

Pre-Operations Report

Operation Name: Silver Creek (ALT)

County: Marion

Management Basin: Scattered

Table 1. Operation Areas, Types and Acres

Area	Harvest Type	Gross Acres	Net Acres
I	Retention Cut	101	86

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The operation is located within a temperate climate area. Typically the fall and winter seasons are wet. This area receives approximately 70 to 90 inches of rainfall per year. The operation is located within the *Tsuga heterophylla* Zone (Natural Vegetation of Oregon and Washington, Franklin & Dyrness, 1973). The elevations range from 2200 to 2660 feet and the slopes are gentle to moderate at 20 to 50 percent.

The Nasty soil series are found on a majority of the sale area. They are moderately deep, well-drained, moderately fine-textured skeletal soils. These soils are granular very gravelly loams to extremely gravelly clay loams. A small area of Pechuck soils are found along the southern boundary. Pechuck soils are deep, well-drained, moderately fine-textured colluvial soil that developed from Miocene age andesite. In general, they are gravelly loams to gravelly clay loams with varying amounts of rock from 10 percent in the A horizon to 80 percent in the C Horizon.

II. CURRENT STAND CONDITION:

The proposed sale area is currently classified as Understory (UDS). The overstory consists mainly of Douglas-fir with some western hemlock and red alder. Understory species include western hemlock, vine maple, salal, dwarf Oregon grape, sword fern and devilsclub. There are 2 snags per acre greater than 24 inches. Sound down wood per acre averages 140 cubic feet and down wood in all decay classes averages 4,950 cubic feet per acre. (SLI, 2002)

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
I	RC	12094	DF	70	20	168	78	39	101
		Target³			30	36	7	7	

¹The source of stand inventory information is SLI from 2002.

²The acres are based on GIS and include roads, streams buffers, reserve areas, etc.

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

III. DESIRED FUTURE CONDITION/VISION:

This operation is located in the Scattered Basin. This basin is a diverse mixture of ownership, stand ages, species mixtures, and site quality. As indicated by its name, the Scattered Basin is a conglomeration of scattered ODF ownership parcels that range in size from 40 acres to 1000 acres. The operation is located within a parcel which is approximately 160 acres in size. Most of the smaller parcels within the basin are viewed as land exchange candidates due to the intermingled nature of the ownership.

Although 54 percent of the Scattered Basin is planned for Complex DFC, most of this is associated with larger ownership parcels, recreation sites, and threatened and endangered species sites. The remainder of the basin is planned for General Forest Structure. (*Cascade District Implementation Plan, 2003*)

The DFC for Area I is General. (*Cascade District Implementation Plan, 2003*)

The **Anticipated Pathway for Area I** begins with removal of the overstory.

- Retention cut of the current stand. Replant with a mixture of Douglas-fir and western red cedar.
- At age 10-15, a pre-commercial thin is anticipated given the planting density and natural seed-in.
- A first entry commercial thinning is planned around age 40.
- A final harvest will be considered around age 75-80.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ²	Desired Future	Acres
1	12094	UDS	REG	GEN	101

¹ The stand is expected to develop into this condition in the five to ten years after this operation is completed.

IV. PROPOSED MANAGEMENT PRESCRIPTION:

The **proposed management prescription for Area I**, type 12094, is:

This operation will be a retention cut.

- Seven green conifer trees per acre will be retained. Five trees per acre are for landscape targets and two per acre are for future snag recruitment. All Douglas-fir trees greater than 28 inches in diameter will be reserved. If additional green conifer trees are needed to meet the seven trees per acre goal, Douglas-fir trees greater than 24 inches in diameter will be selected. Some of the green trees will be left along the streams within the operation. Leave hardwoods in areas where they are not safety hazards.
- The slash from the operation will be piled and burned on the flat ground and whole tree yarded on the steeper ground to prepare the site for planting.
- The site will be replanted with Douglas-fir and western red cedar seedlings.

- Down wood needs will be evaluated during sale layout. Wind storms in 2006 and 2007 have added fresh down wood since Stand Level Inventory (SLI) was completed.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	2,500		2,500
Stumpage Value (\$/MBF)	\$250		
Estimated Gross Value	\$625,000		\$625,000
		Project Costs:	\$4,000
		Estimated Net Value:	\$621,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to this sale will be via Highway 22, Wagner Road, S 700 (Ayers Cr. Road), Lookout Mountain Mainline and S 650. These roads are currently all weather roads.

The S 650 will be improved by grading, shaping, and compacting the road. One culvert will be installed to disconnect the road from a small Type N stream. The S 651 will be vacated, which will consist of removing two culverts and associated fills and water barring the road. This work will bring roads up to standards in the Forest Roads manual.

Following harvest, roads and skid trails within sale area will be evaluated for closure.

Project work costs are estimated to be \$4,000.

This sale is 85% cable yarding and 15% ground yarding.

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct				
Improve			1.16	
Maintain			1.16	
Close/Block				
Vacate				.24

VII. AQUATIC RESOURCES AND WATER QUALITY:

Stout Creek, a small fish stream, dissects the proposed harvest unit. Five nonfish streams are located within the proposed harvest area and all flow into Stout Creek. The riparian area overstory is mainly Douglas-fir and red alder with a small component of western hemlock. Devilsclub, vine maple, and western hemlock can be found within the riparian understory.

See Pages 6 and 7 of the AOP Summary (under Timber Harvest Operations) for the riparian area management guidelines to be utilized.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

This operation was surveyed for Northern Spotted Owls during the 2007 and 2008 survey seasons with no detections. It will be surveyed again during the 2009 survey season.

The operation area was checked against District knowledge for any listed plant location. The operation area was also checked against the Oregon Natural Heritage Program's database of known listed plant locations. No listed plant records were identified within the operation area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based on analysis of USGS 1:24,000 topographic maps and available geologic maps. There may be a few high landslide hazard locations in the sale area. The sale area drains into Stout Creek. The risk of landslides delivering to Stout Creek from the sale area is low. The sale area appears to be located on an old, large, deep-seated landslide landform. The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

X. RECREATION RESOURCES:

There are no developed recreation facilities inside the timber sale boundary. Known recreation activities are dispersed in nature such as hunting, site seeing and target shooting. It will be important for both the operators and visiting public to use caution on roadways. To deter illegal motorized off-road use, illegal fires and garbage dumping in this area, skid roads/spurs will be closed.

XI. CULTURAL RESOURCES:

Pre-operation reconnaissance revealed no visible cultural resource features or artifacts. If discovery is made, the cultural resource will be protected and field staff will consult with the Cultural Resource Specialist in Salem.

XII. SCENIC RESOURCES:

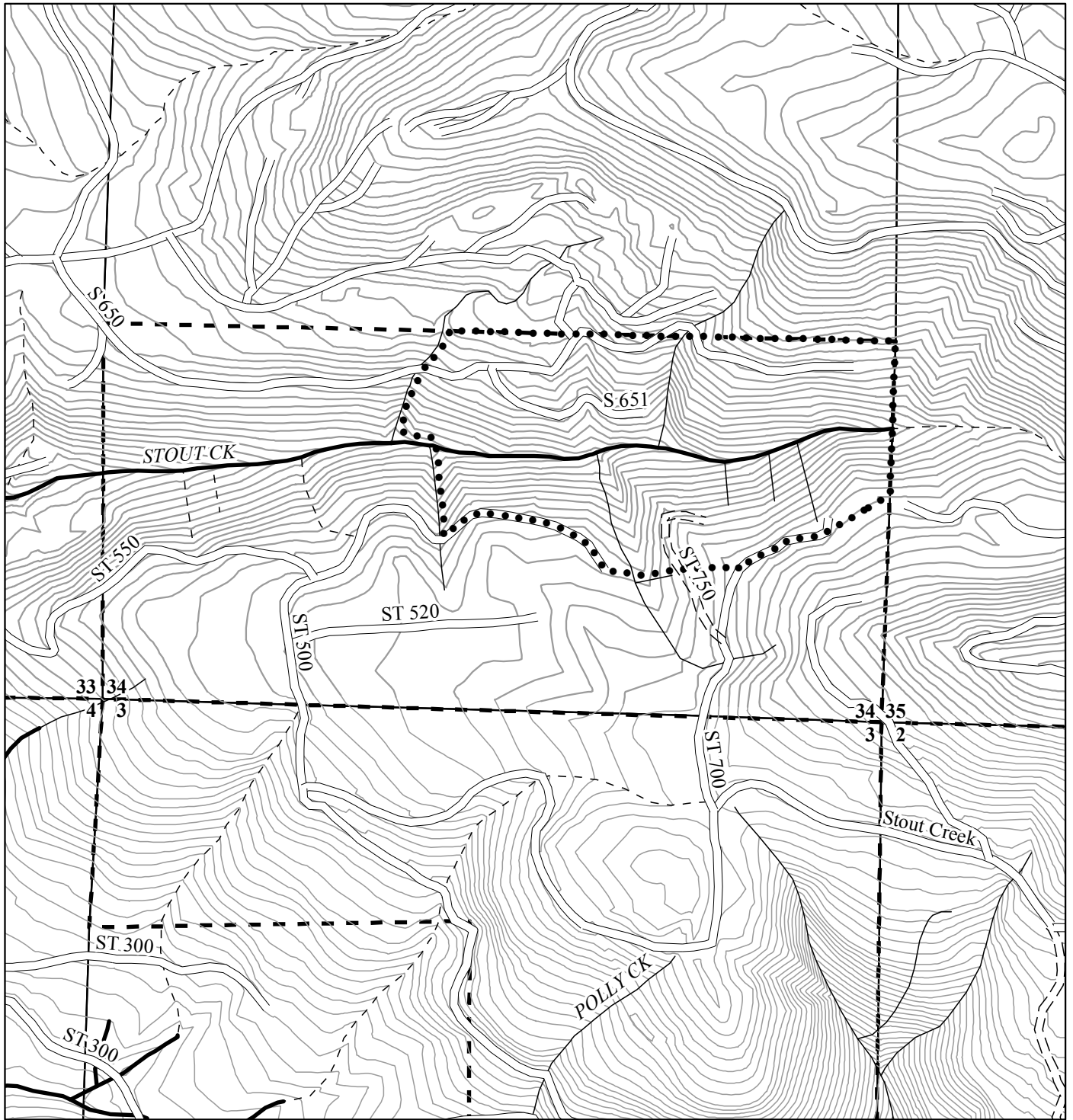
There are no scenic resources located within the operation.

XIII. OTHER RESOURCE CONSIDERATIONS:

To protect air quality, the planned burn will comply with the Oregon Smoke Management Plan. The Smoke Management Plan is designed to reduce emissions from prescribed burning in western Oregon and to minimize smoke intrusions into designated population areas.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The operation contains Focused and Special Stewardship, Aquatic and Riparian Habitat for Stout Creek and the five small streams. See Section VII, Aquatic Resources and Water Quality, for more information.



SILVER CREEK

FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT A : TOPOGRAPHY

PORTIONS OF SECTION 34
 T8S, R2E, W.M.
 MARION COUNTY, OR

Scale
 1:12,000

1 inch equals 1,000 feet

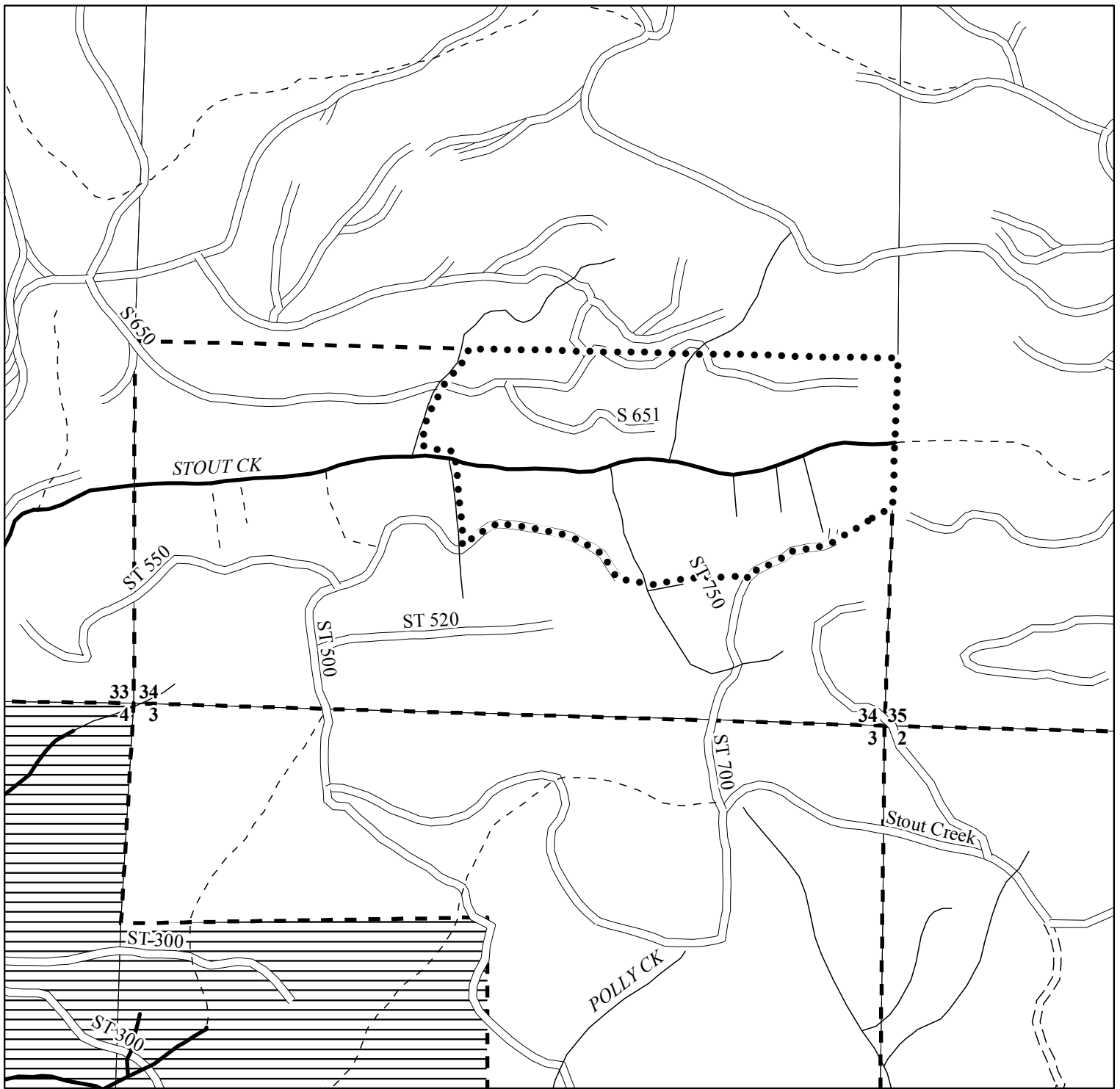


APPROXIMATE NET ACRES: 86 (RC)

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

Legend

- Sale Boundary
- ==== Surfaced Road
- Unsurfaced
- Type F Stream
- Type N Stream
- Unknown Stream
- - - Santiam State Forest
- 20 Foot Contour Lines



SILVER CREEK

FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT B : DESIRED FUTURE CONDITION

PORTIONS OF SECTION 34
 T8S, R2E, W.M.
 MARION COUNTY, OR



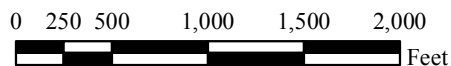
APPROXIMATE NET ACRES: 86 (RC)

Legend

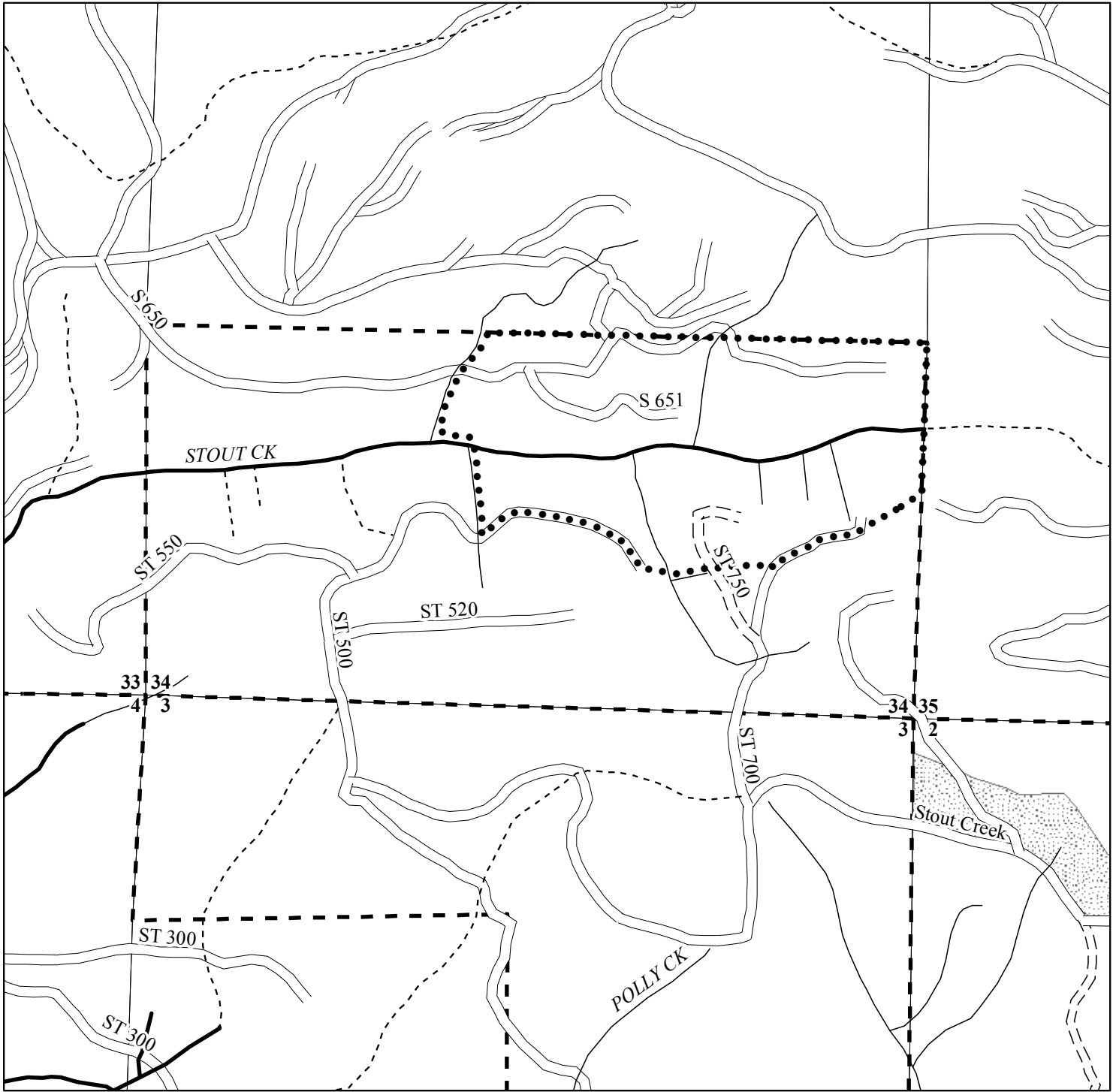
- Sale Boundary
- Road Construction
- ==== Surfaced Road
- ==== Unsurfaced
- Type F Stream
- Type N Stream
- Unknown Stream
- //// LYR
- ==== OFS
- Santiam State Forest

Scale
 1:12,000

1 inch equals 1,000 feet



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SILVER CREEK

FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT C : KEY RESOURCES
 PORTIONS OF SECTION 34
 T8S, R2E, W.M.
 MARION COUNTY, OR

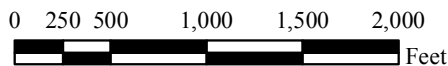


Legend

- Sale Boundary
- Surfaced Road
- Road Construction
- Type F Stream
- Type N Stream
- - - - Unknown Stream
- ■ ■ ■ Santiam State Forest
- ▨ Focused Visual

Scale
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1 inch equals 1,000 feet



APPROXIMATE NET ACRES: 86 (RC)

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