

Pre-Operations Report

Operation Name: Polly Power (ALT)
County: Marion
Management Basin: Scattered

Table 1. Operation Areas, Types and Acres

Area	Harvest Type	Gross Acres	Net Acres
1	Retention Cut	68	65

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 soils are classed in the Pechuck series. This soil is a deep, well-drained, moderately fine-textured colluvial soil that developed from Miocene age andesite. In general, these soils are a gravelly loam to gravelly clay loam with varying amounts of rock from the A horizon to the C Horizon. It lies over Andesite bedrock which is at a depth generally greater than 50 inches. The elevations range from 1760 to 2340 feet, the aspect is north and the slopes are a moderate 40 to 55 percent.

II. CURRENT STAND CONDITION:

This stand is currently classified as Understory (UDS). This is a low volume underproductive stand with dense vine maple in the openings. The overstory is 50 to 80 year old Douglas-fir with bigleaf maple and cherry in the midstory. The understory, in addition to vine maple, consists of hazel, salal, ocean spray, Oregon grape, sword fern, and oxalis. In decay classes 3 through 5 there are 2 snags per acre that are 24 inches and larger. In decay classes 3 through 5 there are 12 pieces per acre of down wood totaling 2,000 cubic feet larger than 24 inches and 300 cubic feet per acre of down wood 24 inches and smaller. (SLI, 2002)

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
1	RC	12354	DF	50-80	20	184	88	43	68
		Target ³			35	60	9	11	

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:

The DFC for the Timber Sale Area is a mature fully stocked stand of mixed conifer species consisting primarily of Douglas-fir with lesser amounts of western red cedar. Large remnant green trees and snags from the previous rotation will persist in the stand.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	12354	UDS	REG	General	68

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

IV. PROPOSED MANAGEMENT PRESCRIPTION:

The objective of the operation is to remove the current poorly stocked, underproductive stand, establish an intensively managed new stand, and maintain or develop structural components important to habitat diversity. The following prescription is designed to accomplish this:

- Remove all trees larger than 8" DBH except reserve trees.
- Reserve Douglas fir and hardwoods larger than 30" DBH from cutting. Sufficient additional trees greater than 20" DBH will be left to save a total of 7 green conifer trees per acre and 9 total green trees per acre. If needed, 2 snags and 2 down logs will be created from the residual green trees.
- Retain all existing snags that are not safety hazards.
- Fresh down wood will be added to the sale area by reserving unmerchantable log pieces and cull logs in the unit.
- Pile and burn slash piles to create planting spots and reduce slash. Perform a site-prep spray on the unit as needed.
- Replant the sale area with a mixture of Douglas-fir and western red cedar.

As the stand initiated with this operation grows, it is expected that the overstory crowns will close in and a CSC condition will develop. Periodic thinning will open up the canopy and temporarily allow an understory to develop, creating an Understory (UDS) stand condition. As the overstory crowns continue to grow and close, it is expected that the stand will revert to CSC condition until the next entry in the cutting cycle. This balance between CSC and UDS will persist over time until the stand is harvested again.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		x
Planned Quarter:		3	
	Conifer	Hardwood	Total
Net Volume (MBF)	1200	80	1280
Stumpage Value (\$/MBF)	\$300	\$200	
Estimated Gross Value	\$360,000	\$16,000	\$376,000
		Project Costs:	\$5,200
		Estimated Net Value:	\$370,800

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to this sale will be via Highway 22, Wagner Road, Stout Creek Road and ST200. These are currently all weather roads.

Approximately 0.63 miles of existing natural surfaced road will be improved, which includes mechanically brushing, grading, shaping and minor road surface repairs. Approximately 500 feet of this road will be truck assist. This road is a powerline access road and the Bonneville Power Administration will need to be notified of work being completed. This work will bring all roads up to standards in the Forest Roads Manual.

Approximately 0.34 miles of road will be constructed to facilitate cable yarding. This spur will be unsurfaced and outsloped. New road construction is limited to ridgetops and gentle to moderate side slopes. One seasonal type "N" stream will be crossed with the new road construction.

With the exception of the new construction and the powerline access road, all haul roads will have high quality crushed rock or pit run surfacing. Roads will provide access to all timber within the 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 the sale area will be evaluated for closure.

Project work and their estimated costs are \$5,200.

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

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct				0.34
Improve				0.63
Maintain		1.0		0.97
Close/Block				0.34

Vacate				
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VII. AQUATIC RESOURCES AND WATER QUALITY:

Three seasonal Type N tributaries of Polly Creek flow north to south through the proposed sale area. The riparian vegetation includes red alder, thimbleberry, salmonberry, oxalis, and sword fern. Riparian management area buffers will be established immediately adjacent to streams for the purpose of protecting aquatic and riparian resources and maintaining the functions and ecological processes of the streams. The streams have very defined “gorge” areas and buffers will be posted on the slope break to minimize damage to the stream channels. The buffer width will vary but will be no less than 25 feet horizontal distance from the channel.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

While the sale is not located within any Northern Spotted Owl circles, the sale area was determined to be suitable habitat for this species. Surveys were completed to protocol in the 2007 survey year with no responses. An additional year of surveys will be completed in 2008.

The sale area was checked against the Oregon Natural Heritage Program database of known listed plant locations. It was also checked against district knowledge for any listed plant location. No listed plant records were identified within the sale area.

VIII. 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 Polly Creek. The risk of landslides delivering to Polly 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:

District cultural resource inventory and pre-operation reconnaissance revealed no visible cultural resource features or artifacts. If discovery of an artifact is made, the cultural resource will be protected and field personnel will consult with the Cultural Resource Specialist in Salem.

XII. SCENIC RESOURCES:

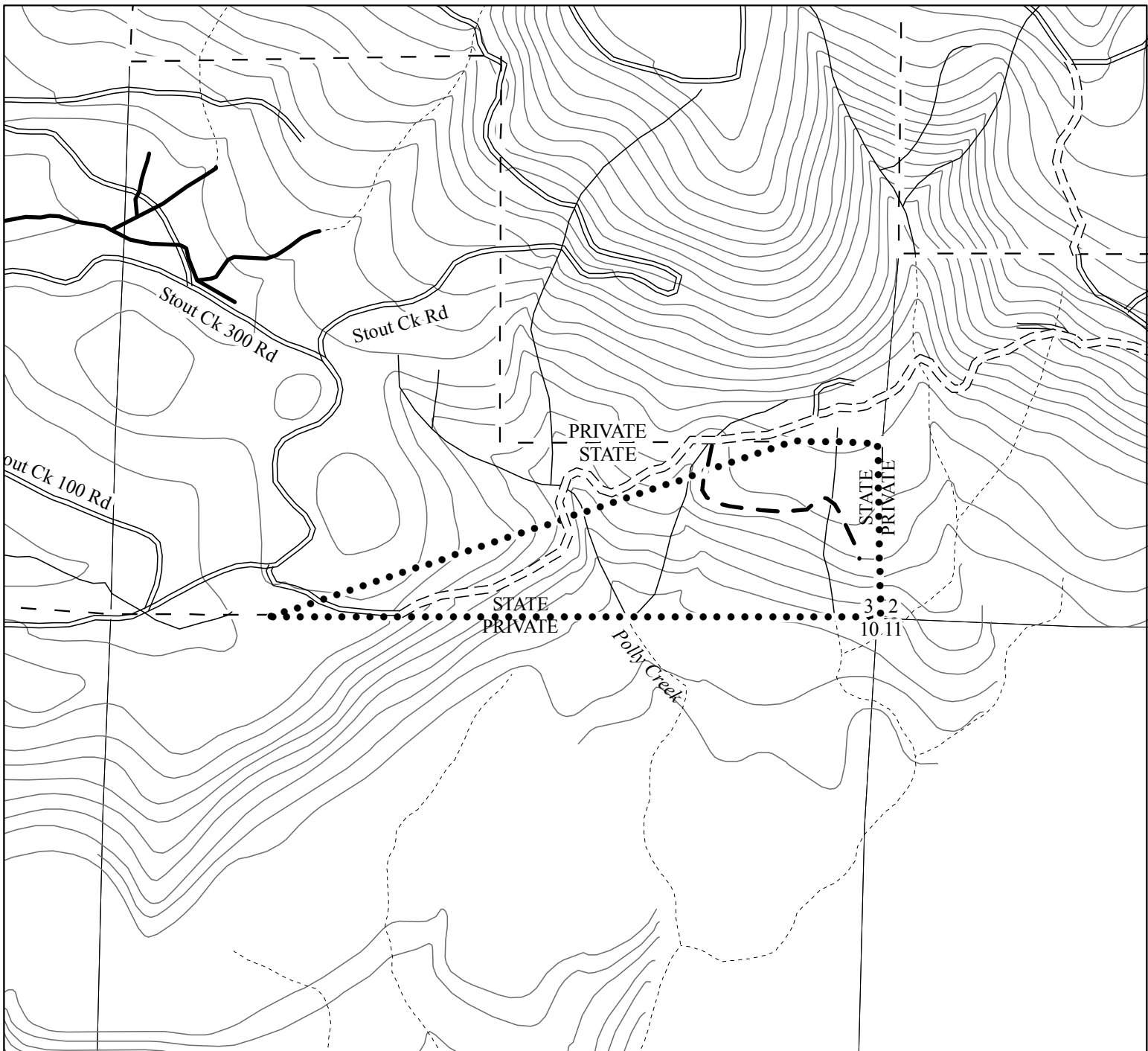
There are no scenic considerations associated with this operation

XIII. OTHER RESOURCE CONSIDERATIONS:

A Bonneville Power Administration (BPA) powerline right of way is immediately adjacent to the proposed north timber sale boundary. The BPA will be notified of our proposed activity and their guidelines for logging activities on or near BPA rights-of-way will be followed.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Of the 68 gross acres in the operational area, 51 are classified as General, 15 are classified as Focused and two classified as Special. All are within the Aquatic and Riparian Habitat subclass.

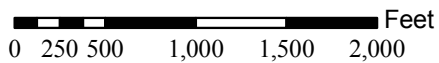


POLLY POWER

FY 09 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT A : TOPOGRAPHY

PORTIONS OF SECTION 3
 T9S, R2E, W.M.
 MARION COUNTY, OR

Scale
 1:12,000
 1 inch = 1000 feet

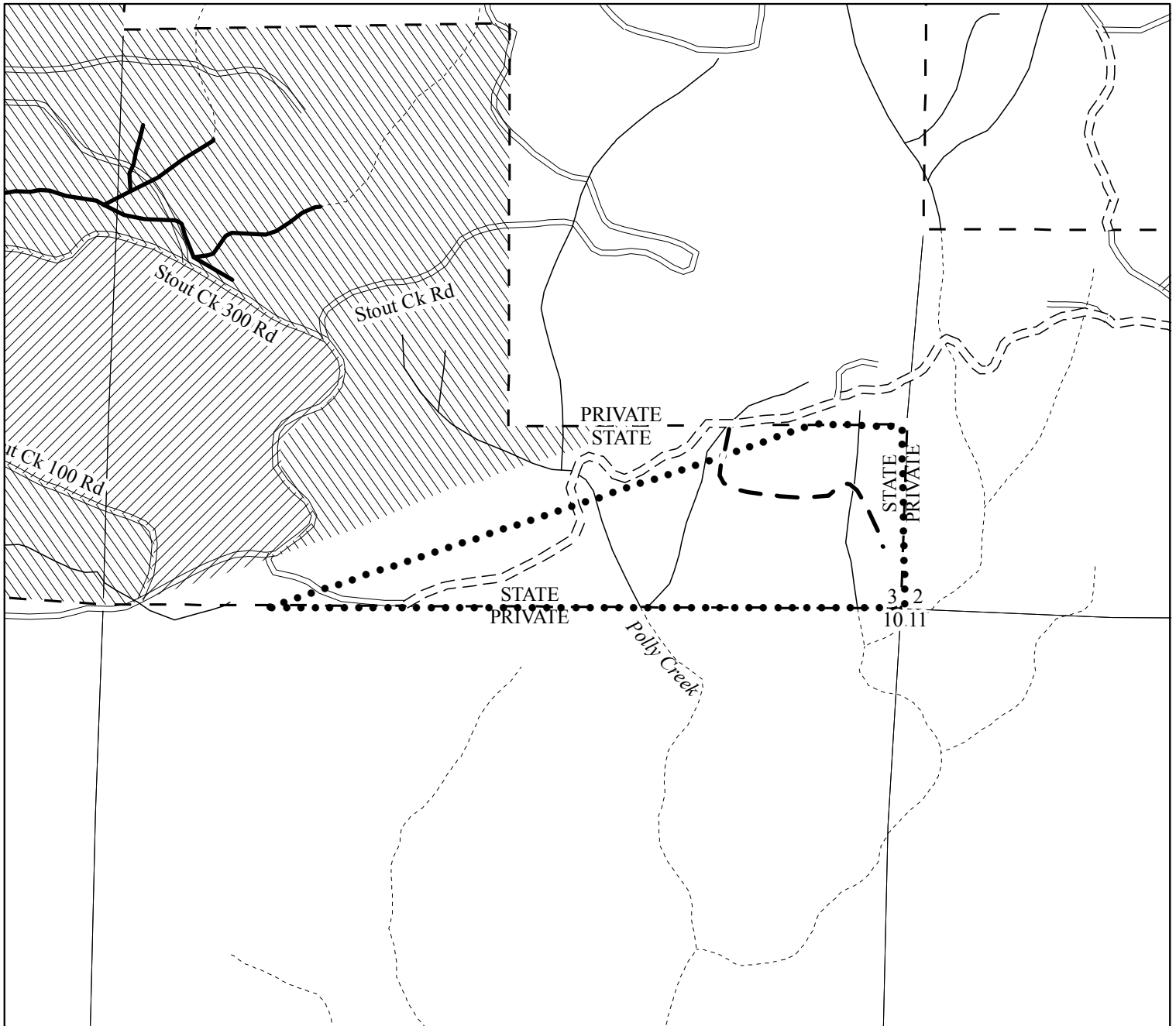


APPROXIMATE NET ACRES: 65 (RC)

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

Legend

- Sale Boundaries
- ==== Surfaced Road
- : Unsurfaced Road
- New Road Construction
- Type F Stream
- Type N Stream
- Unknown Stream
- - - State Forest Property Boundary
- 40 Foot Contours



POLLY POWER

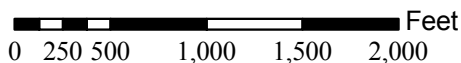
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 NORTH CASCADE DISTRICT
 ATTACHMENT B : DESIRED FUTURE CONDITION

PORTIONS OF SECTION 3
 T9S, R2E, W.M.
 MARION COUNTY, OR

Legend

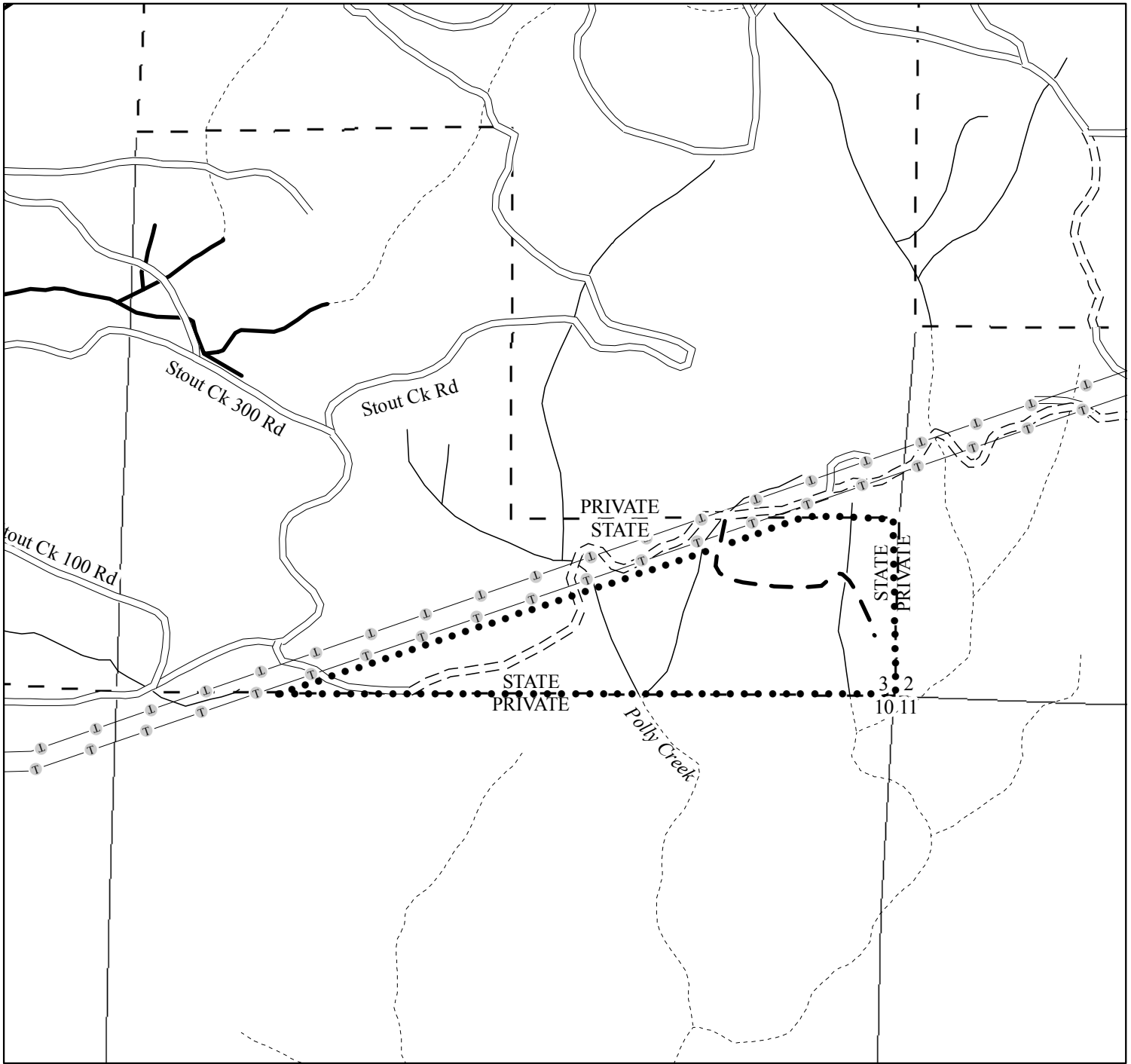
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- - - - Unknown Stream
- //// LYR
- \\\\ OFS
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 ATTACHMENT C : KEY RESOURCES

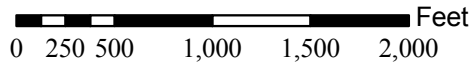
PORTIONS OF SECTION 3
 T9S, R2E, W.M.
 MARION COUNTY, OR

APPROXIMATE NET ACRES: 65 (RC)

Legend

- Sale Boundaries
- ==== Surfaced Road
- Unsurfaced Road
- New Road Construction
- Type F Stream
- Type N Stream
- Unknown Stream
- ⊕—⊕ Transmission Line
- - State Forest Property Boundary

Scale
 1:12,000
 1 inch = 1000 feet



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