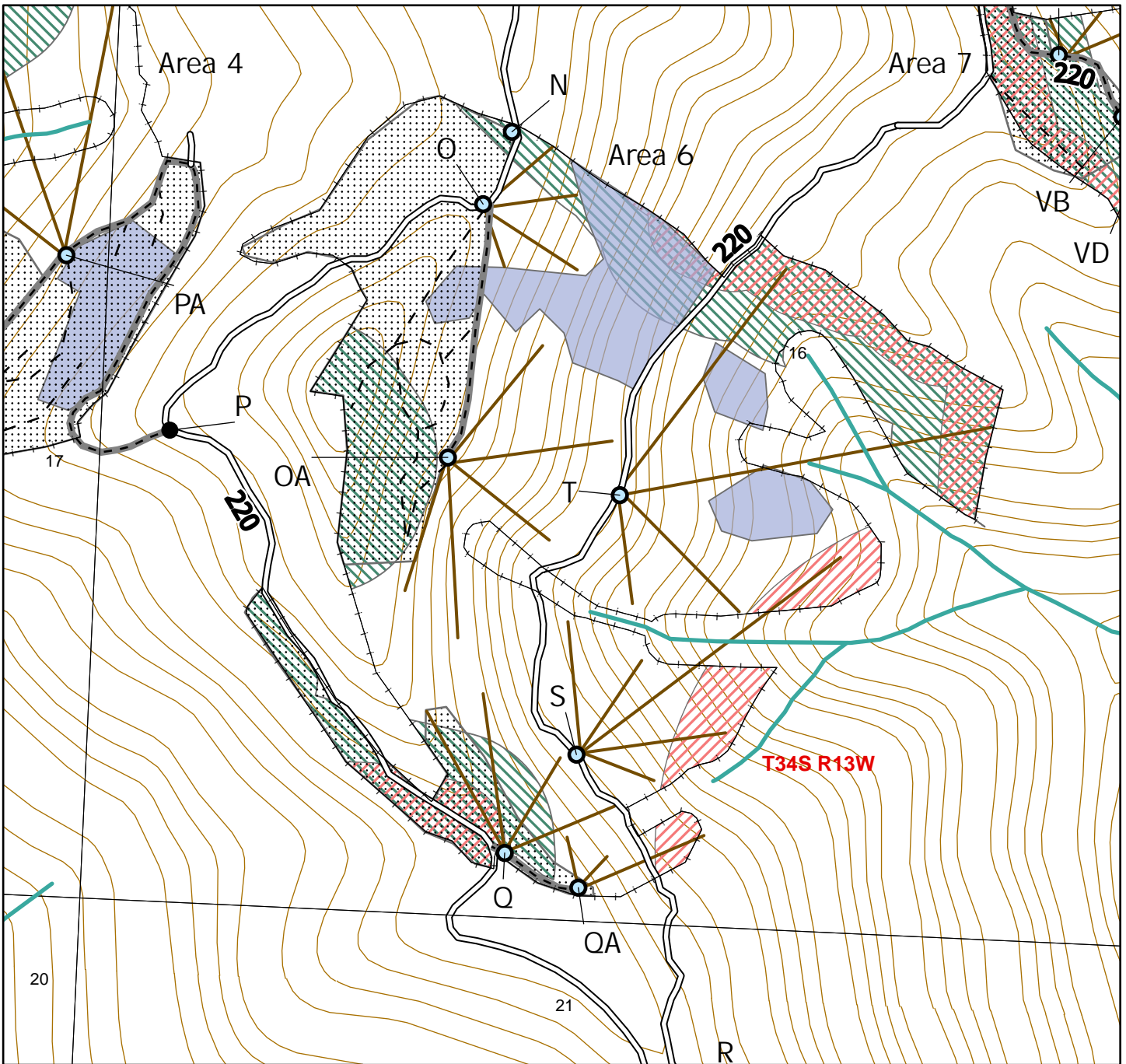
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- M&M Seasonal Restrictions
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LOGGING PLAN 6 of 7

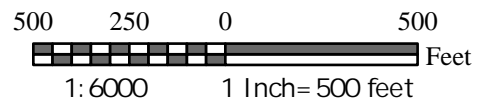
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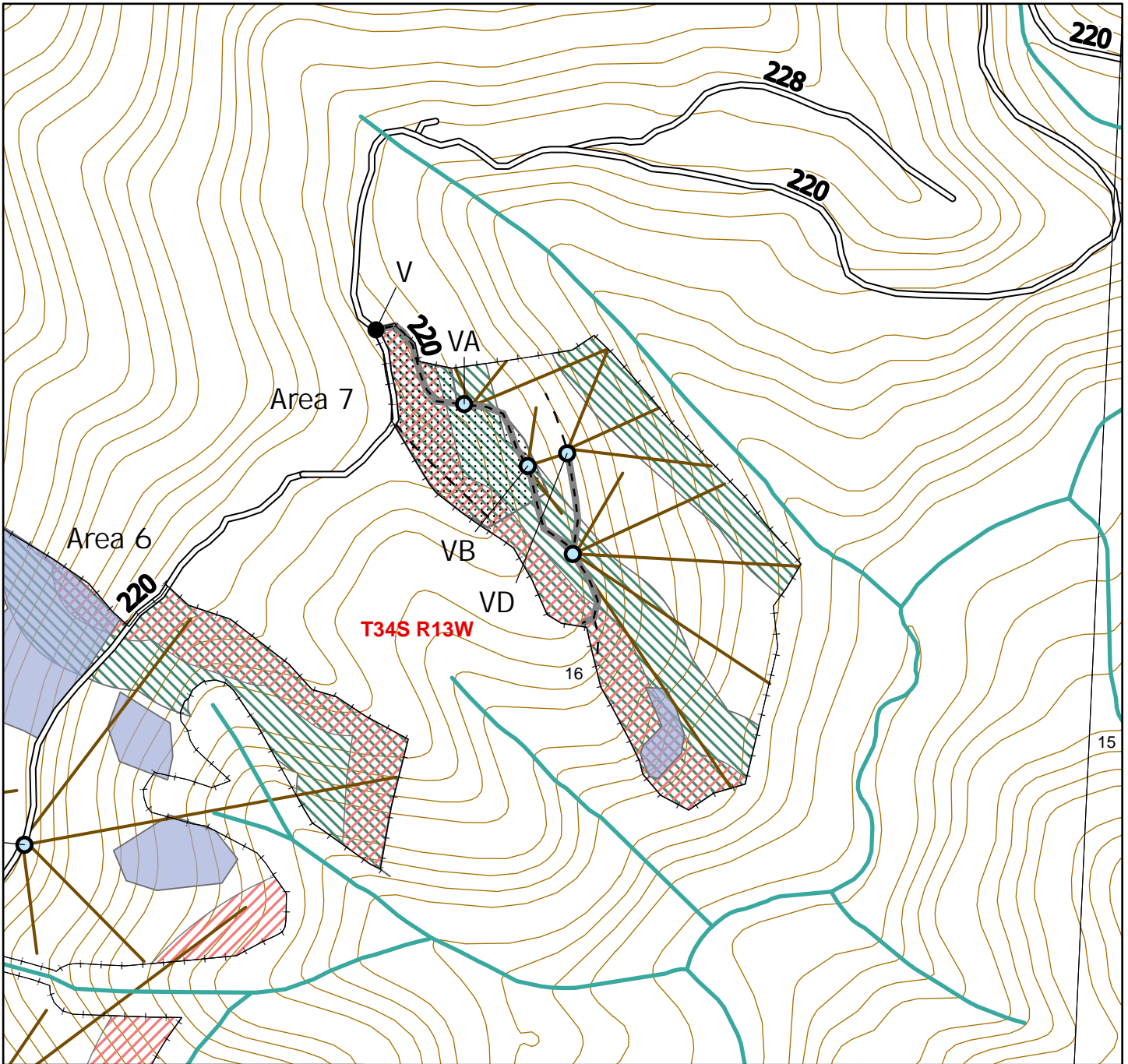
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- MaMu Seasonal Restrictions
- System Roads
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- Skid Road

LOGGING PLAN 7 of 7

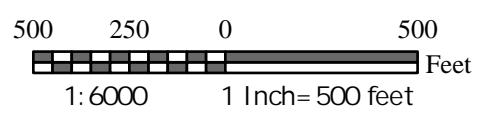
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