

**Memorandum**

Subject: FY2007 AOP Modification; Sim Fawcett Timber Sale  
To: Wayne Auble; Assistant District Forester  
From: Tim Lieske; Unit Forester  
Date: August 7, 2007

Based on the proximity and common haul route of the two planned FY07 timber sales known as Sim Power and Thin Fawcett, I am recommending a major modification to the AOP to combine these sales. Further reconnaissance resulted in a reduction of acres to both sales. At this time the Timber Contracts Unit has determined that the best silvicultural and financial decision is to combine the two sales in one contract. The sales are not in a SAH and the DFC for the combined areas is 26% GEN, 22% LYR, and 52% OFS.

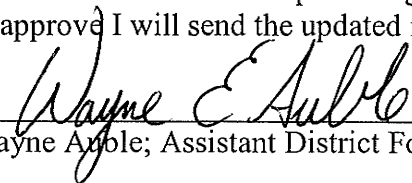
The recommended modifications are as follows:

- Change prescription in overstocked corner of Area 4 in Sim Power sale to be a modified clearcut, resulting in Area 7.
- Combine the existing prescriptions of Sim Power and Thin Fawcett into one sale packet, resulting in one sale known as Sim Fawcett.

The original approved AOP's yielded two sales with a combined net acreage of 327 acres, which is changed to 290 net acres in the proposal. The reduction in acreage is due in part to changes in buffer delineation and non-required harvest designations. The new acreage will yield 2.8 MMBF, the same as the original estimates. Attached is the new proposed Sim Fawcett Pre-Operations report with exhibits. This modification was reviewed and accepted by ODF resource specialists and conforms to all applicable standards.

If you concur with this recommendation please sign below and forward to Ross for his signature. If you approve I will send the updated information to Salem. Thank you.

Approved:

  
\_\_\_\_\_  
Wayne Auble; Assistant District Forester

08/07/07  
Date

\_\_\_\_\_  
Ross Holloway; District Forester

\_\_\_\_\_  
Date

# Pre-Operations Report

**Operation Name: Sim Fawcett**

**County: Tillamook**

**Management Basin: Tillamook (88%), Trask (11%), and Nestucca (1%)**

**Table 1. Operation Areas, Types and Acres**

Area	Type of Operation	Gross Acres	Net Acres <sup>1</sup>
1	Partial Cut	113	82
2	Partial Cut	93	59
3	Partial Cut	62	41
4	Partial Cut	58	33
5	Partial Cut	64	43
6	Partial Cut	28	24
7	Modified Clearcut	8	8
Total		426	290

<sup>1</sup> The net acres are based on orthophotos and GPS and exclude roads, stream buffers, reserve areas and non-required thinning areas.

## **I. PHYSICAL DESCRIPTION OF OPERATION AREA:**

Slopes have a varied aspect and range from 5% to 75%. Elevations range from 600 to 2800 feet. The major soil types are undesignated series and Killam with minor components of Osweg, Rye and Jewell.

The sale is composed of seven areas that are located on the divide between Skookum Lake headwaters, Fawcett Creek and Edwards Creek and a small portion of the headwaters of Beaver Creek. The underlying rock is igneous origin of the Tillamook Volcanics Formation, thick to massive tuff interbedded pillow basalt, pillow breccia, basaltic sandstone and mudstone. The underlying rocks of the western portion of the sale area are sedimentary origin rocks mapped as Sandstones of the Trask River. The landform is gentle to steep between Fawcett Creek and Edwards Creek.

## II. CURRENT STAND CONDITION:

**Table 2. Stand Inventory Information<sup>4</sup>**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Net Acres <sup>2</sup>
1	PC	312	WH/SS	59	17/19	215	63/45	46	82
		Target <sup>3</sup>			19/22	125	27/20	25	
2	PC	313	WH/SS	59	19/20	303	109/29	65	59
		Target <sup>3</sup>			22/20	160	39/20	33	
3	PC	300	WH/DF	51	16/15	90/60	62/50	44	41
		Target <sup>3</sup>	WH		16	85	54	25	
4	PC	301	WH/NF/RA	51	17/22/15	130/30/20	86/11/17	43	33
		Target <sup>3</sup>	WH/NF		19/22	80/30	39/11	25	
5	PC	302	WH/DF/NF	38	14/16/20	58/45/35	55/34/17	40	43
		Target <sup>3</sup>	WH/NF		14/20	58/35	55/17	25	
6	PC	303	WH/DF/NF	38	14/16/20	58/45/35	55/34/17	40	24
		Target <sup>3</sup>	WH/NF		14/20	58/35	55/17	25	
7	MC	303	WH/NF	38	14/16	58/45	55/34	38	8

<sup>1</sup> The source of stand inventory information is from field reconnaissance cruise plots taken in 2003, 2004, 2005 and SLI in 2002.

<sup>2</sup> The net acres are based on orthophotos and GPS and exclude roads, and stream buffers, reserve area and non-required thinning areas.

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

<sup>4</sup> These numbers are based on plot data taken to this point and final numbers may differ significantly from the actual conditions. The directive for minor and major modifications will be followed for further review.

The east portions of the sale area burned in the 1933 Tillamook, 1939 Saddle Mountain, and 1951 Elkhorn fires. Portions were seeded in 1967 and 1968, and the remainder of the sale areas naturally regenerated. Portions of the sale area were pre-commercially thinned in 1990. The west portions of the sale area were harvested in the 1950's and 60's and has naturally regenerated. These areas have had no prior stand management.

Approximately 247 acres has been inventoried using the Stand Level Inventory (SLI) procedure and the stand has been identified as CSC and UDS. The remaining acres of the sale were identified as CSC according to the district stand summary information (1999). Field measurements indicate Area 2 is UDS

UDS areas are characterized by a few larger noble fir and hemlock trees surrounded by a variable understory of Douglas-fir and alder. These stands also contain trees with defect and natural damage. The smaller stand components are not showing signs of sustainable growth. The brush component of the understory is uneven, with few species under the hemlock overstory.

See Table 2 for specific stand data.

The Douglas fir has Swiss needle cast (SNC) symptoms resulting in slowed diameter and/or height growth. The stands are within the SNC zone. The hemlock is overstocked and has poor height to diameter ratios resulting in poor live crown ratios and slowed diameter growth. There is scattered noble fir, cedar, and alder throughout the sale. The alder components of these stands were aerially sprayed to release conifer in the 1970's resulting in alder trees with short boles and many limbs. No other significant insect or disease problems have been discovered at this time.

The brush component in all the sale areas is comprised primarily of vine maple, sword fern or salmonberry. There are patches of salmonberry that occlude other species growth and swordfern over most of other open ground. Most brush is less than 15 feet high, with some vine maple exceptions.

There are some large snags in various states of decay and/or some hard snags created from wind, snow, and/or bear damage. SLI estimates more than 12 snags per acre greater than 12" dbh and 3 of those over 24" dbh in the western portions of the sale areas. SLI reports less than 8 snags per acre total between 12" and 24" DBH in the east portions. One area has less than 1 large hard snag per acre, the remaining areas have no hard snags. Down wood consists of scattered large old logs (36"+) in Class 3 and 4 stages of decay and some windthrow in decay classes 1 and 2. Down wood ranges from 2100 to 6300 cubic feet per acre including between 6 and 85 cubic feet in decay class 1 and 2.

### III. DESIRED STAND CONDITION and VISION:

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Net Acres
1	312	UDS	LYR	GEN/OFS	16/66
2	313	UDS	LYR	LYR/OFS	65/4
3	300	UDS	UDS	GEN/OFS	2/39
4	301	UDS	UDS	GEN/OFS	1/32
5	302	CSC	UDS	GEN/OFS	28/15
6	303	UDS	UDS	GEN/OFS	23/1
7	303	UDS	REG	GEN/OFS	7/1

<sup>1</sup> 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 goals.

The Tillamook River Basin has been targeted for complex structure. 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

Section II, Current Stand Condition. The primary goal of this entry is to reduce the density of the hemlock and Douglas-fir in the stands to promote general health. Another benefit of conducting harvest operations is the ability to create openings around potential murrelet trees to facilitate limb growth for increased nesting opportunities. Since this is a first entry operation, future managers will need to reevaluate the stand structure again and determine when the next activity should take place.

**Partial Cut:**

In the short term areas 1-6 will be partial cut to reduce stand density. This is primarily a first entry operation to begin to move the stand along the pathway to more complex structure in the long-term. Additional future treatments may be necessary to achieve structure goals.

This prescription will allow for openings and gaps in the stand to allow the residual trees to grow larger in diameter and crown depth. The openings and gaps will also allow for understory initiation of shrubs and tree species creating horizontal and vertical diversity. The expectation is that future management will continue the growth of overstory trees as well as understory trees and shrub species.

**Regeneration Harvest:**

Area 7 is not expected to develop into complex stand structure due to the poor growth and limited stocking as a result of weather damage and lack of management. By conducting a regeneration harvest at this time, the entire area can be planted with a mix of well-stocked native conifers. This prescription promotes the development of complex structure in both the short- and long-term.

Treatment of these 7 areas will create a mosaic of openings, gaps, variable densities, and mixed species over 426 acres. Unmanaged hardwood and conifer mixes will be left in headwalls, and/or in riparian buffers as well as scattered in the units.

As the stands mature the residual trees will contribute to the complexity of sizes, species and densities by being significantly different than the understory. These trees will then contribute to the recruitment of snags and down wood over time as the stand develops and matures. Natural regeneration of shade tolerant species is expected to fill the gaps created in the partial cut areas.

The current amount of snags is adequate for the *Forest Management Plan's* short term goals. Partial cut units with a resulting average diameter over 15 inches will be reviewed for snag creation at time of harvest. Larger noble fir and spruce may be targeted for snag creation.

#### **IV. PROPOSED MANAGEMENT PRESCRIPTION AND ANTICIPATED PATHWAY:**

**See table 2 for prescription targets**

##### **Partial Cut:**

In all areas merchantable alder will be harvested. The residual basal area target identified in Table 2 may be adjusted after a more comprehensive cruise. Noble fir volume is expected to be negligible. A diameter limit cut seems to be the best option to achieve management goals. All other species will be reserved. The Northwest Oregon Area Biologist will be consulted during sale layout to determine where to create openings to enhance murrelet habitat. Understory vegetation will be enhanced by the growing space made available.

##### **Modified Clearcut:**

In Area 7, merchantable hemlock and noble fir will be removed. All other tree species will be reserved. Understory vegetation will be initially controlled until reforestation is established, then enhanced by the additional growing space available.

##### **Green Tree, Down Wood and Snag Strategies**

See also Section III: Desired Future Condition for long term strategies

Existing down wood will be left in the sale areas. Small non-merchantable hardwood and conifer will also be retained where possible. These leave trees function as future source of snags and down wood recruitment across the landscape. Green trees will be left on precipitous slopes, headwalls, and those areas not reached by conventional logging methods. Buffers adjacent to small perennial stream will also contribute additional green trees. Many of these areas will be posted so they are outside of the timber sale boundary.

Down wood recruitment is expected through mortality and windthrow of residual or leave trees and felled snags. Tops resulting from ground yarding will be left in the unit.

Existing snags not determined to be a safety hazard will be retained and any felled snags (see prior comment t4, this sentence may be somewhat redundant) will be left for down wood. Creation of snags is expected during harvest activities (rub trees, lift trees, or tail trees) and over time by natural processes. Trees with natural defect will be encouraged to be left.

**V. ESTIMATED TIMBER AND REVENUE INFORMATION:**

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		X
Planned Quarter:		4	

	Conifer	Hardwood	Total
Net Volume (MBF)	2654	115	2769
Stumpage Value (\$/MBF)*	\$103.43	\$200	
Estimated Gross Value	\$274,503	\$23,000	\$297,503
		Project Costs:	\$87,000
		Estimated Net Value:	\$210,503

*\*Combined Douglas-fir and hemlock stumpage values based on harvest type.*

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

The sale areas are accessed via Munson Creek County Road, Simmons Ridge Road, 3000 Mainline and 4000 Mainline Roads. These are currently all weather roads surfaced with crushed rock. Skookum Lake Road and 1000 Mainline are unsurfaced dirt roads.

Approximately 2.75 miles of existing surfaced and 2 miles of existing unsurfaced roads in the sale area will be improved. This work will bring all roads up to standards described in *the Forest Roads Manual*. See maps for specific road locations and conditions.

Approximately 0.65 miles of road will be constructed to provide access to cable yarding areas. Following harvest, roads within the sale areas will be closed to public traffic. See summary document for more information on this topic.

Harvesting is expected to be 72% cable yarding and 28% ground yarding.

Seasonal restrictions for hauling and felling will be used. See section VIII; T&E Species Considerations for more information.

**Table 5. Transportation Planning Summary (Miles)<sup>4</sup>**

Activity	Mainline	Collector	Rocked Spur <sup>1</sup>	Dirt Spur <sup>1</sup>
Construct	0	0	0.25	0.4
Improve	0	0	2.75	2
Maintain <sup>2</sup>	2.7	7	1	0
Close/Block <sup>3</sup>	0	0	1.8	0.4

Vacate <sup>3</sup>	0	0	0	0
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<sup>1</sup> 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

<sup>2</sup> 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.

<sup>3</sup> Roads not closed/blocked or vacated at the end of the sale will be reviewed for closure after reforestation is established.

<sup>4</sup> The numbers in this table reflect planned Project Work associated with the sale.

## **VII. AQUATIC RESOURCES AND WATER QUALITY:**

A watershed analysis has been completed for the Trask River Basin. Fawcett Creek is a large Type F stream that is between two sale areas. Munson Creek and Simmons Creek are large Type F streams that are adjacent to the haul route. There are several unnamed small perennial and seasonal Type N streams within the sale area. These will be reviewed and protected appropriately during sale layout based upon stream type, channel characteristics, and topography.

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

Fawcett Creek and other small streams within the sale contribute to a municipal watershed and known water rights. Streams will be managed according to Forest Management Plan Riparian Strategies and restrictions will be in place while working in and around the municipal watershed. The majority of the sale areas are on upper slope and ridgetop locations so they are somewhat removed from close proximity to the valley bottom and mainstem tributaries of the municipal intake. Opportunities to implement measures that could potentially offer greater protection will be evaluated during sale layout.

## **VIII. T&E SPECIES CONSIDERATIONS:**

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist. It was determined that in the sale areas there is potential northern spotted owl habitat within or adjacent to the sale boundary. Surveys were conducted during the 2003, 2004, 2005 and 2006 survey seasons for northern spotted owls. Additional fifth year surveys are planned for 2009. All northern spotted owl surveys were and will be conducted in accordance with USFWS endorsed protocol.

It was determined that in the sale areas, there is potential marbled murrelet habitat within or adjacent to the sale boundary. Surveys for marbled murrelets were conducted during the 2005 and 2006 survey seasons. All surveys for marbled murrelet are conducted in accordance with Pacific Seabird Group (PSG) protocol. 2005 Surveys detected an occupied site adjacent to the timber sale

and a MMMA has been designated. Conservation measures will follow ODF policy for protection of occupied murrelet sites, including seasonal restrictions and buffers. The haul route is adjacent to the Low Simmons Marbled Murrelet Management Area (MMMA). Seasonal restrictions will be in place along Simmons Ridge Road.

T & E Fish species: See Sections VII, and IX for listed fish protection measures.

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.

#### **IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

The initial slope stability assessment from the geotechnical specialist was concluded to be a moderate risk. The slopes above Fawcett Creek are moderately steep with a band of steep slopes near the top of the unit. The slopes above Edwards Creek are very steep but appear to be above a large bench. The very small portion of the sale above Beaver Creek exhibits gentle slopes.

The geotechnical specialist will be consulted during sale layout and the need for field review will be assessed.

#### **X. RECREATION RESOURCES:**

The sale areas are designated as Non-motorized in the *Tillamook State Forest Comprehensive Recreation Plan* (1993). This sale has been reviewed by the District Recreation Coordinator.

No trails were identified or planned within or adjacent to the sale areas. Recreational use common includes walk-in hunting. The majority of the sale areas are closed to public access due to the municipal watershed.

#### **XI. CULTURAL RESOURCES:**

The *Tillamook State Cultural Assessment* does not list any cultural sites within or adjacent to the proposed sale boundary.

#### **XII. SCENIC RESOURCES:**

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

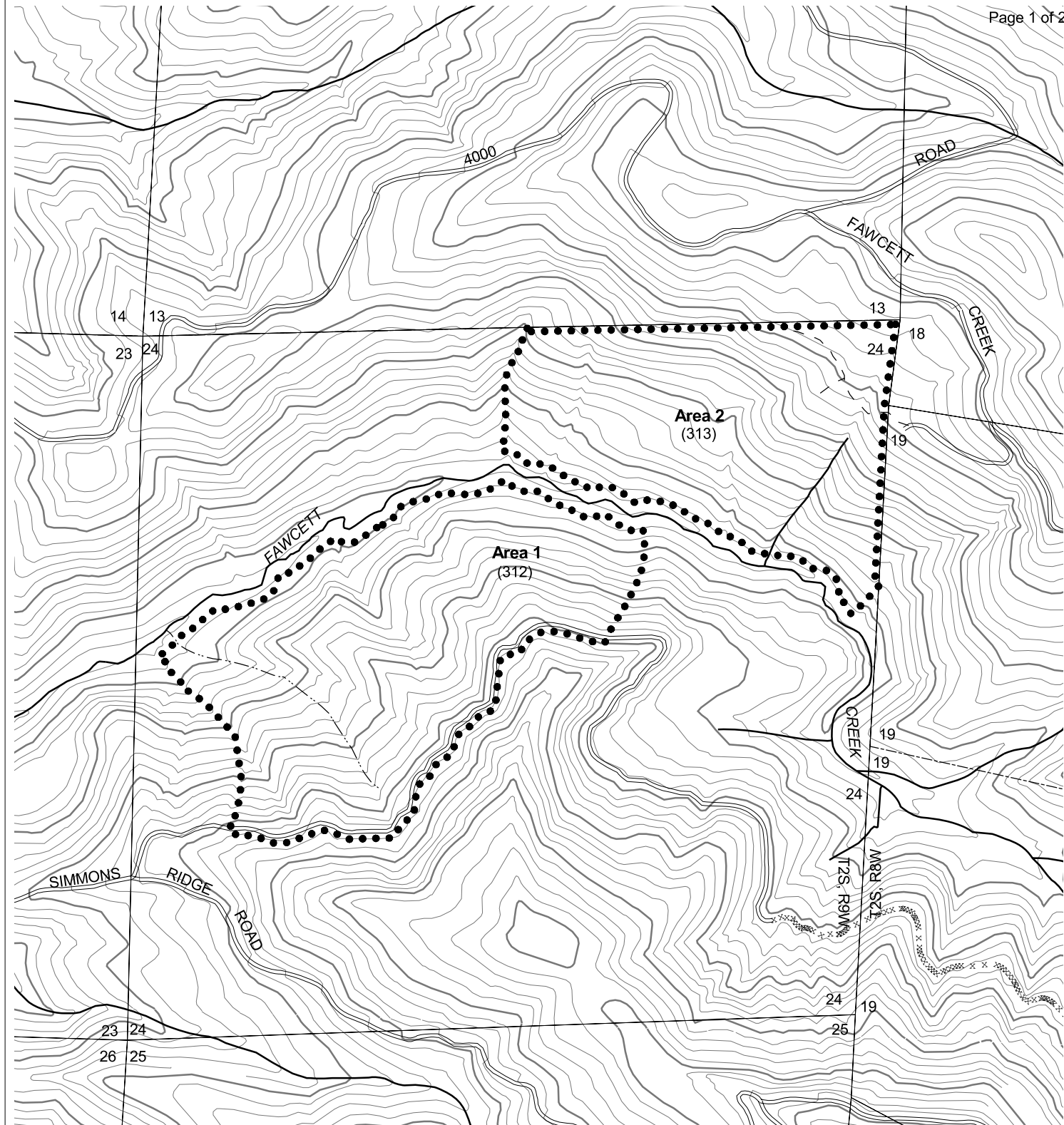
**XIII. OTHER RESOURCE CONSIDERATIONS:**

The east portion of the sale is bounded by a Bonneville Power Administration (BPA) transmission line. BPA will be consulted prior to sale layout and throughout the sale operation.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

Areas 1, 2, 3, 4 and 6 contain Focused Stewardship, Aquatic and Riparian Habitat and Domestic Water Use and Transmission Lines. See Section VII, Aquatic Resources and Water Quality for the management guidelines to be used during sale layout and harvest.

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
- xxxxx Blocked road
- - - Road construction
- County road
- T T Transmission line

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

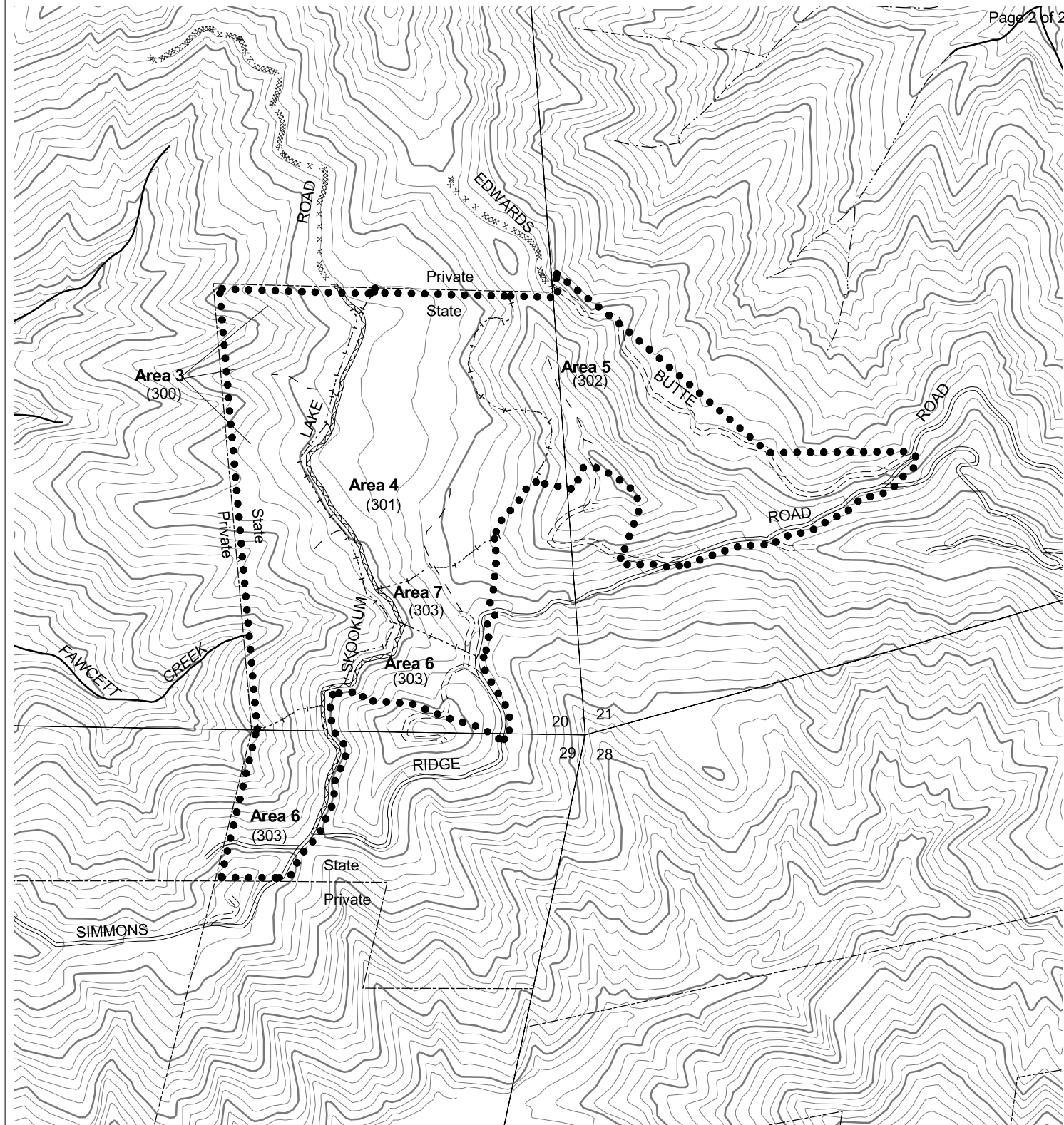
**SIM FAWCETT TIMBER SALE**  
**-- Topography --**  
**2007 SALE PLAN**  
**TILLAMOOK DISTRICT**

Portions of Section 24, T2S, R9W, and Portions of Sections 20, 21, and 29, T2S, R8W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation
1	Partial cut
2	Partial cut
3	Partial cut
4	Partial cut
5	Partial cut
6	Partial cut
7	Modified Clearcut

Tillamook District GIS  
 July 3, 2007  
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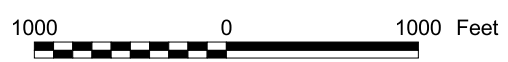
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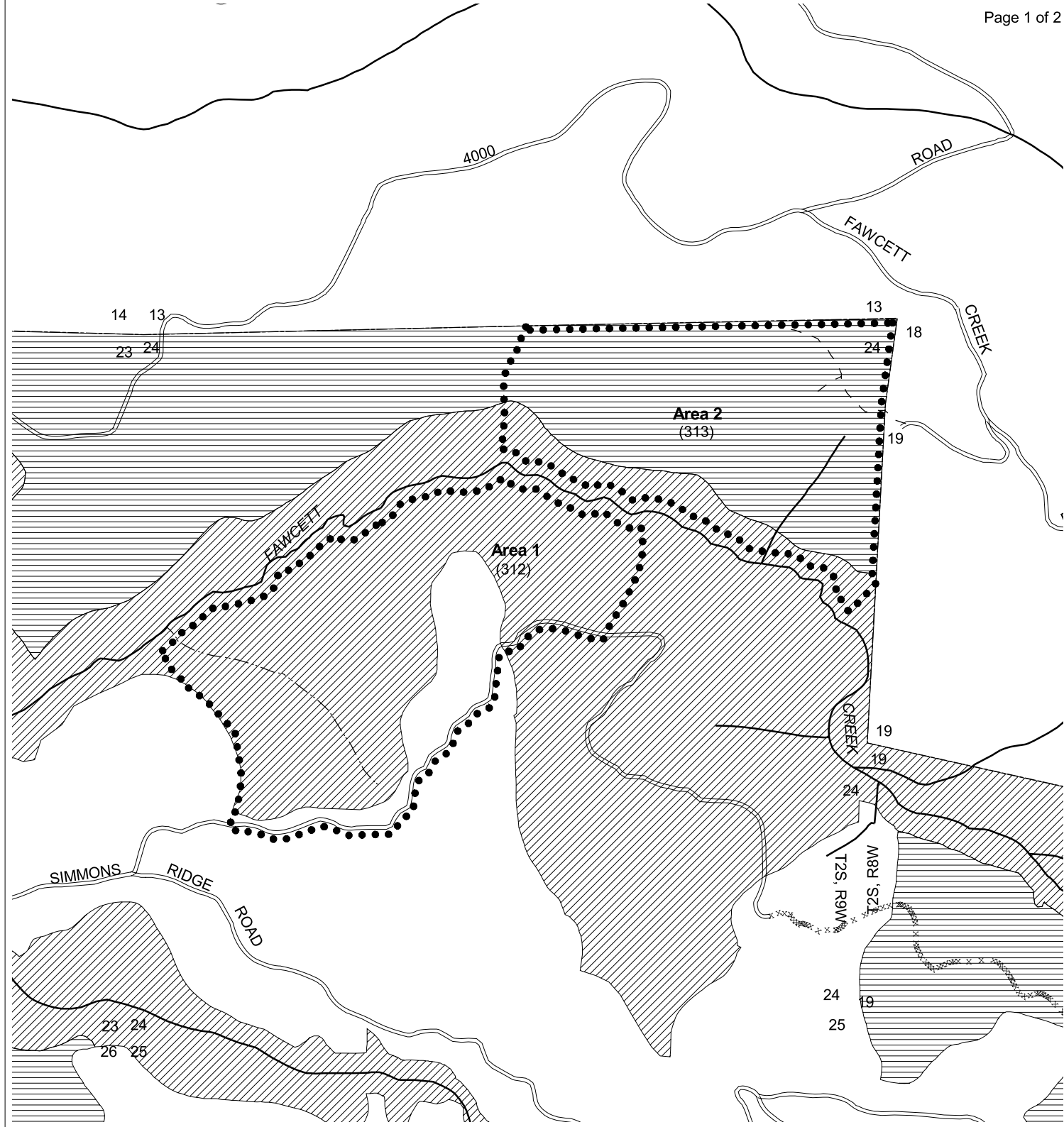
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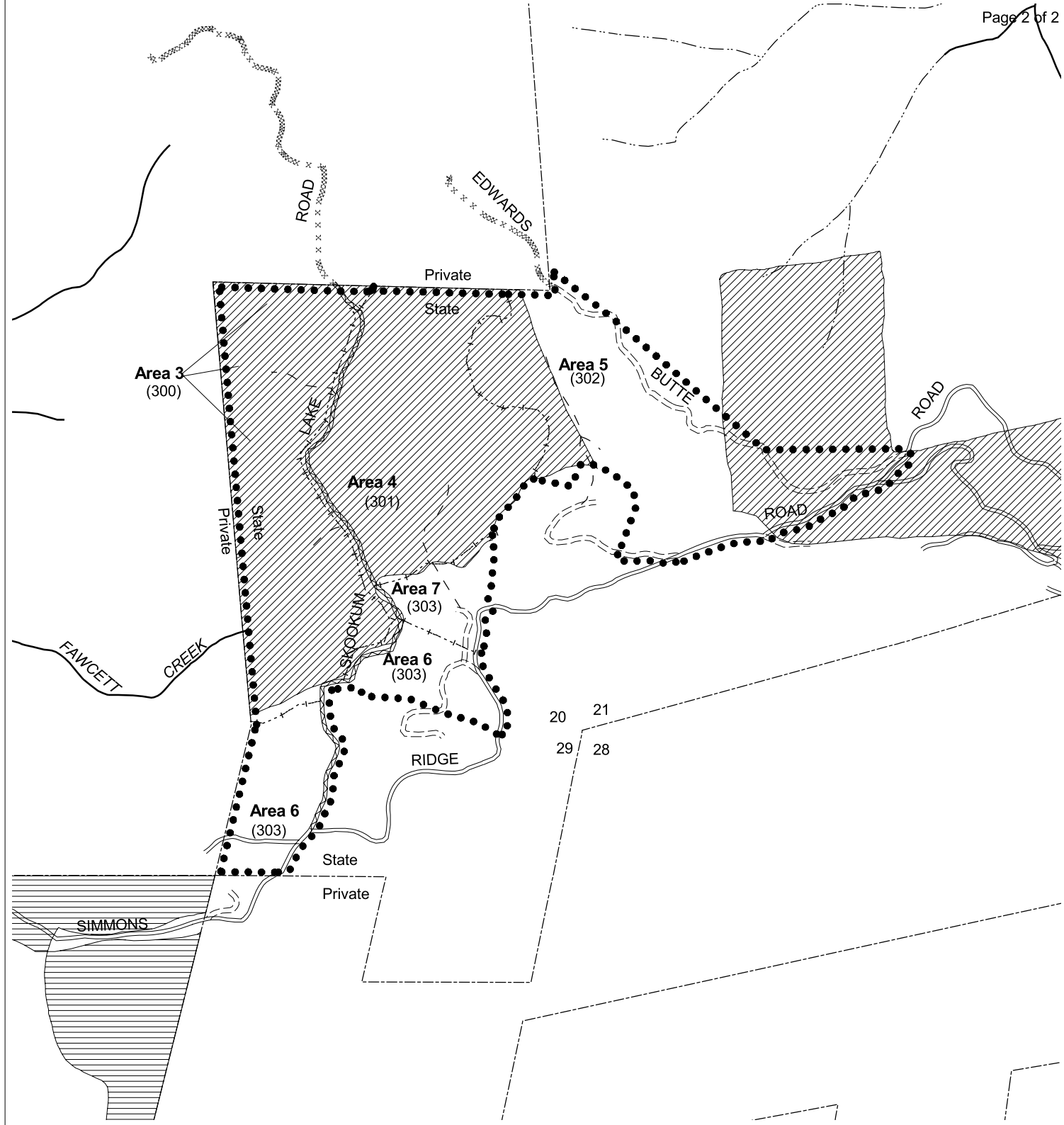


- Desired future condition**
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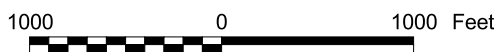
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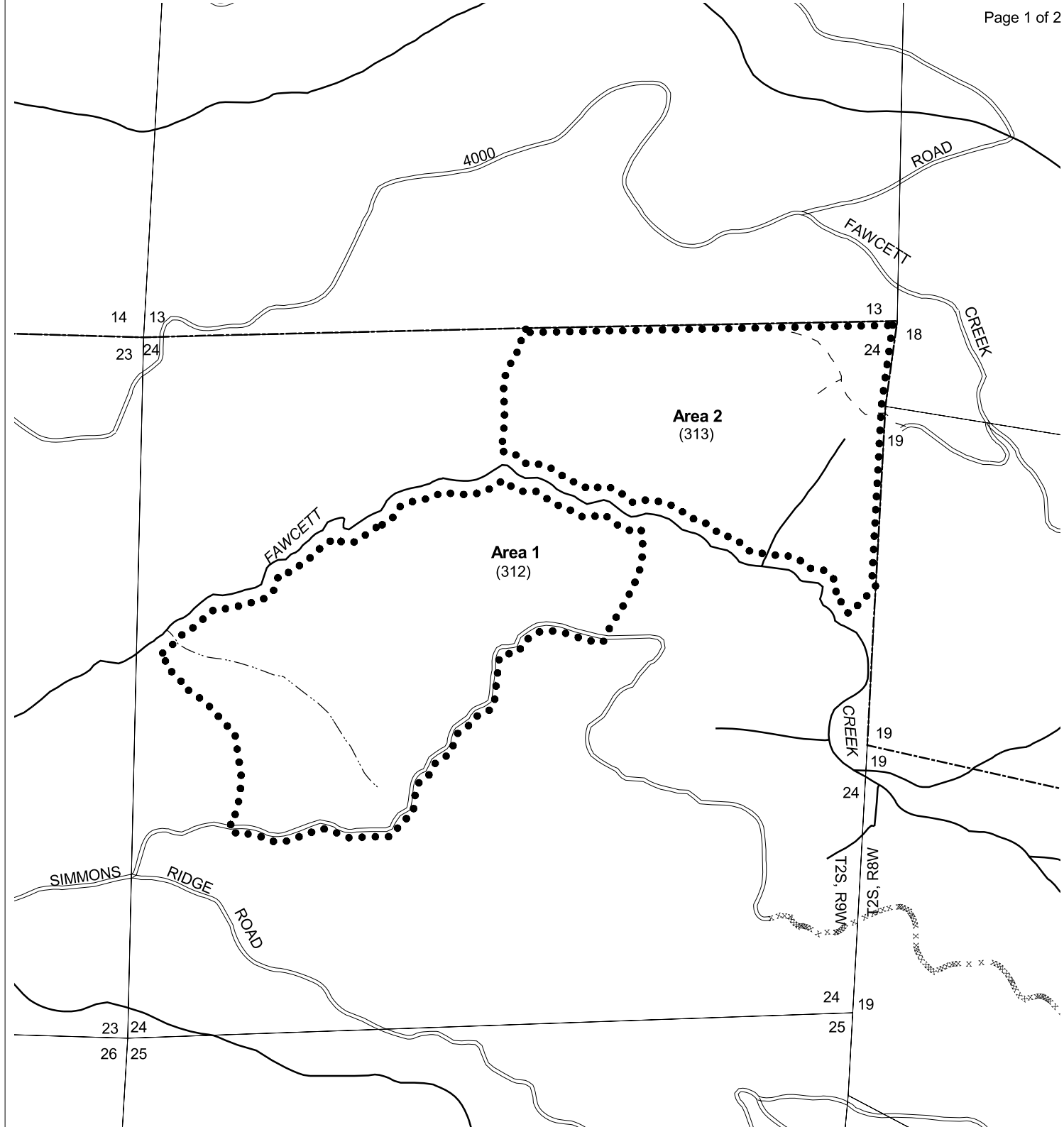
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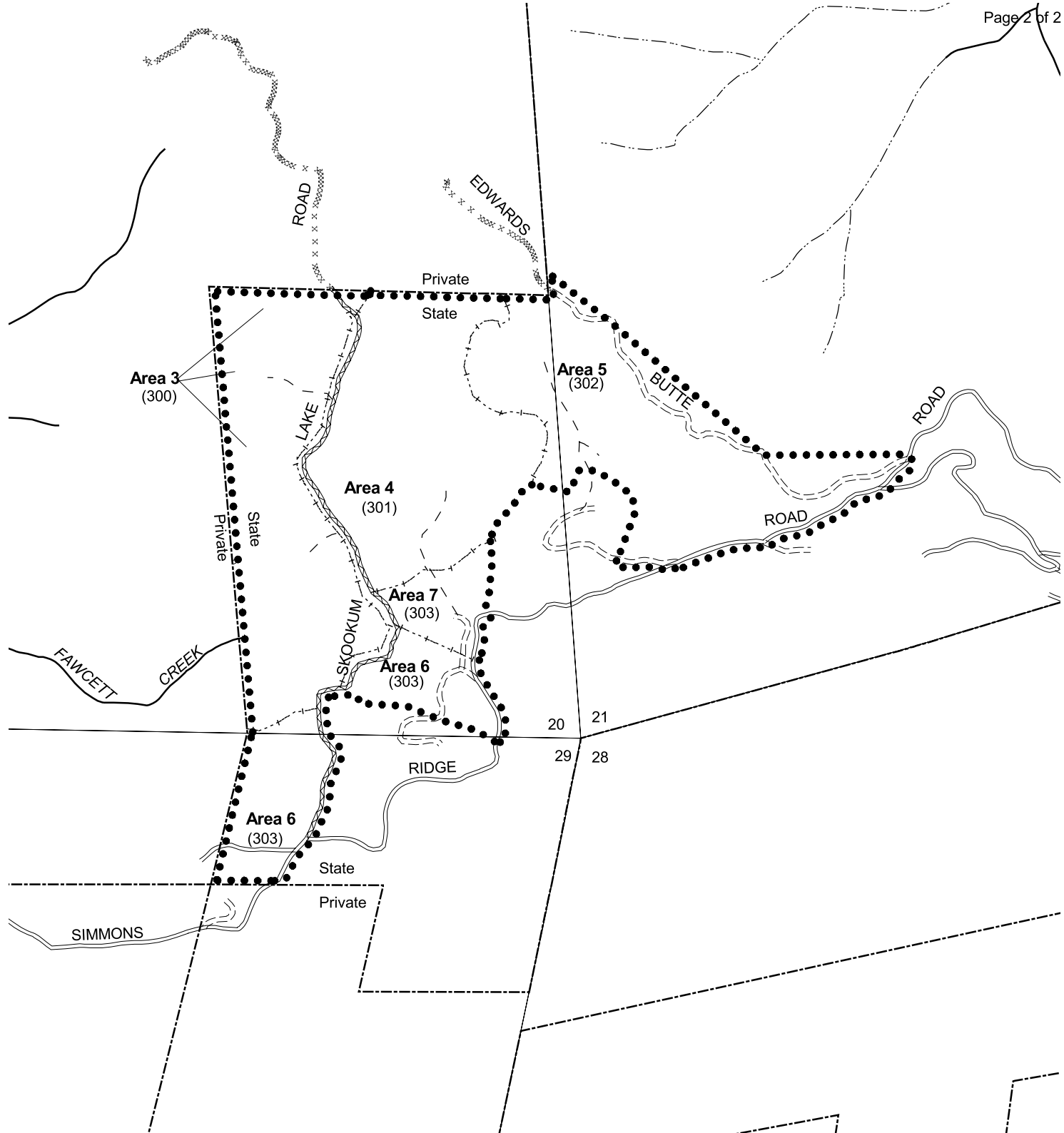
- Campground
- Day Use Site
- OHV Staging Area
- Trail Head
- Boat Launch
- Interpretive or Administrative Site
- Stewardship
- Focused
- Special
- OHV trail
- Non-motorized trail
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**SIM FAWCETT TIMBER SALE**  
**--Key Resources/Recreation --**  
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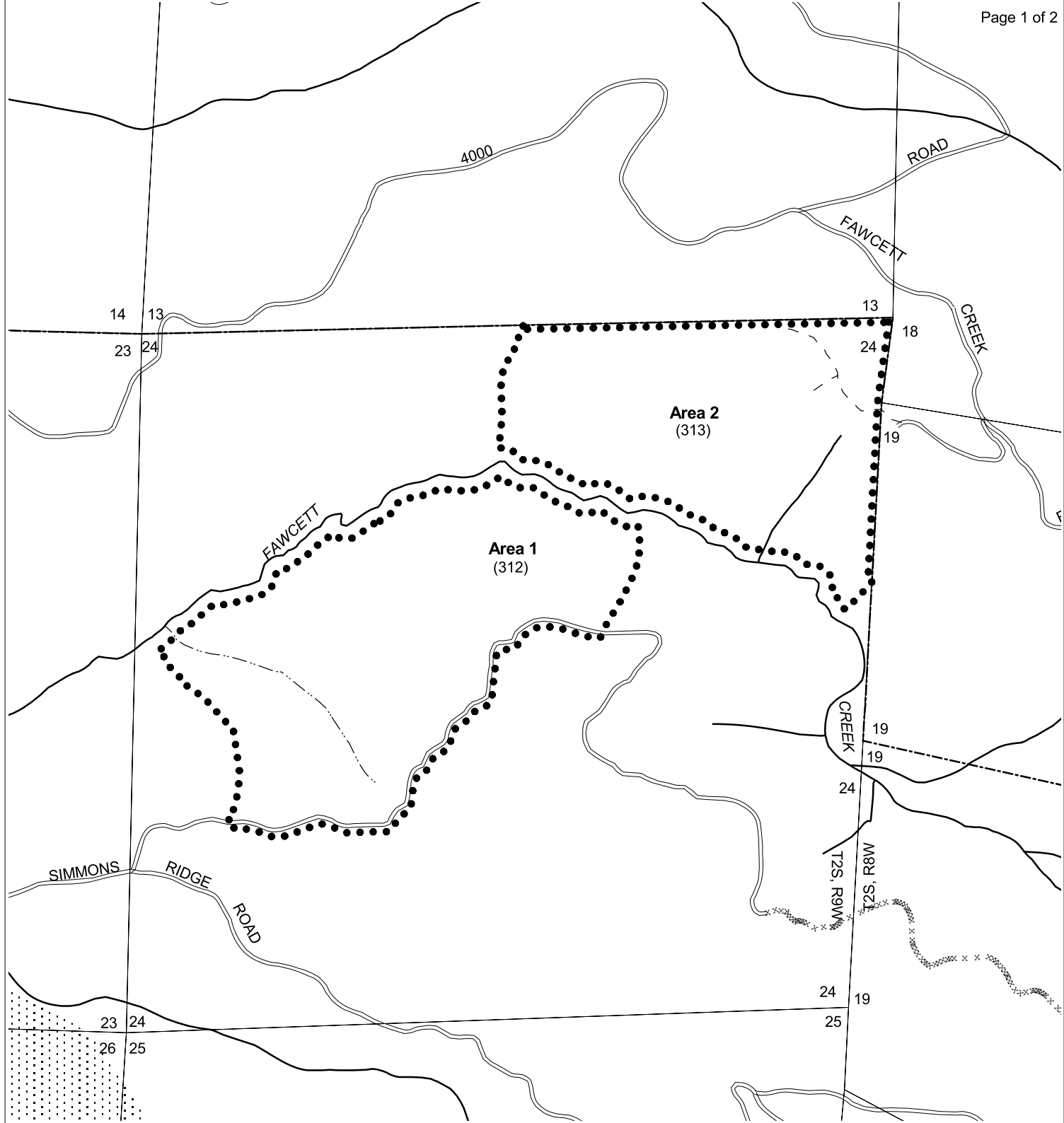
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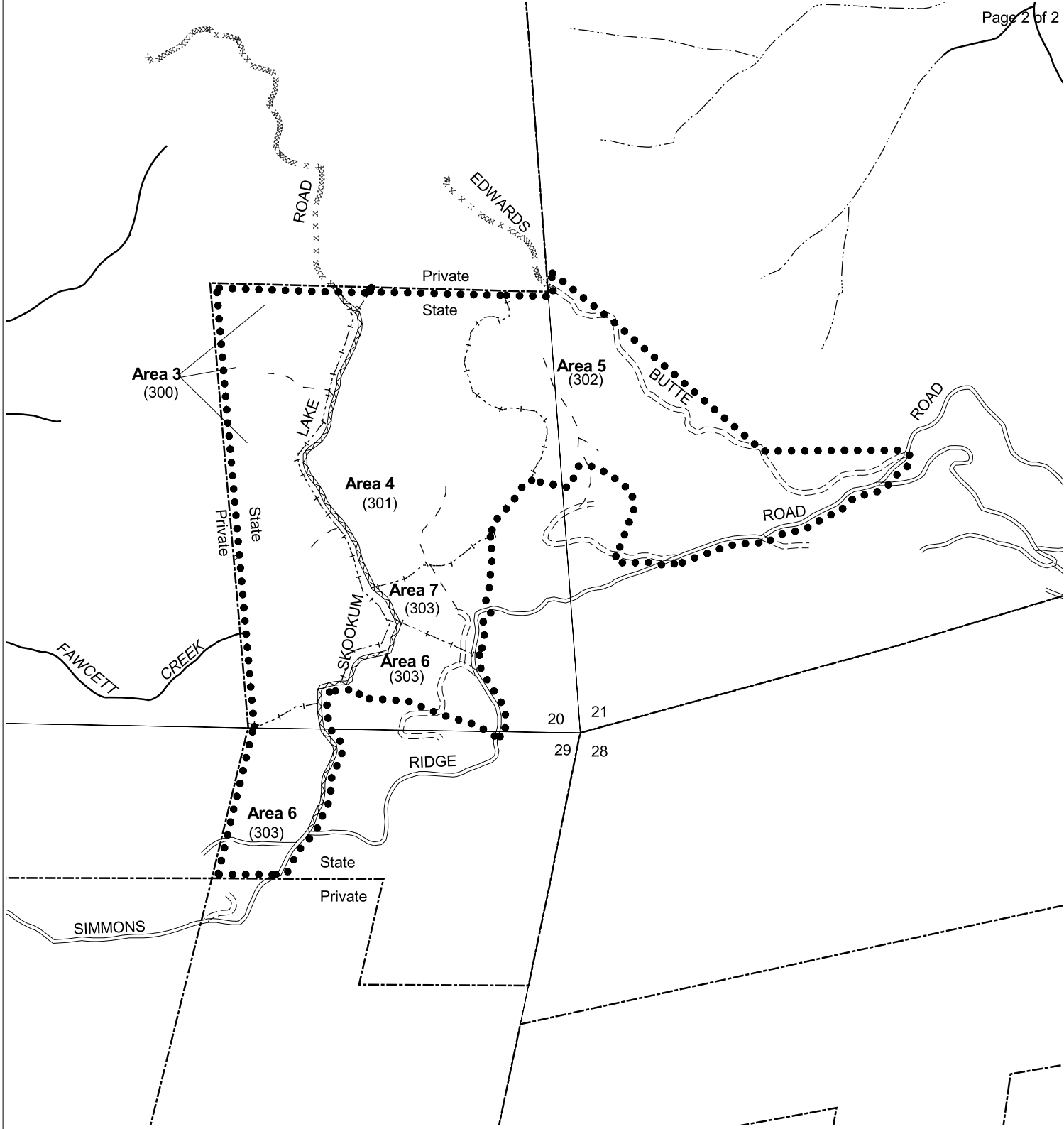
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  - Ownership boundary
  - Perennial Type-F stream \*
  - Perennial Type-N stream \*
  - Unsurfaced road
  - Surfaced road
  - State/Federal highway
  - Legacy road
  - Blocked road
  - Road construction
  - County road
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**SIM FAWCETT TIMBER SALE**  
**-- Key Resources/Wildlife Habitat --**  
**2007 SALE PLAN**  
**TILLAMOOK DISTRICT**

Portions of Section 24, T2S,  
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 Sections 20, 21, and 29, T2S,  
 R8W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation
1	Partial cut
2	Partial cut
3	Partial cut
4	Partial cut
5	Partial cut
6	Partial cut
7	Modified Clearcut

Tillamook District GIS  
 July 3, 2007  
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- Stewardship**
- Focused
  - Special
- Area boundary**
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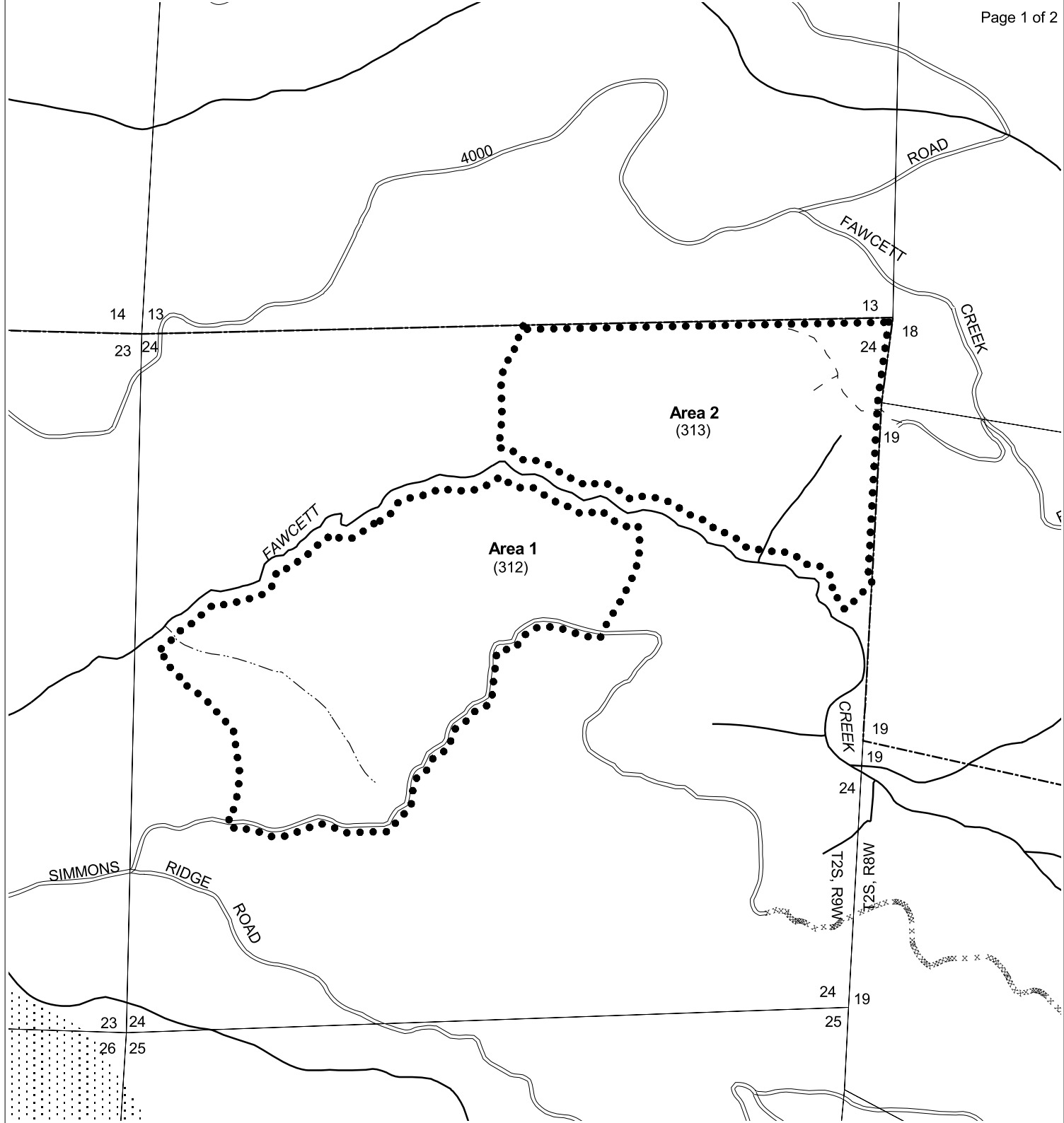
**2007 SALE PLAN**  
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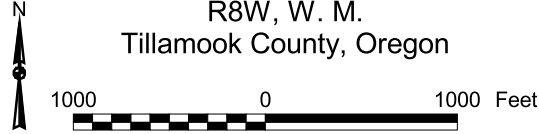
**SIM FAWCETT TIMBER SALE**  
**-- Key Resources/Visual --**  
**2007 SALE PLAN**  
**TILLAMOOK DISTRICT**

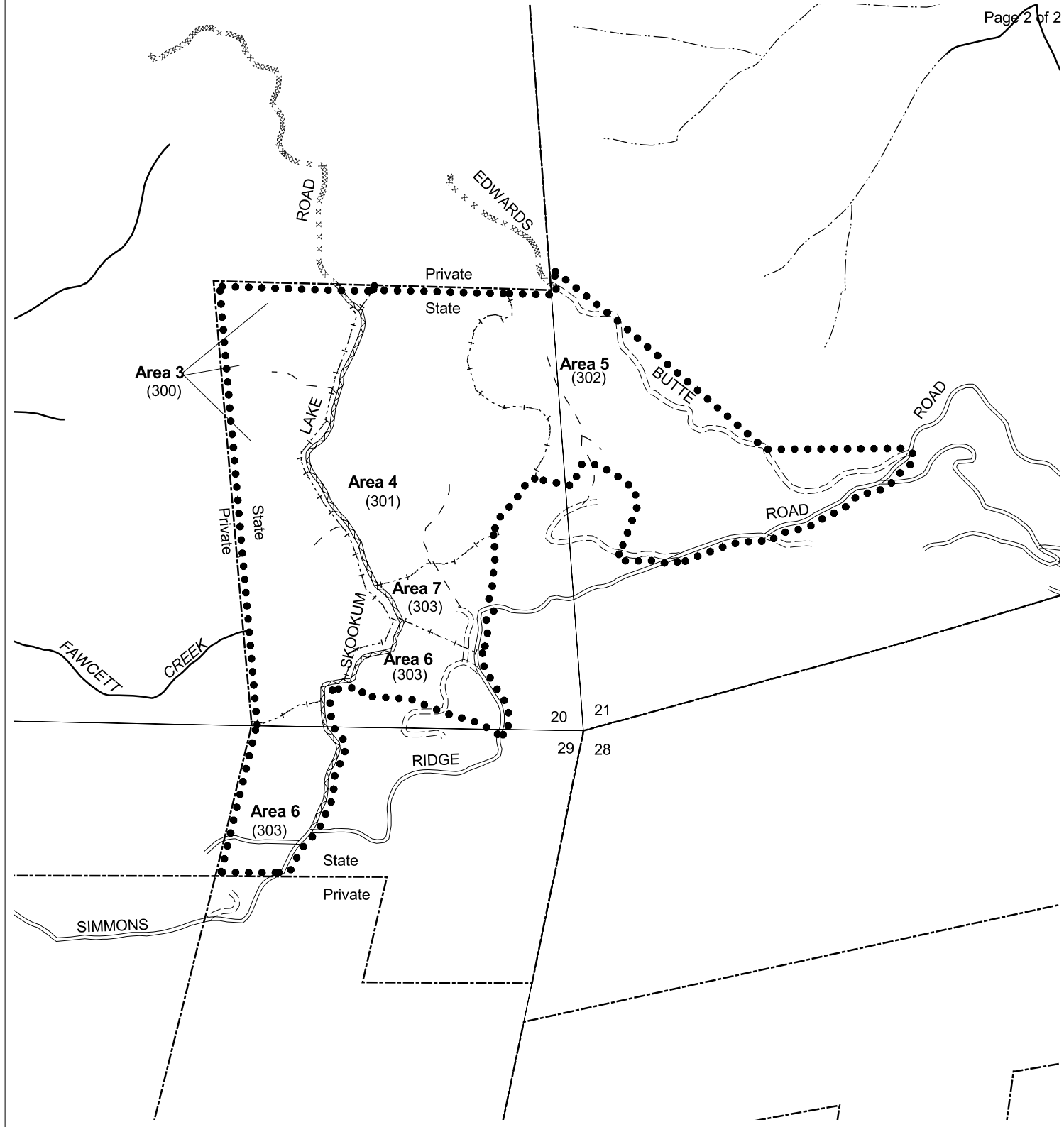
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














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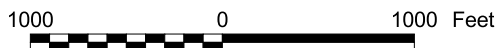
- |   |                     |   |                           |
|---|---------------------|---|---------------------------|
|  | Stewardship Focused |  | Area boundary             |
|  | Special             |  | Sale boundary             |
|   |                     |  | Ownership boundary        |
|   |                     |  | Perennial Type-F stream * |
|   |                     |  | Perennial Type-N stream * |
|   |                     |  | Unsurfaced road           |
|   |                     |  | Surfaced road             |
|   |                     |  | State/Federal highway     |
|   |                     |  | Legacy road               |
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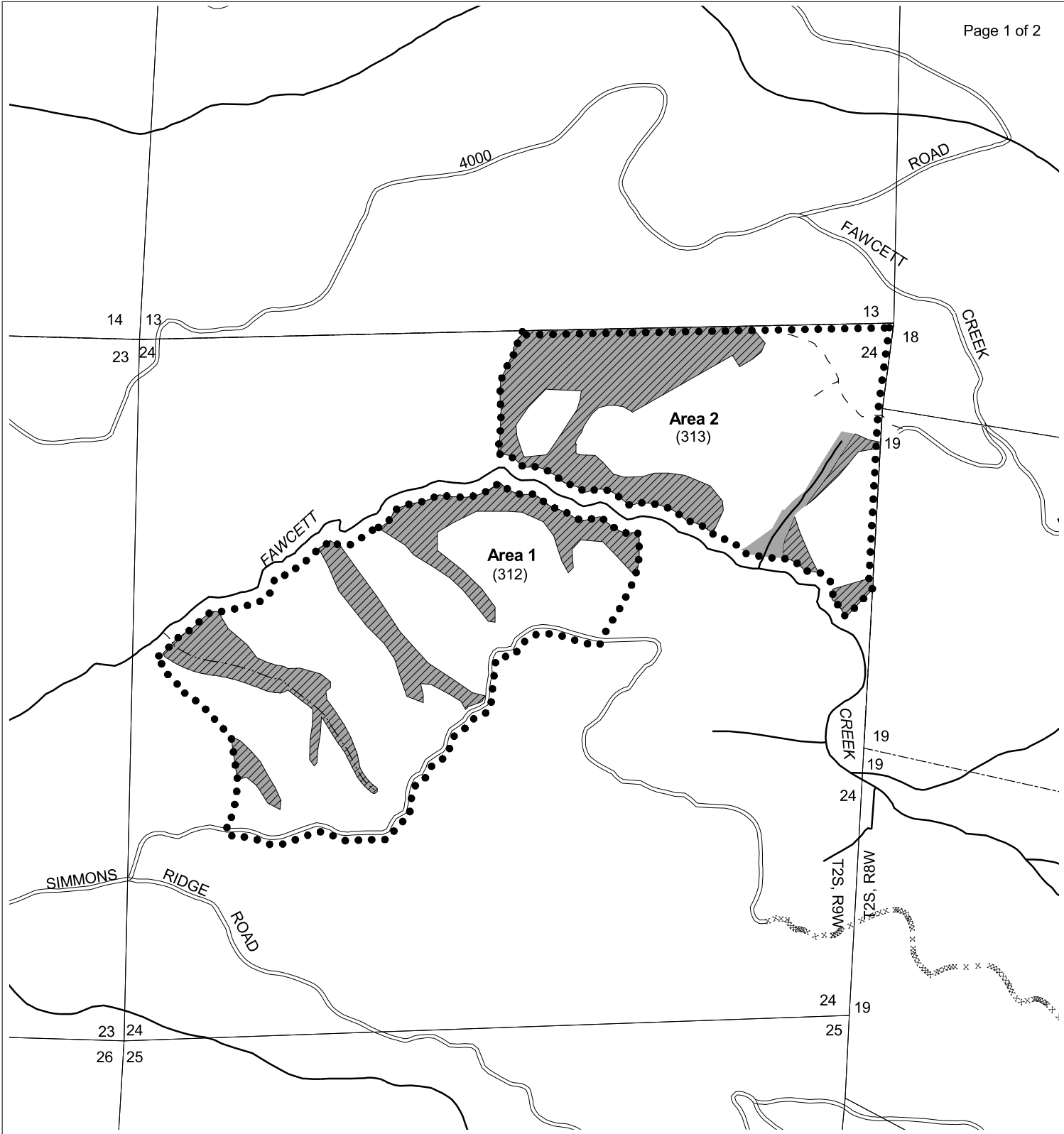
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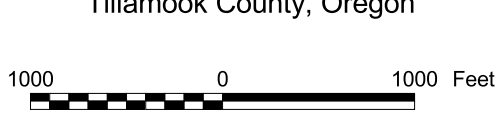
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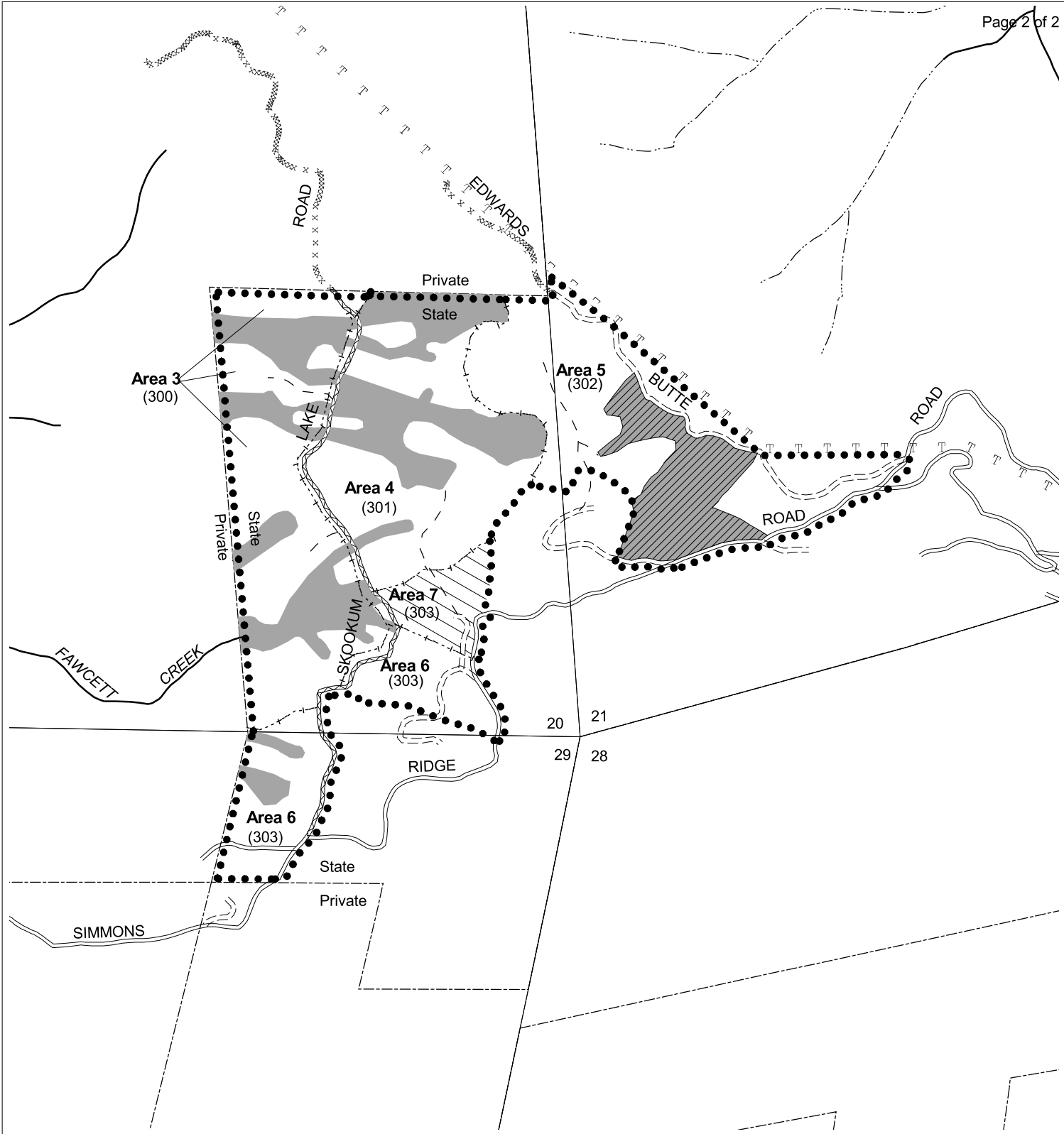
- Partial Cut
  - Modified Clearcut
  - Buffer
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  - Area boundary
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