

Pre-Operations Report

Operation Name: Happy Gilmore
County: Clatsop
Management Basin: Hamilton

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	PC	80	80
2	PC	10	10
Total	Partial Cut	90	90

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

This sale is located in the southern portion of the Hamilton Basin. The sale areas are within the western hemlock vegetation zone, and are characterized by Douglas-fir stands, with some hemlock, and red alder. The soil series are predominately Tillamook on moderate slopes in both sale areas. Site Index is (average 140) for Douglas-fir and (average 110) for western hemlock. Aspects on both sale units are predominately westerly. The landform of Areas 1 and 2 are gentle to moderate slopes which drain into Hamilton Creek.

II. CURRENT STAND CONDITION:

Area 1- Consists of 42 year old Douglas-fir and western hemlock mixed with scattered pockets of red alder. This stand is classified as an Understory Development (UDS). Area 1 has approximately 6 snags per acre over 12 inches in DBH, and 6 snags per acre over 24 inches in DBH. Area 1 has approximately 7,200 cubic feet per acre of down wood in all decay classes, and approximately 565 cubic feet per acre of down wood in decay classes 1 and 2.

Area 2- Consists of 41 year old Douglas-fir and western hemlock mixed with scattered pockets of red alder. This stand is classified as (UDS). Area 2 has approximately 4 snags per acre over 12 inches in DBH, and 4 snags per acre over 24 inches in DBH. Area 2 has approximately 6,100 cubic feet per acre of down wood in all decay classes, and approximately 441 cubic feet per acre of down wood in decay classes 1 and 2.

Understory development in both areas consists primarily of vine maple, huckleberry, sword fern, and salmonberry.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
1	PC	23887	DF, WH	42	15.3	198	154	50	80
		Target ³			17	130-140	105	30-40	80
2	PC	23878	DF, WH	41	15.4	196	151	50	10
		Target ³			17	130-140	106	30-40	10

¹ The source of stand inventory information is SLI. Age shown is as of 2008.

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

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

III. DESIRED STAND CONDITION/VISION:

Area 1 and 2 have been targeted for a desired future condition of Layered (LYR), other than approximately 4 acres in the northeastern portion of Area 1 which has been targeted for a desired future condition of Older Forest Structure (OFS).

The goal of partial cutting within these stands is to quickly promote these stands to the designated desired future condition. In most cases a light thinning with the creation of some stand structure components will accomplish this goal. By removing the intermediate and some co-dominant trees within these stands individual tree growth will be maintained and more understory can develop as a result of increased light to the forest floor. This will allow for development of a more complex stand structure. Desired future conditions are anticipated to be reached within 40 to 50 years following harvest. Approximately 20 to 25 years following harvest, the stands may be re-entered for a light maintenance thinning to facilitate continuing understory development, stand complexity, and individual tree growth.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	23887	UDS	LYR	LYR	76
1	23887	UDS	LYR	OFS	4
2	23878	UDS	LYR	LYR	10

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

IV. PROPOSED MANAGEMENT PRESCRIPTION:

Areas 1 and 2 - will be automark thinned to a stand density between 30 – 40%. The result of these partial cut harvests should be increased growth to individual trees, and development of conifer and deciduous understory species as the more open tree canopy allows light to reach the forest floor. Minor species such as western red -cedar, will be reserved from cutting. Other minor species such as Pacific silver fir, noble fir, and spruce will be favored as leave trees to promote stand diversity. Large alder pockets and areas where conifer stocking is already low may be left unthinned.

Snags: During all harvesting activities, all existing snags will be retained unless deemed to be safety hazards. Where fewer than two hard snags per acre are found to exist during sale layout, opportunities for snag creation or leaving additional live green trees may be implemented to supplement landscape snag levels (FMP, “Landscape Management Strategy 3c. Snags”, pages 4-53 and 4-54).

Green Trees: A combination of methods will be implemented to achieve the green tree retention requirements such as green tree retention areas, stream buffers, and trees scattered across the sale areas (FMP, page 4-53, Paragraph 2). Minor species found may be reserved from cutting; further consideration of those species will be taken during sale layout.

Down Wood: For all harvesting activities, all existing down woody debris will be retained. Due to the existing down wood totals no additional down wood will be necessary in order to meet the landscape targets for down woody debris as prescribed in the FMP (FMP, “Landscape Management Strategy 3d. Down Wood.” pages 4-54 and 4-55).”

Site preparation will be accomplished through cable yarding, ground based harvesting and mechanical manipulation of slash concentrations. Aerial applied herbicide application may be prescribed for the sale area if competing vegetation poses a threat to stand establishment. This sale area will be replanted with Douglas-fir, western hemlock, and western red cedar at 300 trees per acre. Mountain beaver trapping is anticipated within the sale area. Animal damage through big game browse is expected to be very heavy. Douglas-fir will receive paper bud caps, cedar will receive tubes at initial planting.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%	<input type="checkbox"/>	X
Planned Quarter:		4 th Quarter	

	Conifer	Hardwood	Total
Net Volume (MBF)	640	0	640
Stumpage Value (\$/MBF)	\$125	\$325	
Estimated Gross Value	\$80,000	\$0	\$80,000
		Project Costs:	\$28,120
		Estimated Net Value:	\$51,880

VI. TRANSPORTATION PLANNING AND HARVESTING:

Access to the sale areas will be from State owned land to the south of the sale. The haul route will be from the sale areas on Ebsen Road and Hamilton Creek Road and out to Highway 202. Dirt spurs will be constructed in both sale areas. A 0.4 mile dirt spur is recommended to be constructed in the southern end of Area 1 to access shovel ground. This spur should be considered for log hauling in order to minimize compaction. A dirt spur off Ebsen Road will be needed to log Area 2. This may require a temporary crossing on a draw near Ebsen Road. The draw is dry in the summer. Area 2 will be all tractor logging, access will be from the bottom end of the sale area from an existing skid road. Some decking areas will need to be identified along Hamilton Creek Road. The dirt spurs will be water barred and blocked after completion of logging activities and be considered for use for future entries. Light road improvement will be conducted on Ebsen Road and Hamilton Creek Road. Seasonal logging restrictions will be implemented to minimize impact of roads, soils, and water turbidity of Hamilton Creek.

The sale will be predominately tractor logging with some cable logging in the northeast portion of Area 1.

Table 5. Transportation Planning Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.0	0.4
Improve	0.0	1.9	0.0	0.0
Maintain	0.0	2.0	0.0	0.0
Close/Block	0.0	0.0	0.0	0.4
Vacate	0.0	0.0	0.0	0.0

VII. AQUATIC RESOURCES AND WATER QUALITY:

Type F and Domestic Use Streams: There is one Type F stream associated with the harvest activities. Hamilton Creek is adjacent to the western boundary of Areas 1 and 2. Hamilton Creek contains Oregon Coast Coho, a federally listed fish. Hamilton Creek Road runs between the sale areas and Hamilton Creek. The stream distance from the sale area boundaries varies from 75 feet to 350 feet.

Aquatic Resource Protection: For all areas, full log suspension is required when cable yarding over streams. No ground-based logging equipment operation is allowed within the stream bank zone. One stream crossing may be anticipated during yarding activities in Area 1. 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. Culvert installment and replacement in live streams will be conducted between July 1 and Aug. 31. Operations outside of this period will be reviewed with ODFW. If any additional in-stream work is done with this sale, it will all be conducted during in-stream work periods established by ODFW. Riparian management areas result in leave trees adjacent to the stream which protect stream temperature, provide nutrients, protect stream banks, and eventually provide wood to improve fish habitat.

Small Type N Streams just above the Type F/ N Boundary

Small type N streams can influence stream temperature of downstream fish-bearing streams. Sufficient trees will be retained within 500' of the confluence with type F streams to achieve 80% shade over streams.

Type N Streams: There are small perennial Type N streams within all sale areas. A 25' no-harvest buffer will be established along the small type N streams.

Seasonal Small Type N Streams: Equipment will be excluded from the stream bank zone (within 25' of the channel) to maintain the integrity of the stream channel.

All streams will be examined to determine stream type and classification during sale layout, and then the specific riparian management area strategies required in the FMP will be implemented. The FMP riparian management area strategies that will be implemented are found in the FMP, Appendix J, "Management Standards for Aquatic and Riparian Areas", pages J-1 through J-16.

VIII. T&E SPECIES CONSIDERATIONS:

The Northwest Area Biologist determined on January 29, 2008 that there isn't any potential owl habitat within these sale areas and that Northern Spotted Owl surveys were not needed.

The sale is within the Jewell Northern Spotted Owl Cluster. The Area Biologist has been consulted & believes the sale areas and prescription are consistent with the cluster management guidelines.

Potential habitat between the sale areas was surveyed to protocol for marbled murrelets in 2002, 2003, and 2004 with no detections. STATE will continue surveys using the same stations as the 2002 – 2004 surveys. 2008 surveys conducted yielded no detections.

The sale area was checked against district knowledge for any listed plant location. The sale area was also checked against the Oregon Natural Heritage

Program (OHNP) database of known listed plant locations. No listed plant records were identified within the sale area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based off of USGS 1:24,000 topographic maps and available geologic maps. There are no high landslide hazard locations in the sale area. The sale area drains to Hamilton Creek. The risk of landslides delivering directly to Hamilton Creek from the sale area is low. The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

X. RECREATION RESOURCES:

Both units close to proposed Hamilton Creek Group Camp Areas. Coordination between the unit forester and the district recreation coordinator will be important when laying out the timber sale to protect the structures and minimize user conflicts.

XI. CULTURAL RESOURCES:

No known cultural resources are within or adjacent to the operation.

XII. SCENIC RESOURCES:

The sale areas are visible from Hwy 202. The southern portion of Area 1 is within 300 feet of Hwy 202. Since it is a thinning operation, little visual impact is anticipated.

XIII. OTHER RESOURCE CONSIDERATIONS:

No private property lines are within the sale areas. No land surveying will be needed.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Thirteen acres of Area 1 are designated as focused stewardship for visual management. See Section XII, Scenic Resources, for the management guidelines to be utilized. All other acres in Areas 1 and 2 are classified as "general management."

Boundary lines depicted on Attachment C are approximate; exact locations and site specific management activities will be determined during the sale preparation process. (This portion only to be included if LMCS classifications are actually depicted on Exhibit C.)

FY 2010

Happy Gillmore

Portions of Sections 32 and 33
of T6N, R7W, W.M., Clatsop County, OR

Approximate Net Acreage:
Area 1 (PC) 80 Acres
Area 2 (PC) 10 Acres
Total Sale Acreage = 90 Acres

1,000 500 0 1,000 Feet

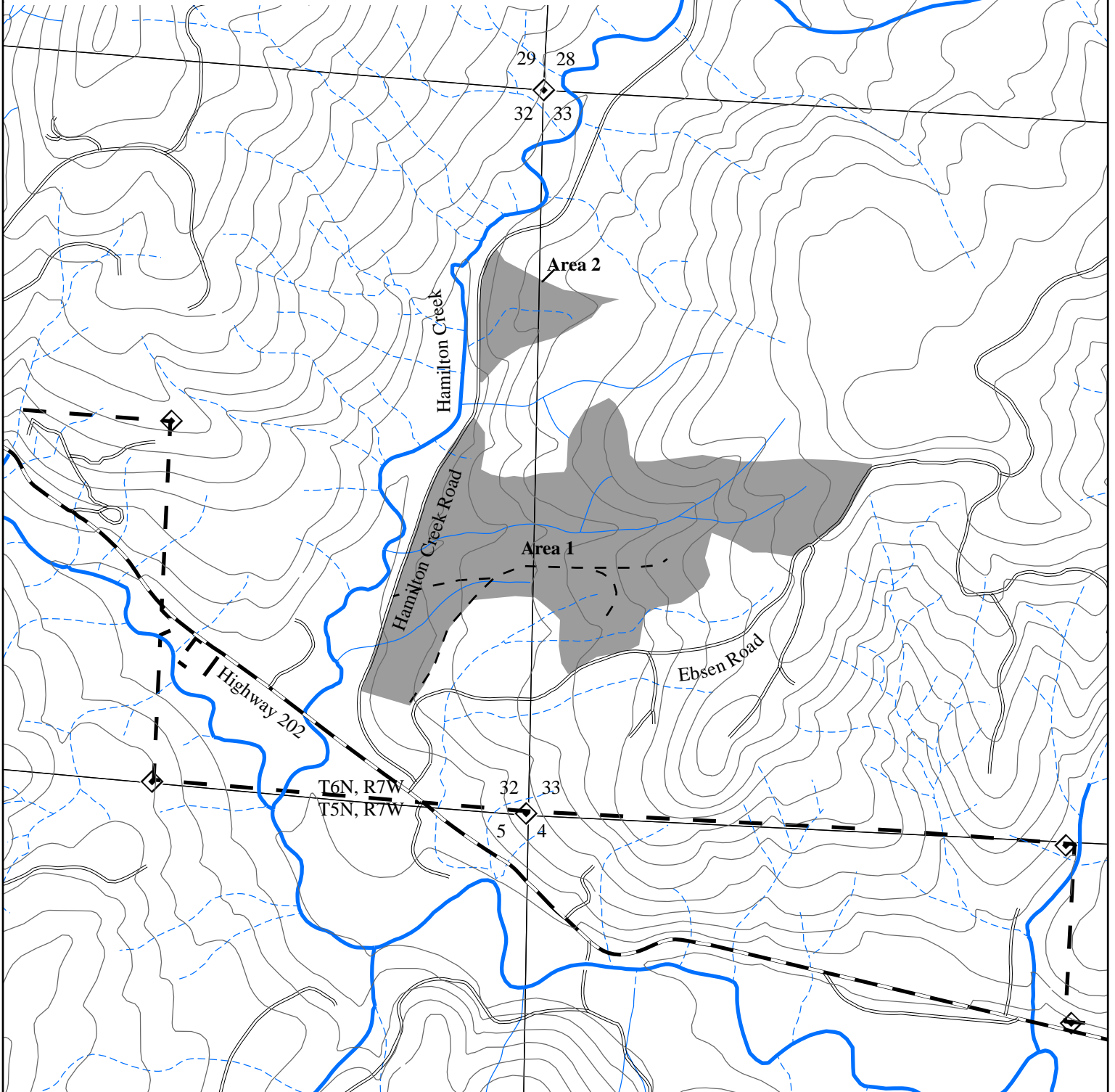
Approximate Scale 1=12,000

Map A - Topography



Legend

- 40' Contour
- Paved Road
- Existing Surfaced Road
- New Road Construction
- Fish Stream
- Nonfish Stream
- Unknown Stream
- Ownership Boundary
- Known Survey Corners
- Sale Area



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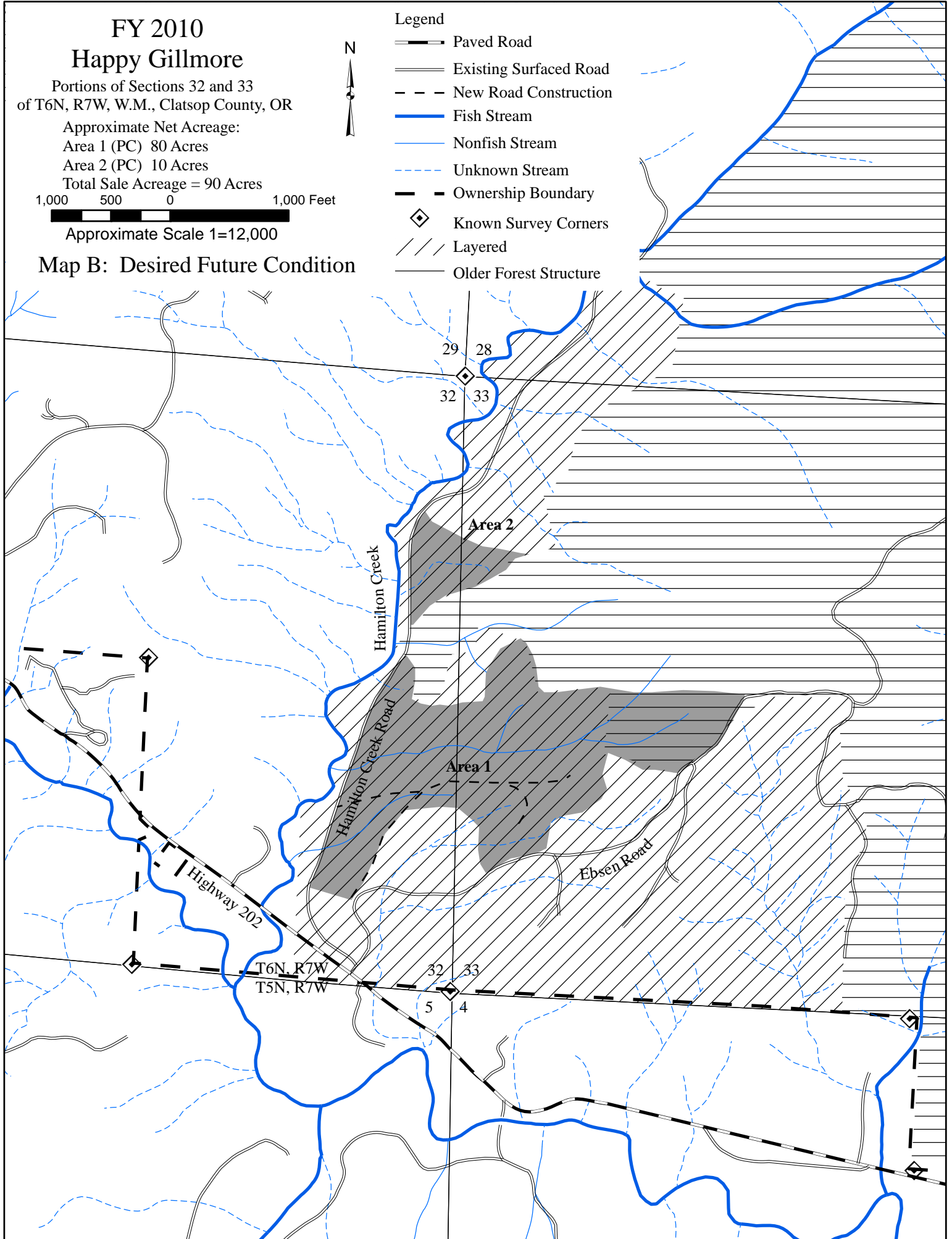


Approximate Scale 1=12,000

Map B: Desired Future Condition

Legend

- Paved Road
- Existing Surfaced Road
- New Road Construction
- Fish Stream
- Nonfish Stream
- Unknown Stream
- Ownership Boundary
- Known Survey Corners
- Layered
- Older Forest Structure



FY 2010 Happy Gillmore

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Total Sale Acreage = 90 Acres

0 250 500 1,000
Feet

Approximate Scale 1=12,000

Map C: Key Resources

Legend

-  Paved Road
-  Existing Surfaced Road
-  Fish Stream
-  Nonfish Stream
-  Unknown Stream
-  Ownership Boundary
-  Known Survey Corners
-  Owl Cluster
-  Visual
-  Sale Area

