

Pre-Operations Report

Operation Name: Downtown (Alternate)

Legal: Portions of Sections 4, 3, 10, T2S, R7W, W.M., Tillamook County, Oregon

Management Basin: Trask

SAH Status: None

FDF: 100% BOF

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres ¹
1	Partial Cut - Moderate	230	220
2	Modified Clearcut	148	120
		378	340

1. The net acres are based on orthophotos and GIS and exclude all roads and stream buffers.

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes have a southwest aspect and range from 20-60% with several small areas, less than 5 acres ranging from 70-90%. Elevations range from 880 feet to 1,700 feet. The major soil type is Killam with minor areas of Watseco.

II. CURRENT STAND CONDITION:

Table 2. Stand Inventory Information⁴

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Net Acres ²
1	PC	214	DF, RA	39	13	192	202	53	220
		Target ³	DF, RA		15	110	175	33	
2	MC	215	DF, RA	45	14	116	114	33	120

1. The source of stand inventory information is from timber cruise data.

2. The net acres are based on orthophotos and GIS and exclude roads, and stream buffers.

3. The Target identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

4. These numbers are based on plot data taken to this point and final numbers may differ significantly. The directive for minor and major modifications will be followed for further review.

The sale areas burned in the 1933 Tillamook Fire and the 1939 Saddle Mountain Fire. Excluding a small portion in the NW corner, approximately 60% to 70% of the sale area also burned in the 1951 North Fork/Elkhorn fire.

Area 1 was planted in 1967-68. Area 2 was seeded in 1961-62. Area 1 was precommercially thinned in 1992 resulting in dense patches of Douglas-fir with deep crowns. Area 2 is a more mixed Douglas-fir and alder stand. The Douglas-

fir is lower quality than Area 1 since no previous density management has occurred. Area 2 also has bear damage throughout the sale area. A detailed timber sale cruise is being completed at this time by contract. More information will be available at that time.

Stand Level Inventory (SLI) was completed on portions of Area 2. According to SLI the sale area has a stand type classification of Closed Single Canopy (CSC). The brush component of the sale is comprised of sword fern, vine maple and elderberry.

The Douglas-fir shows symptoms of Swiss needle cast but has good live crown ratios (greater than 35%) due to precommercial thinning in 1992 on Area 1. On both areas the Douglas-fir is becoming overstocked resulting in the loss of live crown and slowed diameter growth. Area 2 has missed the opportunity for thinning and had no previous management.

There are some large snags in various states of decay and a few hard snags created from natural causes. Additionally, there are 5.8 snags per acre with a DBH greater than 12” and no snags with a DBH greater than 24”. Many snags were observed throughout Area 2 which are the result of bear damage. According to current SLI information, there is 105 cubic feet of down wood per acre in decay classes 1 and 2 and a total of 2,989 cubic feet per acre.

DESIRED STAND CONDITION AND VISION:

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Net Acres
1		CSC	UDS	GEN/ LYR	220
2		CSC	REG	LYR	120

1. The stand is expected to develop into this condition in the five to ten years after this operation is completed except in REG stands which occur after harvest.

See Section IV: Proposed Management Prescription for more information on Green Tree, Down Wood, and Snag Strategies during operation. Also refer to Landscape Design in the Summary document for more information on strategies to move the district toward Desired Future Condition (DFC) goals.

Sub-basin

The sale is within the Bark Shanty sub-basin or the North Fork Trask. Directly to the northeast of the sale has been hundreds of acres of partial cuts in the last 10 years. More recent clearcuts have occurred to the south and west of the sale area to address concerns of Swiss needle cast. After the completion of Downtown sale, there is not much opportunity for additional harvest in next five years except to harvest additional acres of sprayed alder.

The Desired Future Condition (DFC) for Area 1 is approximately 30% Layered (LYR) and 70% General (GEN). Area 2 DFC is 100% Layered.

Short term vision:

The short term vision for Area 1 is to lower stand density and retain healthy Douglas-fir with deep crowns. Alder will be reserved and found in distinct pockets in the sale areas. Area 2 will remove lower quality Douglas-fir and alder creating large openings with one age class which will be planted with mixed conifer. The new stand will contain older legacy trees in the overstory which will provide a source of down wood and snags over time. The terrain is broken due to steep draws and cliffs in the stand. The terrain does not allow for easy multiple entry management in addition to the poor stand qualities.

Long term vision:

The longer term vision of Area 1 is to return in 12-15 years for second entry to thin the conifer and remove mature alder to create gaps for a second cohort.

Area 2 will contain a new stand which will be managed through precommercial thinnings and possibly commercial thinnings in the future. Large decadent alder will also persist in the riparian after harvest.

III. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

The prescriptions described below are based on the current stand condition such as overall tree and stand growth, species mix, stand density, and stand health. **See Table 2 for prescription targets.**

Prescription

Area 1

Pockets of dense conifer will be thinned to a residual basal area of 100-120 square feet. Preference will be given to retain minor species like hemlock and cedar found scattered in the stand.

Area 2

All merchantable Douglas-fir and red alder will be removed with the exception of those areas located in riparian management zones. A diameter limit will be used to retain Douglas-fir greater than 18" DBH and as well as all other conifer species.

Green Tree

Area 2

Minor conifer species like hemlock, cedar and spruce will be reserved in the sale area. These minor species will be scattered across the harvest unit averaging only 1-2 trees per acre. An additional 3-4 green trees per acre will be reserved, either scattered or in clumps, in the unit and in Green Tree Retention areas.

There are additional areas currently outside the sale boundary due to low stocking and rock outcrops that run toward Bark Shanty Creek. Most green trees will be designated in these areas as Green Tree Retention Areas and retained for a rotation.

Snags

Snags will be reserved unless they are a safety hazard. Early field reconnaissance noted high bear activity resulting in stripped and girdled trees in both areas with the concentration of bear killed trees in Area 2. No additional snags will be created with this harvest.

In addition, enough Douglas-fir trees will be reserved to supplement the existing snags to average 2 per acre in Area 2. Additional trees may be selected in the riparian areas for snag creation depending on further field review of those sites in Areas 1 and 2.

Down Wood

Existing down wood will be left in the sale areas. Down wood will not be created with this harvest due to small size of existing trees. The current down wood will be supplemented by tops left during harvest, bucking out obvious defect in conifer logs, felled snags, mortality, and windthrow of residual trees. Small non-merchantable hardwood and conifer will be retained where possible in harvest units with the expectation they will become short term snags and down wood. Approximately 4 additional green trees per acre will be reserved in Area 2, either within the sale boundary, in the buffers, or in GTRs for future down wood.

Pathway

Area 1

This partial cut entry will move this stand toward a more layered structure. As the future stand matures the trees will add to complexity of sizes, species and densities. These residual trees will also add to snags and down wood over time and through the life of the next stand. Down wood and snags created and reserved in this entry will become more decayed components for the future stand. In turn, we will see a much more complex stand, made up of a greater mix of conifer and hardwood species of differing age and size classes.

Area 2

The initial entry will remove bear damaged conifer and alder with slowed growth and lower quality. The sale area will be bisected by several riparian areas as well as Bark Shanty Creek on the southwest boundary. The new stand will have riparian stringers extending up into the stand. Additional entries are planned in the future stand for density management through pre-commercial and possibly commercial thinning.

IV. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		x
Planned Quarter:		Alt.	

	Conifer	Hardwood	Total
Net Volume (MBF)	1520	396	1916
Stumpage Value (\$/MBF) *	\$175	\$200	
Estimated Gross Value	\$258,400	\$79,200	\$337,600
		Project Costs:	\$61,900
		Estimated Net Value:	\$275,700

V. HARVESTING AND ACCESS CONSIDERATIONS:

The sale areas are accessed via North Fork Trask River Road and Bark Shanty Road. These are currently all weather, crushed rock roads. See maps for specific road locations and conditions.

Approximately 2.1 miles of existing road will be improved which includes grading, rocking, widening, culvert replacement, spot rocking, sidecast pullback, and adding new culverts. This includes approximately 1.4 miles of an existing legacy road, which spurs off from Bark Shanty Road and leads down to Bark Shanty Creek will be improved in order to facilitate ground yarding and a possible alder conversion. Another 0.7 miles of legacy road spurs will be improved in order to facilitate access to cable landing locations on ridgetops. This work will bring all roads up to standards described in *the Forest Roads Manual*.

The Trask River Road Safety Fee will be applied to this sale. See summary document for more information on road closure.

The operation will be approximately 80% cable yarding and 20% ground yarding.

Table 5. Transportation Planning Summary (Miles)⁴

Activity	Mainline	Collector	Rocked Spur ¹	Dirt Spur ¹
Construct				
Improve		2.1		
Maintain ²		9.0		
Close/Block ³		0.7		
Vacate ³				

1. *Additional roads may be built by the operator at the time of harvest and will be approved by the State through the Operations Plan. These will be short dead end spurs and closed or blocked after harvest*
2. *All roads accessing the sale area will be maintained during the life of the timber sale contract. Maintenance miles in the table are those roads not being constructed or improved.*
3. *Roads not closed/blocked or vacated at the end of the sale will be reviewed for closure after reforestation is established.*
4. *The numbers in this table reflect planned Project Work associated with the sale.*

VI. AQUATIC RESOURCES AND WATER QUALITY:

A watershed analysis has been completed for the Trask basin. A riparian hardwood conversion is being considered along Bark Shanty Creek. The watershed analysis recommends removing alder dominated areas and getting conifer established in riparian zones. Consultation with the ODF Riparian Specialist and ODFW will take place to determine if this is an appropriate location for a hardwood riparian conversion.

Bark Shanty Creek is a large type F stream adjacent to SW sale boundary and Elk Creek is a medium type F stream adjacent to NW sale boundary. It will be necessary to hang across Bark Shanty Creek and appropriate measures will be taken protect this stream. There are additional unnamed small perennial and seasonal Type N streams within the sale areas. These streams will be reviewed and protected appropriately during sale layout based on flow, topography, and terrain. The inner and outer riparian zones of these Type N streams will be managed towards mature forest condition.

The Oregon Department of Fish and Wildlife (ODFW) will be requested to complete stream surveys prior to sale layout. Streams of unknown status will be treated as Type F until surveys are completed to verify fish use.

Stream buffers within or adjacent to harvest unit boundaries will be managed according to *Forest Management Plan* Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

Refer to Aquatic Resource Protection Strategies in the Summary document for information on in the “in stream work period’ road work and stream improvement projects.

VII. T&E SPECIES CONSIDERATIONS:

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist. Surveys for marbled murrelets and northern spotted owls are not required due to the absence of potentially suitable habitat. Spotted Owl surveys are not required as the sale is within the interior of the Tillamook burn and the average DBH of the trees in this sale are below that which is required for surveys

(see November 2002 ODF Policy Guidance: *Northern Spotted Owl Surveying on State Forest Lands*).

T & E Plant species: The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known threatened or endangered listed plant locations as well as local records in the Land Management Classification System (LMCS). No listed plants were identified within or adjacent to the sale areas.

VIII. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based on analysis of USGS 1:24,000 topographic maps.

There are high landslide hazard locations scattered throughout the sale. The western portion of Area 1 drains into Elk Creek and the remainder of the sale drains into Shanty Creek. The risk of landslides delivering directly from the sale to Elk Creek and Shanty Creek is moderate to high. Portions of the sale appear to be located on large, deep-seated landslide landforms.

The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

There are a few bands of steep to very steep side slopes and draws located in the sale area. The initial risk assessment by the geotechnical specialist for the sale is moderate. The geotechnical specialist will be consulted during sale layout field work to determine if a field visit is necessary.

IX. RECREATION RESOURCES:

The sale areas are designated as Motorized in the *Tillamook State Forest Comprehensive Recreation Plan* (1993). This sale has been reviewed by the District Recreation Coordinator. There are a few user created trails used for hunting. Additionally, there are several remnant and active hunting camps within the sale area.

X. CULTURAL RESOURCES:

The *Tillamook State Cultural Assessment* does not list any cultural sites within the proposed sale boundary. If any sites are identified, the Public Use Coordinator will be contacted.

XI. SCENIC RESOURCES:

The sale areas have a visual classification of Level 3, low sensitivity. No scenic impact is expected.

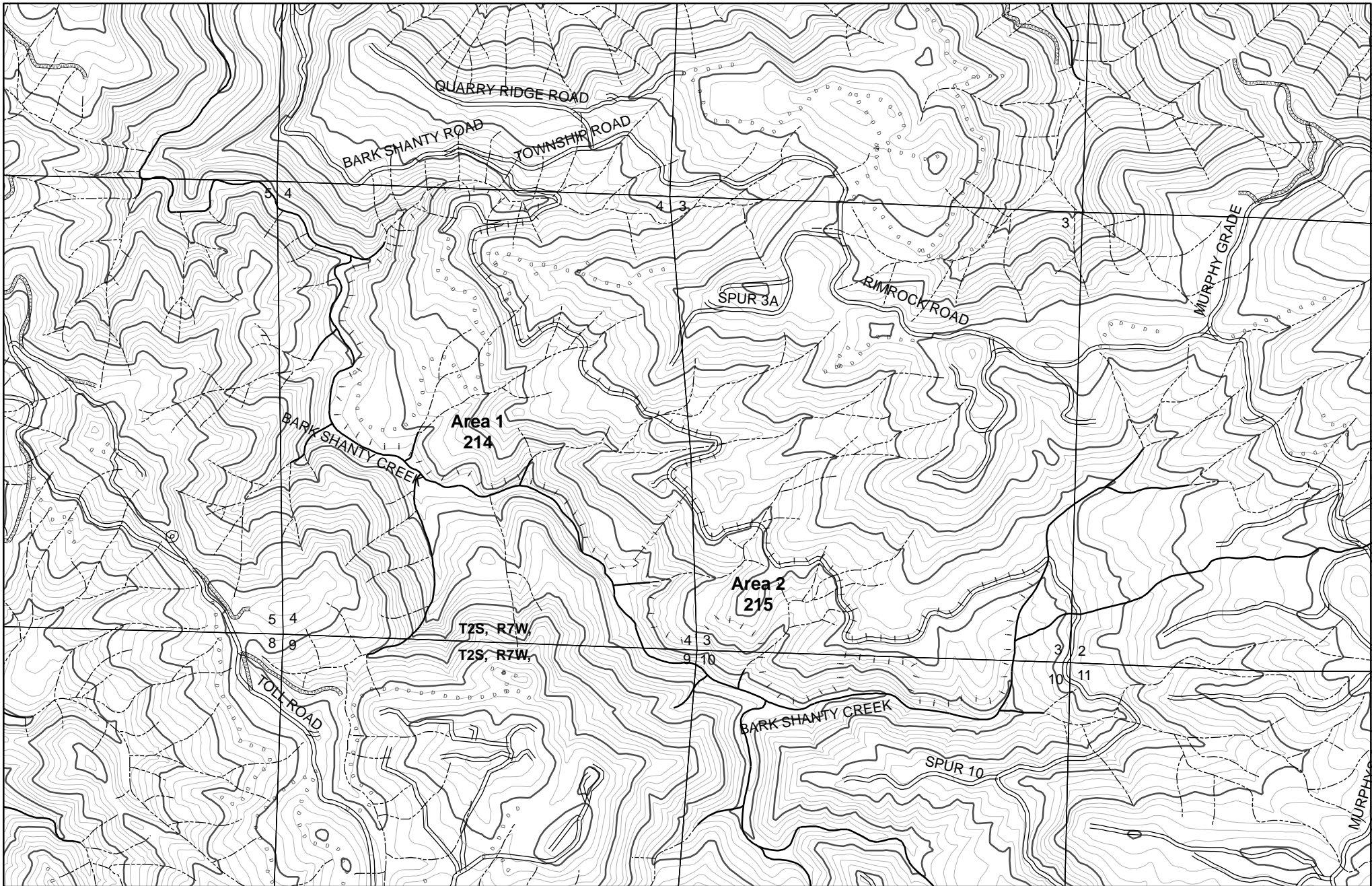
XII. OTHER RESOURCE CONSIDERATIONS:

There are three SNC research plots located within the sale boundary. All three research plots are located in the northwest portion of the sale, with sizes of 9, 3 and 2.6 acres respectively. The research areas will be buffered during sale prep and protected during harvest activities. There is one permanent plot located adjacent to the northwest sale boundary. The permanent plot has not yet been located. This will be done during sale prep with field notes taken on exact location and markers found.

XIII. LAND MANAGEMENT CLASSIFICATION SUMMARY:

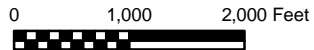
The sale area contains Focused and Special Aquatic Habitat. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized.

Boundary lines depicted on Attachment C are approximate; exact locations and site specific management activities will be determined during the sale preparation process.



Contour Interval 40'

- Area boundary
- ! ! Sale boundary
- Ownership boundary
- Perennial Type-F stream*
- - - Perennial Type-N stream*
- == Unsurfaced road
- == Surfaced road
- State/Federal highway
- Legacy road
- o o o Blocked road
- - - Road construction
- County road
- ; ; Transmission line



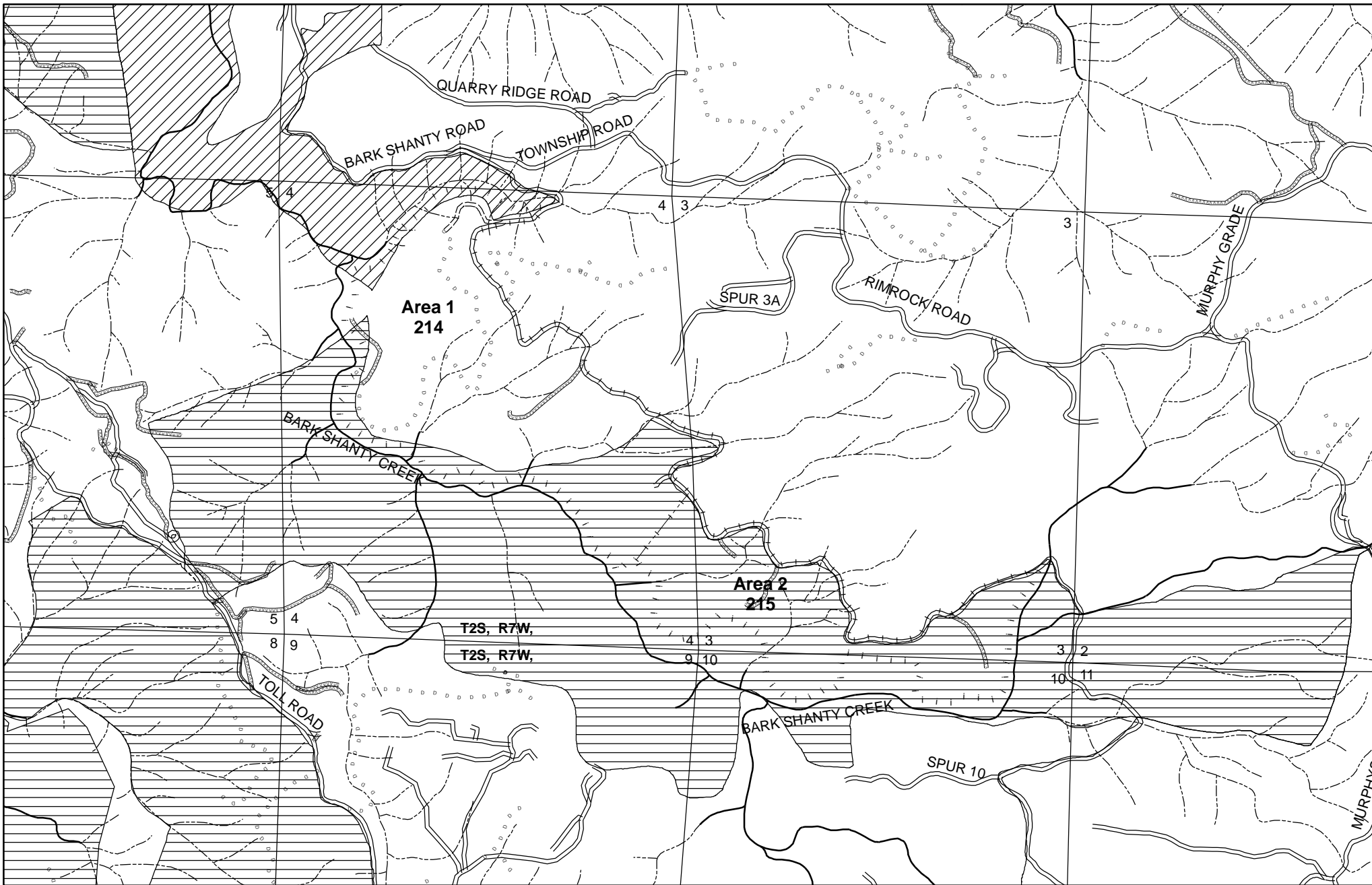
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**Downtown
-- Topography --
2009 SALE PLAN
TILLAMOOK DISTRICT**
Portions of Sections 3, 4 and 10
T2S, R7W, W.M.,
Tillamook County, Oregon

*Streams of unknown fish presence are not shown but will be surveyed prior to the sale

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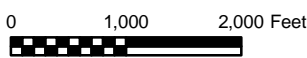
Area	Type of Operation
1	Partial Cut
2	Modified Clearcut



Desired future condition
 Layered
 Older forest

- - - Area boundary
- ! ! Sale boundary
- - - Ownership boundary
- Perennial Type-F stream*
- - - Perennial Type-N stream*
- == Unsurfaced road
- Surfaced road
- State/Federal highway

- Legacy road
- Blocked road
- Road construction
- County road
- Transmission line



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Downtown -- Current and Future Condition -- 2009 SALE PLAN TILLAMOOK DISTRICT

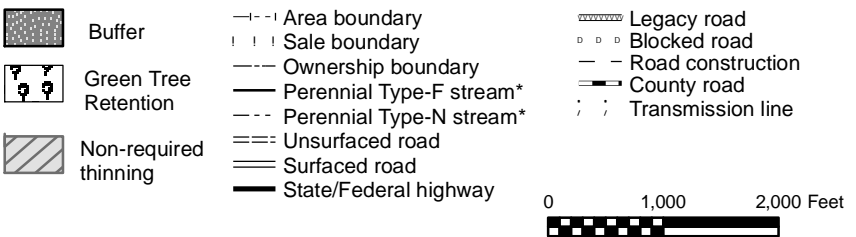
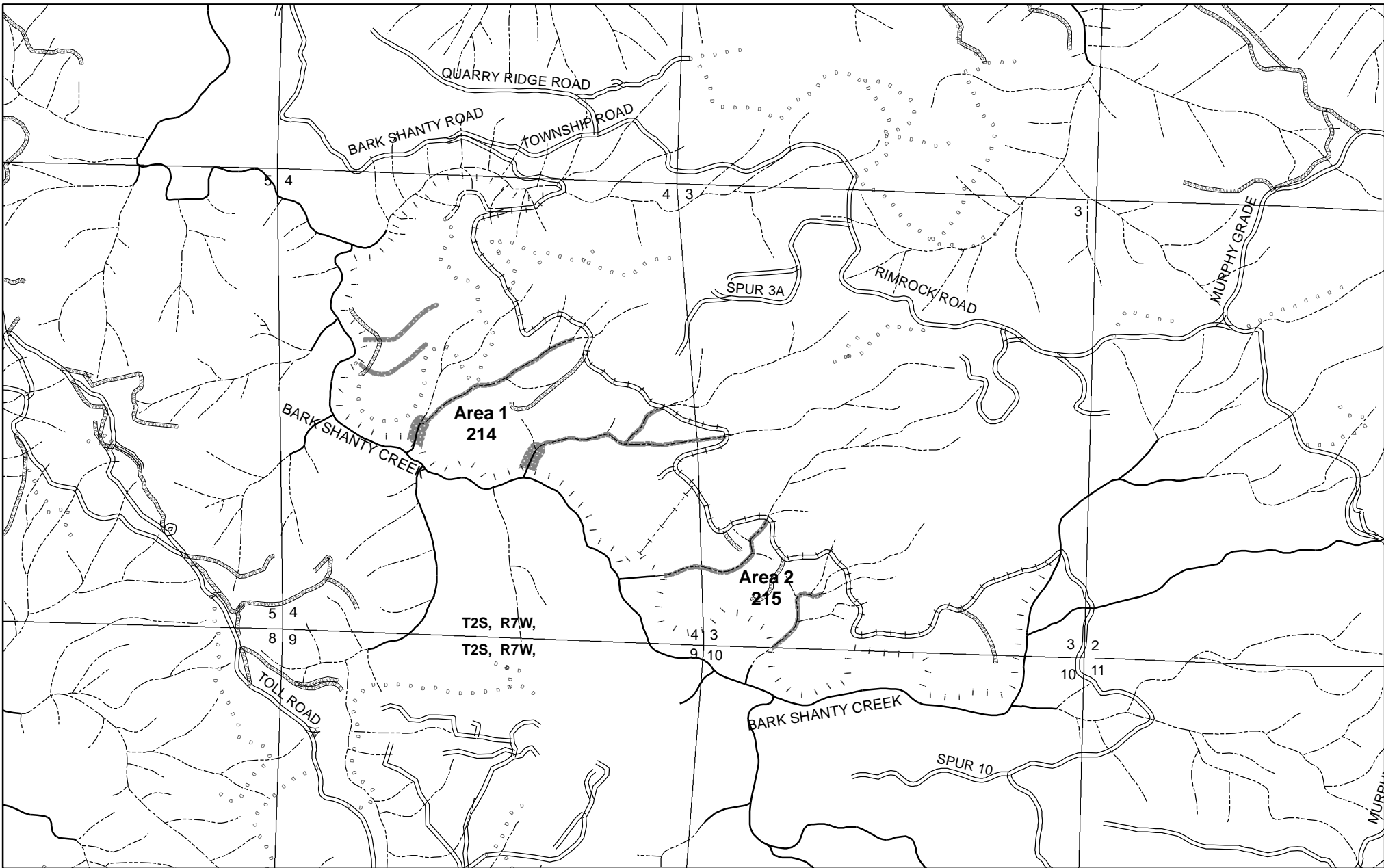
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*Streams of unknown fish presence are not shown but will be surveyed prior to the sale

Area	Type of Operation
1	Partial Cut
2	Modified Clearcut

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**Downtown
-- Key Resources --
2009 SALE PLAN
TILLAMOOK DISTRICT**
Portions of Sections 3,4 and 10
T2S, R7W, W.M.,
Tillamook County, Oregon

*Streams of unknown fish presence are not shown but will be surveyed prior to the sale

Area	Type of Operation
1	Partial Cut
2	Modified Clearcut

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