

Pre-Operations Report

Operation Name: Blind Faith
County: Washington County
Management Basin: Sunday Creek

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Modified Clearcut	133	113
Total	Regeneration Harvest	133	113

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The sale is located on a gentle ridgetop and moderate side-slopes in the headwaters of the Tualatin River.

Slopes have a north aspect and range from 10% to 60%. Elevation of the sale area ranges from 1680 to 2320 feet. Grindstone and Killam are the major soil types.

II. CURRENT STAND CONDITION:

The sale area burned in the 1933 and 1939 Tillamook Burns. It was then seeded in the mid 1950's and again in the mid 1970's. There has not been any other stand management.

The entire sale area has been inventoried using the Stand Level Inventory (SLI) procedure, and these stands have been classified as UDS.

The stands are comprised almost entirely of moderately stocked Douglas-fir. No significant insect or disease problems have been discovered at this time. Due to numerous gaps in the overstory, there is a heavy brush component throughout the entire sale area.

The understory is comprised primarily of vine maple, sword fern, and salal. SLI data indicates an average of approximately 80% cover.

SLI data estimates 0 snags greater than 15 inches in decay class 0-2. There are approximately 2 snags > 12 inches in all decay classes. The stand also has very low amounts of DWD in decay class 0-2 (approximately 100 cubic feet per acre or less). Total DWD amounts are about 3000 cubic feet per acre.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Net Acres ²	
1	MC ³	8171	DF	45	17	178	114	44	9	
		8183	DF	43	19	241	120	57	28	
		8187	DF	40	19	206	103	48	36	
		8193	DF	33	15	146	128	38	40	
		<i>Target</i> ⁴	<i>REG</i>							113

¹ The source of stand inventory information is from SLI inventory grown forward to 2007.

² The acres are based on GIS and exclude existing and planned roads, stream buffers, and green tree retention areas.

³ MC is Modified Clearcut.

⁴ The Target row for partial cut areas identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

According to the Forest Grove District's landscape design, the desired future condition (DFC) for Area 1 is 92% General and 8% OFS. The sale area includes 9 acres of OFS because the DFC map was developed at a landscape-level scale with a 'broad-brush' approach. In contrast, the sale boundary was delineated at a site-specific scale, based on field and photo reconnaissance, and the location of the sale boundary reflects topographic and operational considerations. The difference in these scales sometimes results in slivers of DFC complex being included in clearcut prescriptions.

After harvest the area will be planted and managed to develop into a vigorously growing stand that will grow quickly through the early seral stages.

When the next modified clearcut harvest occurs in this area, the stand will be 60-70 years old and will be in the UDS condition. The area will consist of Douglas-fir with a few isolated pockets of alder, hemlock, and cedar. Where there are gaps in the overstory, there may be an understory of hemlock, cedar and brush (vinemaple, huckleberry, sword fern, Oregon grape, others). Legacy trees left from the first regeneration harvest will mostly be located along the seasonal streams. Snags and other green trees will be dispersed relatively evenly throughout the area. On average, 901 ft³/acre of DWD in decay classes 1-2 will be scattered through the unit.

Table 3. Stand Structure Information

Area	Prescription	Stand ID	Current	Post Harvest ¹	Desired Future	Net Acres
1	MC	8171	UDS	REG	GEN	9
		8183	UDS	REG	GEN	28
		8187	UDS	REG	GEN	36
		8193	UDS	REG	GEN	31
					OFS	9

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.

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

This harvest will be a modified clearcut.

A variety of methods will be used to achieve green tree retention requirements, which include leave areas, seasonal stream buffers and scattered green tree retention (GTR). Scattered GTR will be comprised of minor conifer species and the largest and healthiest Douglas-fir. These trees will be left to grow rapidly in open conditions. Throughout their life they will enhance species diversity and will provide large, high quality DWD for the future. Forest Management Plan (FMP) guidelines will be followed to meet targets and objectives (approx. 9-10 per acre).

All existing DWD will be reserved in the sale areas. DWD recruitment is expected through mortality, windthrow of residual trees, felled snags, and logging slash.

Two snags per acre will be created immediately after harvest. This will be accomplished by painting reserve trees by the forester laying out the sale. The trees will be scattered relatively evenly and in clusters of no more than four trees throughout the unit. The timber sale contract will specify that 2 trees per acre shall be topped. Topped trees will be selected from the painted reserve timber. The total number will be determined from total final net acres (226-planned) of the harvest unit. Topped trees will be DF topped at least 50 ft up the bole, be at least 15 inches DBH, and at least 2 live whirles.

Existing snags determined not to be a safety hazard will be retained and any felled snags will be left for down wood. Additional snags may be created from harvest activities and will develop over time through natural processes.

Initially this site will need a post harvest application of herbicide to reduce the abundant brush and ground cover.

Following completion of site prep activities, the areas will be replanted with approximately 85% Douglas-fir and 15% other species including western hemlock and western red cedar at a density between 430 and 550 trees per acre. All cedar will be tubed to deter elk and deer browse. Once planting is complete, the operation area will fit the REG classification.

It is likely that another herbicide application will be needed within the first 3 years after planting in order to release planted conifer from competing brush. By age 12, the stand will have moved from REG to CSC.

It is anticipated that when the stand reaches age 12-15, PCT will be used to reduce total trees to between 200 and 250 trees per acre. This will create an even-aged and sized stand that maximizes timber growth. We would expect to leave the biggest and best trees, while also trying to maintain the existing species diversity.

At approximately age 35 the area will be capable of supporting a commercial thin. Contingent on goals in the year 2040, this area could be thinned to an RD of 30-35, capturing volume that would be lost due to competition mortality. This thinning would also move the stands on the pathway from CSC to UDS by opening the stands enough to allow vegetation to grow in the understory. Approximately 5-10 years following this thinning, the UDS condition will be achieved.

Beyond this, the stand could be thinned to further develop the stand toward a complex structure or be a good candidate for modified clearcut.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		X
Planned Quarter: 3			

	Conifer	Hardwood	Total
Net Volume (MBF)	4,000		4,000
Stumpage Value (\$/MBF)	\$350		
Estimated Gross Value	\$1,400,000		\$1,400,000
		Project Costs:	\$70,000
		Estimated Net Value:	\$1,330,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

The sale areas are accessed via Turner Creek mainline and North Fork Trask River Road. These are currently all-weather, crushed rock roads. Access is through Weyerhaeuser and BLM owned land. Two gates are along the haul route. ODF has an easement for all non ODF managed roads. Road use fees will not apply.

Approximately 1.0 mile of road will be constructed to provide access to cable yarding or landing locations. New construction is limited to ridgetops and gentle to moderate sideslopes. Proposed roads will not cross any perennial streams.

The rock source will be the Barney Pit.

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 soils, residual timber, streams, and riparian areas.

Estimated cost of project work is \$70,000.

All skid trails within the sale areas will be blocked and closed upon completion of use.

The operation will be 75% cable yarding and 25% ground yarding.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0	0	1.0	0
Improvement	0	0	0	0
Maintenance	4.5 ¹	6.0	1.0	0
Closure/Vacation	0	0	0	0

¹Includes third party roads

VII. AQUATIC RESOURCES AND WATER QUALITY:

There are approximately 8 seasonal streams within or adjacent to the sale area. All streams are direct tributaries of the Tualatin River. The Tualatin River is a municipal water source.

Streams will be buffered and protected according to FMP strategies. All streams will be evaluated more closely during sale layout. Portions of the largest seasonal streams will be buffered for green tree retention areas.

In order to protect water quality during active operations, a variety of methods will be used to prevent sediment from entering live streams. These methods include (but are not limited to) maintaining culverts and other road drainage structures, using sediment control devices in road ditches when necessary, and seasonal restrictions on logging and hauling operations. Restrictions may include limiting the number of loads hauled per day, not hauling during periods of heavy moisture, or having an alternate haul route. Culvert installment and replacement in live streams will be conducted between July 1 and September 15. Operations outside of this period will be reviewed with ODFW.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist.

Surveys for northern spotted owls were conducted in 2006 and 2007 due to the presence of potentially suitable spotted owl habitat within and adjacent to the timber sale area. Blind Faith was surveyed for spotted owls three times in 2006 and three times in 2007 with no responses. A third-year survey will be completed in 2008. All surveys were/will be conducted in accordance with USFWS protocol.

Surveys for marbled murrelets are not required, due to the absence of potentially suitable habitat within the sale area. The District T&E Coordinator made the determination that the sale area is non-suitable habitat for marbled murrelets. The ODF wildlife biologist for the NW Oregon Area reviewed and approved this determination.

The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations, as well as against local records in the Land Management Classification System (LMCS). No listed plant records were identified within or adjacent to the sale areas.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

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

There are no high landslide hazard locations in the sale. The sale drains into the headwaters of the Tualatin River. The risk of landslides delivering directly to the Tualatin River from the sale is low (*per Northwest Oregon Area Geotechnical Specialist*).

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

X. RECREATION RESOURCES:

The sale is in the area of the forest designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). There are no recreation facilities in or adjacent to the sale area.

Some dispersed camping and hunting occur in the area; however, this sale is not expected to greatly impact these activities.

XI. CULTURAL RESOURCES:

The sale area and proposed road construction right-of-way were checked against the Tillamook State Forest Cultural Resource Inventory Database (GIS format).

No cultural resource records were identified within or adjacent* to the operation areas. If any significant cultural resources are located during sale preparation, the Public Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

**Adjacent refers to approximately one tree length from an operation area. For the purpose of this screen, a 200 foot buffer around the sale boundary and proposed road construction right-of-way was assessed for cultural resource locations.*

XII. SCENIC RESOURCES:

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

XIII. OTHER RESOURCE CONSIDERATIONS:

No property survey is needed.

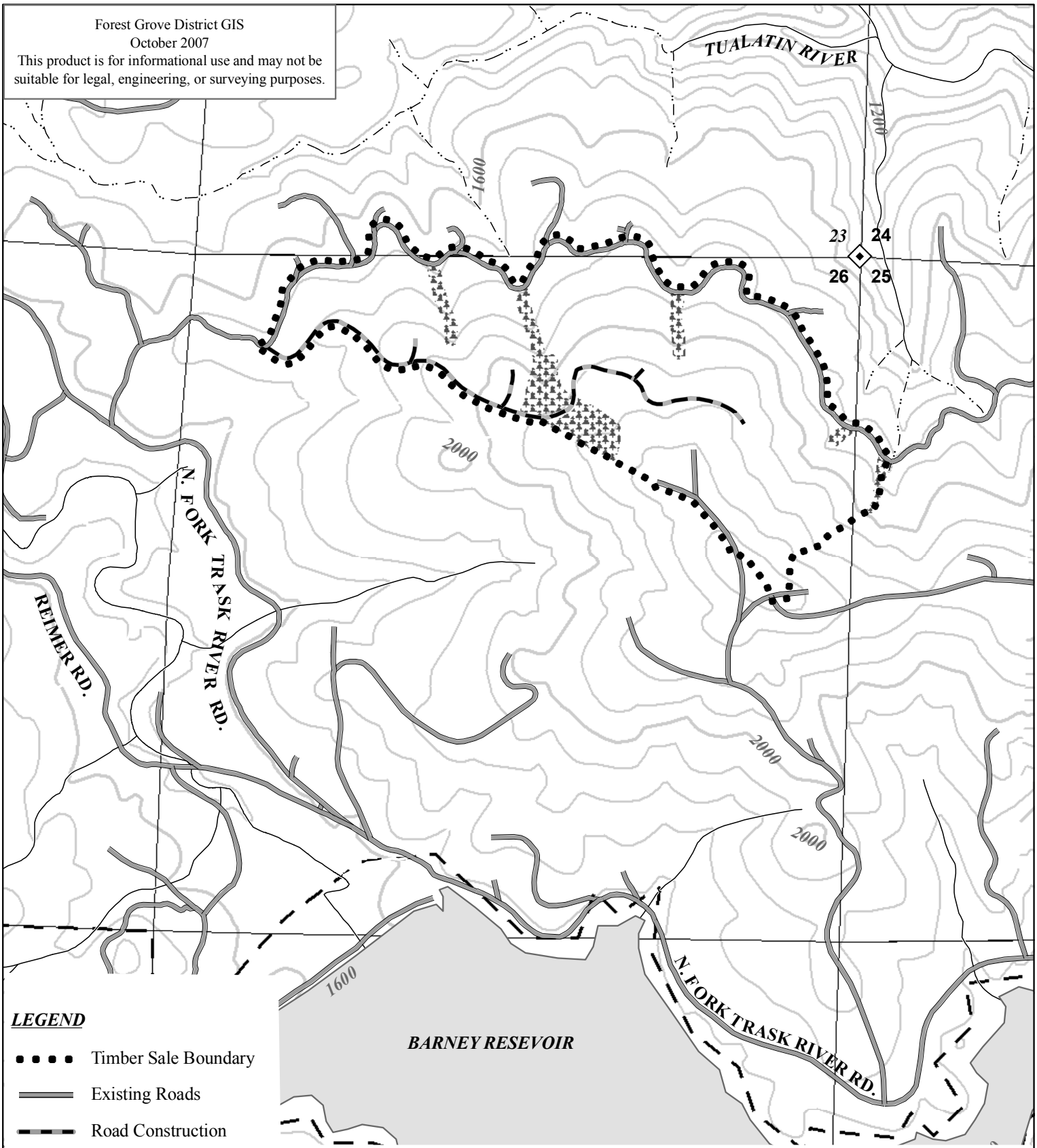
Any survey corners and witness trees shall be protected from damage during any operations.

There is a permanent plot located in the eastern portion of the timber sale.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Forest Grove District's LMCS does not identify any Special or Focused Stewardship within the sale area.

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



LEGEND

- ● ● ● Timber Sale Boundary
- Existing Roads
- - - Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ▣ Green Tree Retention Area
- ▬ ODF Ownership
- 400' Contour Intervals
- 80' Contour Lines

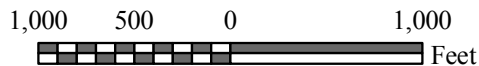
FY 2009
BLIND FAITH
PORTIONS OF SECTIONS 25 & 26, T01S, R06W, W.M.
WASHINGTON COUNTY, OREGON

Attachment A: Topography

Scale

1:12000

1 inch = 1000 feet

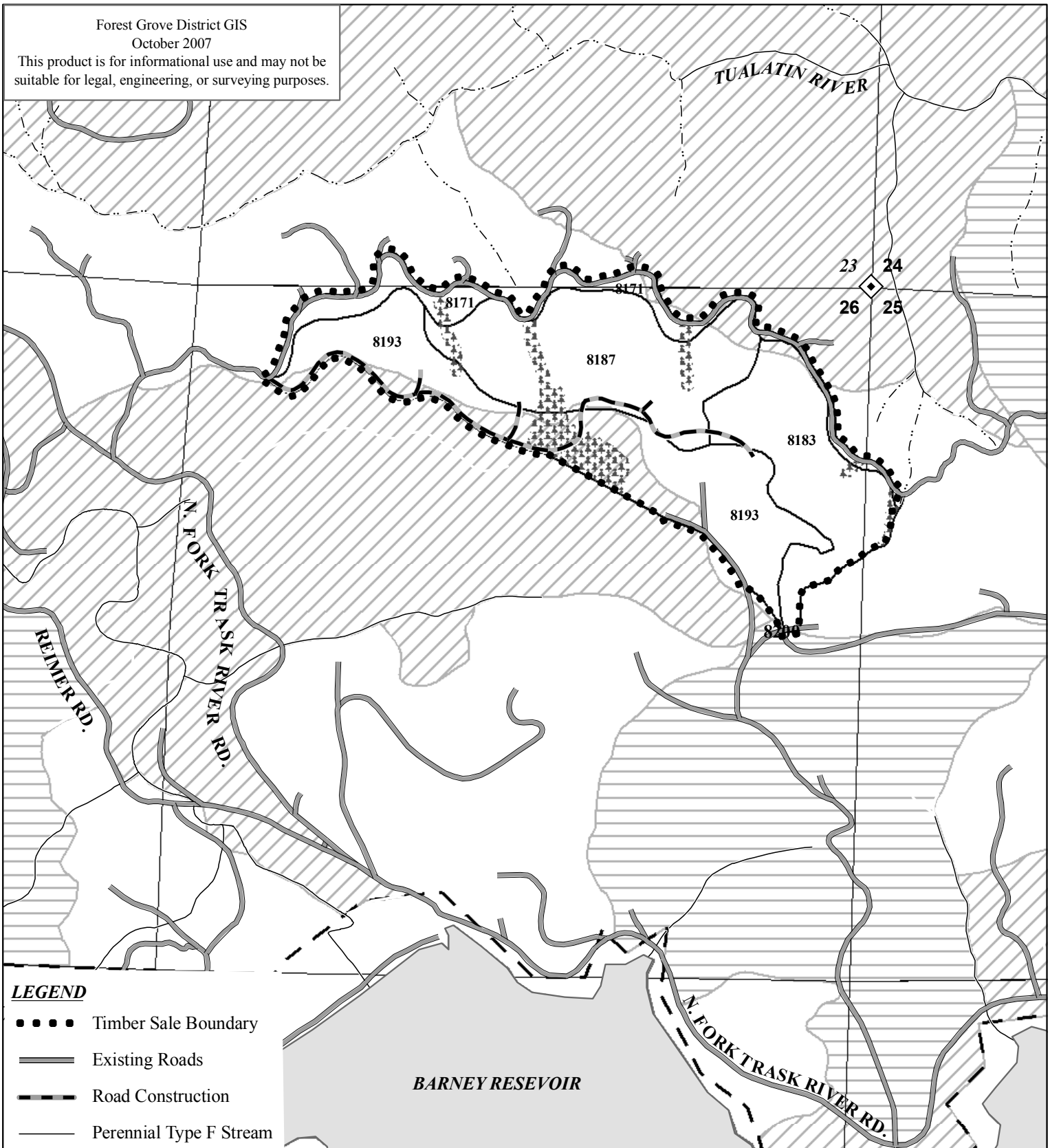


N



APPROXIMATE NET ACREAGE

AREA 1	113 ACRES (MC)
TOTAL	113 ACRES



LEGEND

- Timber Sale Boundary
- Existing Roads
- - - Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- Green Tree Retention Area
- ▬ ODF Ownership
- SLI Polygons (Stand ID#)
- DFC Stand Type
- ▨ Layered
- ▩ Older Forest Structure

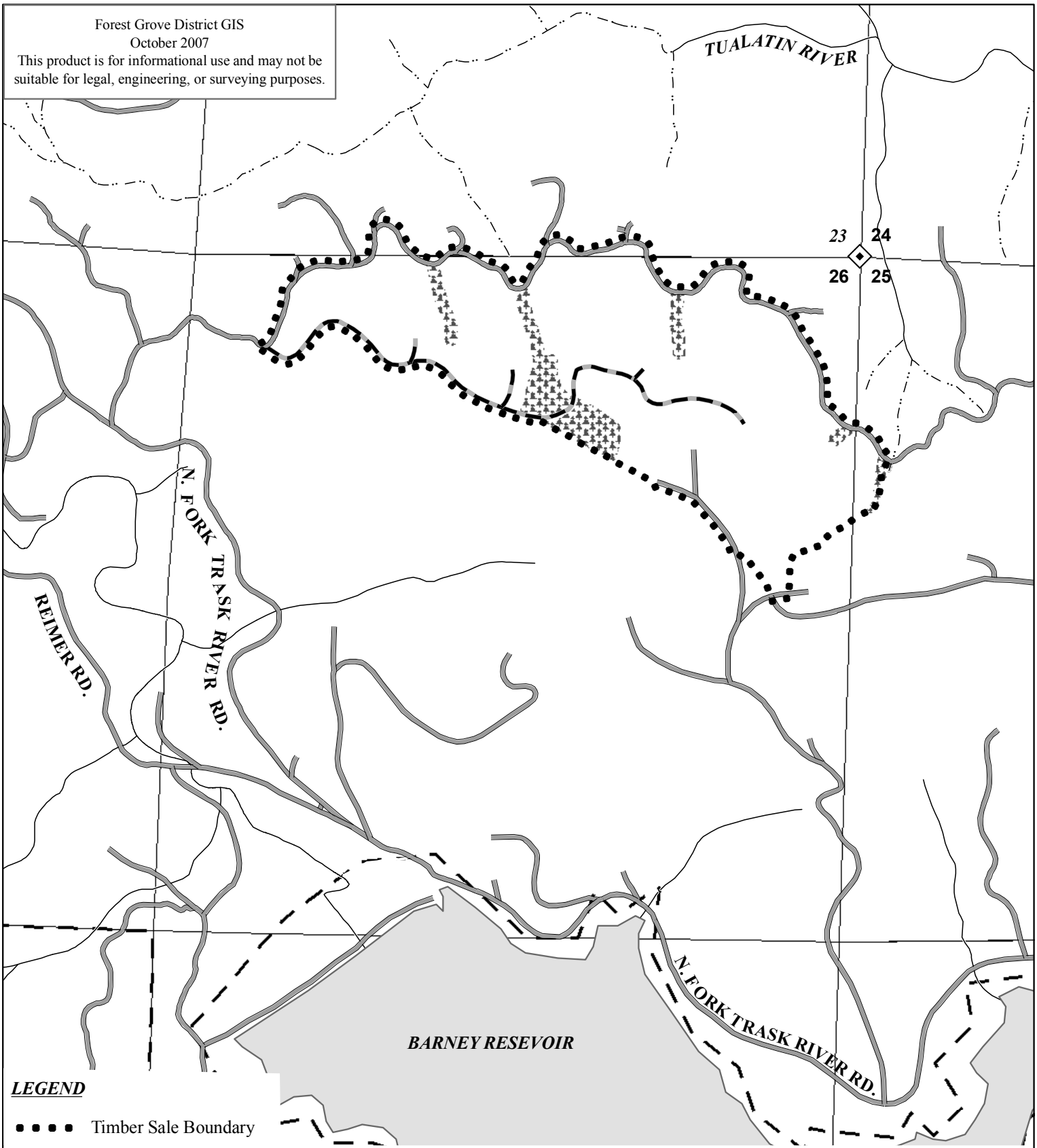
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 BLIND FAITH
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Attachment B: Desired Future Condition

Scale
 1:12000
 1 inch = 1000 feet



APPROXIMATE NET ACREAGE	
AREA 1	113 ACRES (MC)
TOTAL	113 ACRES

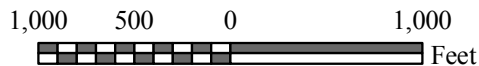


LEGEND

- Timber Sale Boundary
- Existing Roads
- - - Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ■ ■ ■ Green Tree Retention Area
- | - | ODF Ownership

FY 2009
 BLIND FAITH
 PORTIONS OF SECTIONS 25 & 26, T01S, R06W, W.M.
 WASHINGTON COUNTY, OREGON
 Attachment C: Key Resources

Scale
 1:12000
 1 inch = 1000 feet



APPROXIMATE NET ACREAGE	
AREA 1	113 ACRES (MC)
TOTAL	113 ACRES