

Pre-Operations Report

Operation Name: Party Butte
County: Clackamas
Management Basin: Butte Creek

Table 1. Operation Areas, Types and Acres

Area	Harvest Type	Gross Acres	Net Acres
1	Modified Clearcut	33	31
2	Modified Clearcut	95	92
Total		128	123

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). Area I ranges in elevation from 2200 to 2600 with gentle slopes of 0 to 30 percent in the east third of the unit and moderate slopes of 40 to 60 percent in the west two thirds. Area II has elevations between 2800 and 2900 feet with gentle slopes in the north half of the unit and moderate slopes along the BC600 Road.

Pechuck soils are found within the operation area. 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:

Area I is currently classified as Closed Single Canopy (CSC). Within Area I are two stand types. Douglas-fir is the main overstory species with minor components of western hemlock and red alder in both stand types. The east side of Area I has larger diameter trees, fewer trees per acre, and more grassy openings than the west side. Understory species of vine maple, ocean spray, salal, and dwarf Oregon grape are found in both stand types of Area I. No SLI data is available for snags and down wood in Area I. Field reconnaissance (2008) indicated down wood is lacking.

Area II is currently classified as Understory (UDS). In Area II Douglas-fir is the main overstory species with smaller amounts of western hemlock and red alder. Understory species include vine maple, salal, dwarf Oregon grape, ocean spray, and sword fern. There are 2 snags per acre greater than 24 inches. Sound down wood per acre averages 23 cubic feet and down wood in all decay classes averages 1,600 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	MC	12241	DF	60	14	196	205	51	33
II	MC	12180	DF	63	20	190	84	43	10
	MC	12251	DF	64	20	157	70	36	17
	MC	12252	DF	64	20	157	70	36	14
	MC	12253	DF	60	19	202	97	45	35
	MC	12254	DF	64	20	157	70	36	19

¹The source of stand inventory information for stand 12241 is field reconnaissance in October 2008. The source of stand inventory information for stands 12180, 12253, and 12254 was SLI from 2002. Stands 12251 and 12252 do not have SLI data. They were estimated to be similar to stand 12254.

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 within the Butte Creek Basin. Approximately 57 percent of this basin is planned for Complex Structure stands. (*Cascade District Implementation Plan, 2003*) This basin contains mature, even aged Douglas-fir mixed with minor amounts of western hemlock, noble fir and tag alder stringers along streams. This basin also contains high elevation lakes and steep rock outcroppings.

The DFC for Area I is General. (*Cascade District Implementation Plan, 2003*). The **Anticipated Pathway for Area I** begins with a regeneration harvest of the overstory.

- Modified clearcut of the current stand. Replant with a mixture of Douglas-fir and western red cedar.
- Slash will be machine piled on the ground based portions of the operation and burned in the wet season.
- In 10-15 years, the stand will be evaluated for a PCT (pre-commercial thinning). A first entry commercial thinning is planned around age 40.
- A final harvest will be considered around age 75-80.

The DFC for Area II is General. (*Cascade District Implementation Plan, 2003*). The **Anticipated Pathway for Area II** begins with a regeneration harvest of the overstory.

- Modified clearcut of the current stand. Replant with a mixture of Douglas-fir and western red cedar.
- Slash will be machine piled on the ground based portions of the operation and burned in the wet season.
- Whole tree yarding will be allowed on the cable areas to help reduce slash loading.
- In 10-15 years, the stand will be evaluated for a PCT (pre-commercial thinning).
- 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	12241	CSC	REG	GEN	33
2	12180,12251, 12252,12253, 12254	UDS	REG	GEN	95

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 12241, is:

- Modified clearcut of the current stand.
- 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. Reserve old growth trees in the south east corner. Some of the green trees will be left along the stream - outside the 25 foot no touch buffer. The remaining trees will be 20 inches DBH or larger.
- 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 will be evaluated at sale layout. If additional down wood is needed to meet landscape targets, it will be added. This material is expected to come during the operation from cull material and top logs with oversized knots.

The **proposed management prescription for Area II**, types 12180, 12251, 12252, 12253, and 12254, is:

- Modified clearcut of the current stand.
- 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.
- Leave trees will be conifers 20 inches DBH or larger.
- The slash from the operation will be piled and burned.
- The site will be replanted with Douglas-fir and western red cedar seedlings.
- Down wood will be evaluated at sale layout. If additional down wood is needed to meet landscape targets, it will be added.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	3,000		3,000
Stumpage Value (\$/MBF)	\$280		
Estimated Gross Value	\$840,000		\$840,000
		Project Costs:	\$15,000
		Estimated Net Value:	\$825,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to Area 1 will be via Sawtell Road, Butte Creek Mainline, BC 500, BC 300 and the BC 350 and Area 2 is accessed via Sawtell Road, Butte Creek Mainline and the BC 600. With the exception of the BC 300 and BC 350 the remaining roads are currently all weather roads.

Approximately 0.34 miles of road will be constructed to facilitate logging. The two spurs will be unsurfaced and outsloped. A road easement for log haul will need to be obtained from the Bureau of Land Management for the BC 300 and BC 350. Additional project work includes installing two culverts on the Butte Creek Mainline and one on the BC 500.

New road construction is limited to ridgetops and gentle to moderate sideslopes.

With the exception of the BC 300, BC 350 and the new construction, all roads will have high quality crushed rock or pit run surfacing. Roads will provide access to all timber within sale area and allow for logging methods and hauling, which will minimize impacts to soil, residual timber, streams and riparian areas.

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

Project work costs are estimated to be \$15,000.

Area 1 is 25% cable yarding and 75% ground yarding.
Area 2 is 100% ground yarding.

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct				.34
Improve				
Maintain		.72	.74	.34
Close/Block				
Vacate				.34

VII. AQUATIC RESOURCES AND WATER QUALITY:

The proposed harvest area contains one small perennial nonfish stream in Area I that flows southwest into Butte Creek. The riparian area overstory is mainly Douglas-fir and red alder with a small component of western hemlock. Oregon grape, salal, vine maple, and ocean spray 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 2008 survey season 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 Area I. There are no high landslide hazard locations in Area II. Area I and the southern portion of Area II drain into Butte Creek. The northern portion of Area II drain to Fall Creek. The risk of landslides delivering to these streams from the sale area is low.

X. RECREATION RESOURCES:

While there are no developed recreation facilities inside the timber sale boundary, the Butte Creek Mainline Road is a well used access route. Most 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. Within the timber sale boundary is an area heavily impacted by motorized off highway vehicle use. A large "mud bog" has been developed due to misuse. Steps in the past have been taken to close access to this location. Once the timber sale is complete the area will be extensively blocked. Skid roads and OHV access trails into the timber sale boundary will be blocked with large woody debris and/or boulders. On those roads to be closed debris should be scattered 50-100 feet along the surface. This will deter vehicles from driving around a narrow barrier such as a log or row of root wads.

Volunteers and school groups will rehab the mud bog area by planting native trees and plants once the timber sale is completed.

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:

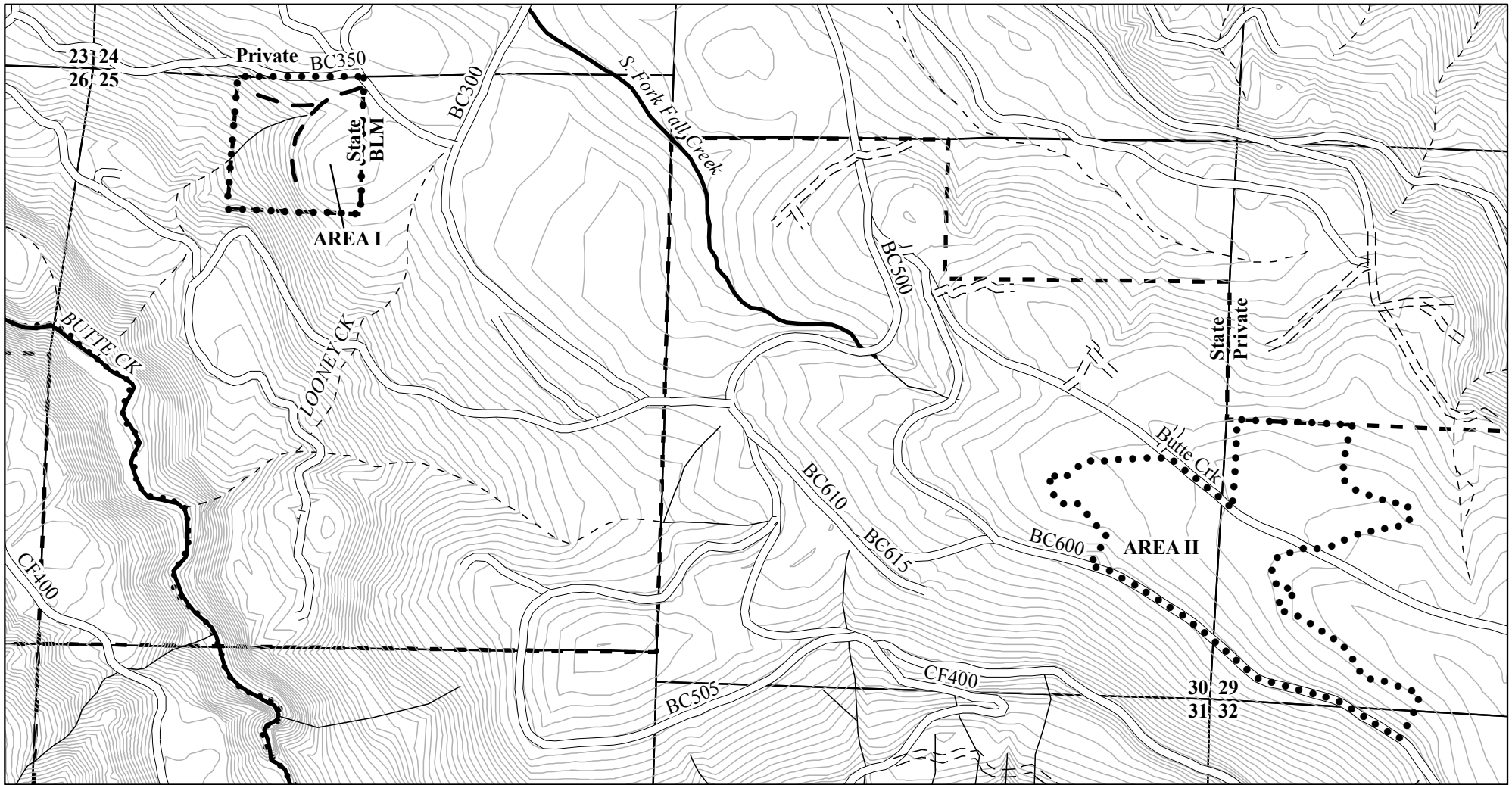
There are no scenic resources located within the operation.

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 the small nonfish stream in Area I. See Section VII, Aquatic Resources and Water Quality, for more information.



PARTY BUTTE

FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT A : TOPOGRAPHY

PORTIONS OF SECTION 25, T7S, R2E, W.M.
 PORTIONS OF SECTIONS 29, 30, & 32, T7S, R3E, W.M.
 CLACKAMAS COUNTY, OR

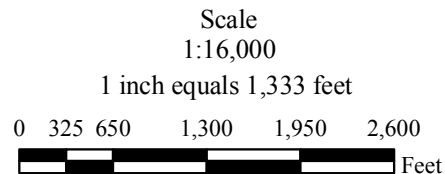
APPROX. NET ACRES:

AREA	ACRES
I	31 (MC)
II	92 (MC)
TOTAL	123

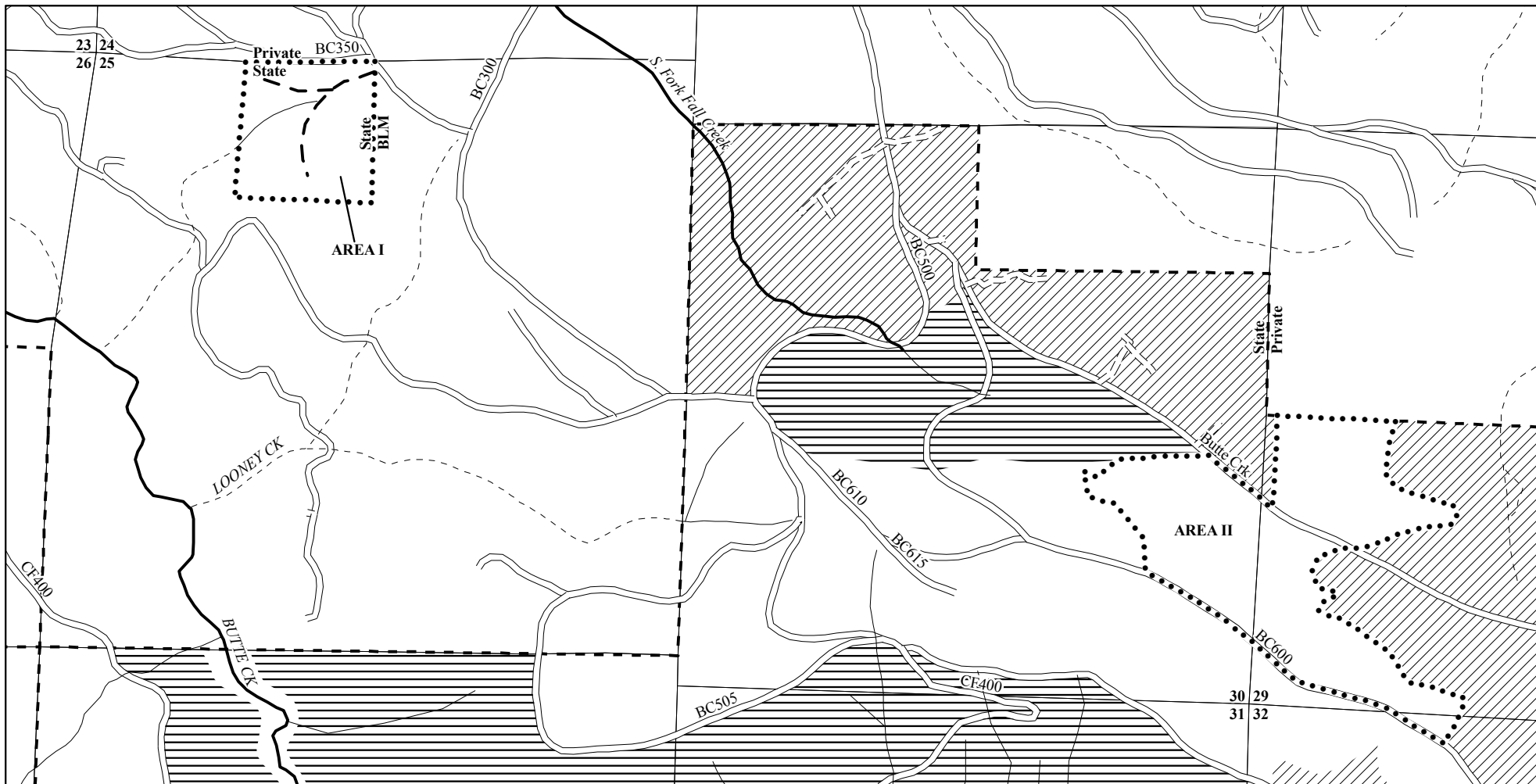


Legend

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



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



Legend

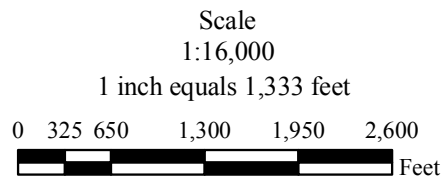
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- — — Road Construction
- ==== Surfaced Road
- ==== Unsurfaced
- Type F Stream
- Type N Stream
- Unknown Stream
- //// LYR
- ==== OFS
- Santiam State Forest

PARTY BUTTE

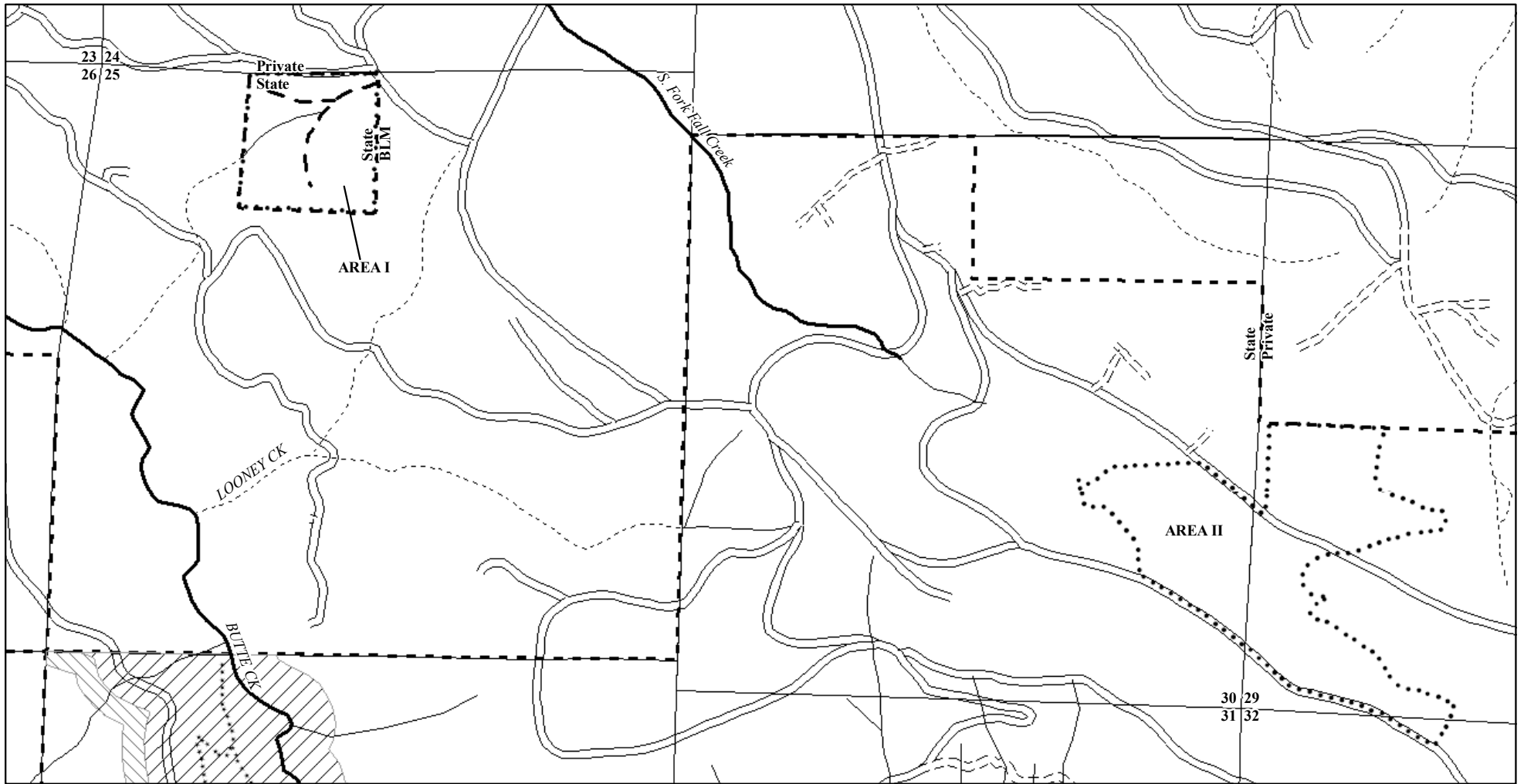
FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT B: DESIRED FUTURE CONDITION
 PORTIONS OF SECTION 25, T7S, R2E, W.M.
 PORTIONS OF SECTIONS 29, 30, & 32, T7S, R3E, W.M.
 CLACKAMAS COUNTY, OR

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Legend

- Sale Boundary
- — — Road Construction
- ==== Surfaced Road
- Type F Stream
- Type N Stream
- - - - - Unknown Stream
- ■ ■ Santiam State Forest
- ▨▨▨▨ Focused Recreation
- ▧▧▧▧ Special Recreation
- ***** Trails

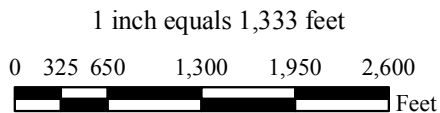
PARTY BUTTE

FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT C: KEY RESOURCES
 PORTIONS OF SECTION 25, T7S, R2E, W.M.
 PORTIONS OF SECTIONS 29, 30, & 32, T7S, R3E, W.M.
 CLACKAMAS COUNTY, OR

APPROX. NET ACRES:	
AREA	ACRES
I	31 (MC)
II	92 (MC)
TOTAL	123



Scale
 1:16,000



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