

## *STATE FOREST LAND* **SEPA ENVIRONMENTAL CHECKLIST**

### ***Purpose of checklist:***

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

### ***Instructions for applicants:***

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use “not applicable” or “does not apply” only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

*Questions in italics are supplemental to Ecology’s standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at <http://www.dnr.wa.gov/sepa>. These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.*

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

### ***Instructions for Lead Agencies:***

Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

### ***Use of checklist for nonproject proposals:***

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

**A. BACKGROUND**

1. Name of proposed project, if applicable:

*Timber Sale Name:* **FLUTTERBY**  
*Agreement #* **30-099655**

2. Name of applicant: **Washington Department of Natural Resources**

3. Address and phone number of applicant and contact person:

**Olympic Region**                      **Contact Person: Graywolf Nattinger**  
**411 Tillicum Lane**                      **Phone Number: (360) 374-2800**  
**Forks, WA 98331**

4. Date checklist prepared: **01/22/2020**

5. Agency requesting checklist: **Washington Department of Natural Resources**

6. Proposed timing or schedule (including phasing, if applicable):

a. *Auction Date:*

**08/31/2020**

b. *Planned contract end date (but may be extended):*

**12/31/2022**

c. *Phasing:*

**None**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

*No, go to question 8.*

*Yes, identify any plans under A-7-a through A-7-d:*

*a. Site Preparation:* **Assessment for treatment will occur after completion of harvest. Site preparation including chemical herbicide application may be used to ensure that planting is successful at acceptable levels to meet or exceed Forest Practice standards. Burning of slash piles within Taylor Checkerspot butterfly (TCB) habitat and habitat buffers shall occur during the winter following completion of harvest.**

*b. Regeneration Method:* **Units 1, 2, 4 and 5 will be hand planted with native conifer species following harvest. Unit 3 will be 60% hand planted with native conifer species and 40% with native flower and shrub species seed for the enhancement of designated (TCB). Unit 6 will be 90% hand planted with native conifer species and 10% with native flower and shrub species for the enhancement of (TCB) habitat.**

*c. Vegetation Management:* **A continued assessment of the units will be required to determine future vegetation management strategy. Treatments will be based on vegetative competition and**

will ensure a free-to-grow status that complies with Forest Practice standards. Invasive species within designated (TCB) habitat will be evaluated and spot treated annually.

*d. Other: Biomass not removed during harvest will be piled near roads and landings. After the project is complete, any remaining piles may be burned or sold. Road maintenance assessments will be conducted and may include periodic ditch and culvert cleanout, and grading as necessary.*

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. *Note: All documents are available upon request at the DNR Region Office.*

303 (d) – listed water body in WAU:

temp

sediment

completed TMDL (total maximum daily load)

Landscape plan:

Watershed analysis:

Interdisciplinary team (ID Team) report:

Road design plan: **Flutterby Timber Sale Road Plan 02/26/2020**

Wildlife report:

Geotechnical report:

Appendix D. slope stability informational form: **Flutterby GeoMemo 04/17/2020**

Other specialist report(s):

Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):

Rock pit plan:

**Other: Water Type Modification Form (OL-19-19-0227, OL-19-19-0228, OL-19-19-0229, OL-19-20-0014), Draft Management Plan for Taylor's Checkerspot Butterfly sites on DNR-managed lands (Olympic Region), Flutterby Old Growth Assessment. Habitat Conservation Plan (September 1997), Forestry Handbook (August 1999), Sustainable Harvest Calculation (Sept 2004), Spotted Owl Habitat Mapping, Forest Practices Board Manual, WAU Map for Rain-On-Snow areas, Policy for Sustainable Forests (PSF 2006), HCP Checklist, Land Resource Manager (LRM) Special Concerns Report and associated maps, Road Maintenance and Abandonment Plan (RMAP). The following documents are all generated by Department GIS databases: Marbled Murrelet Adjacency Map, and NSO Best-70 Map, Water Type Modification forms.**

**Referenced documents may be obtained at the region office responsible for this proposal.**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

**None known.**

10. List any government approvals or permits that will be needed for your proposal, if known.

FPA # 2616500

FPHP

Board of Natural Resources Approval

Burning permit

Shoreline permit

Existing HPA

Other:

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

*a. Complete proposal description:*

**The Flutterby timber sale, agreement # 30-099655 and associated Forest Practice application number 2616500, is a 9-unit proposal located in the Salt Creek and Sutherland-Aldwell WAUs. It encompasses approximately 194 gross acres with an estimated sale volume of 3,281 mbf. This proposal consists of six variable retention harvest (VRH) units and three right-of-way (ROW) units. Within the proposal area, there are 27 acres of Riparian Management Zone (RMZ) and Wetland Management Zone (WMZ). There is one forested wetland that encompasses less than 1 acre. There are approximately 10 acres of Leave Tree Areas (LTA) and 2 acres of existing roads. The net harvest acreage is 146 acres. Approximately 6,365 feet of new road construction, 1,350 feet of reconstruction, 28,970 feet of pre-haul maintenance, and 2,715 feet of decommissioning are proposed to meet access needs into the sale area. The designated rock sources will be from Place Pit, Snake Pit, Bear Pit and commercial sources.**

<b>Unit</b>	<b>Gross Proposal (Acres)</b>	<b>Riparian Management Zones/Unstable Slope Protection (Acres)</b>	<b>Wetland Management Zones (Acres)</b>	<b>Existing Road (Acres)</b>	<b>Leave Tree Clump (Acres)</b>	<b>Net Harvest (Acres)</b>
1	6.9	1.1	0	0	0.2	5.6
2	19	1	3	0	1.3	10.7
3	43.9	0	0	1.4	3.3	40.6
4	37.4	8.2	0	1	2.3	26.9
5	31.2	13.2	0	0	1.4	16.6
6	49.6	6	0	0.5	1.7	39.1
7	1.7	0	0	0	0	1.7
8	3.2	0	0	0	0	3.2
9	1.2	0	0	0	0	1.2
<b>Totals</b>	<b>194.1</b>	<b>29.5</b>	<b>3</b>	<b>2.9</b>	<b>10.2</b>	<b>145.6</b>

b. Describe the stand of timber pre-harvest (include major timber species and origin date), type of harvest and overall unit objectives.

***Pre-harvest Stand Description:***

<b>Unit</b>	<b>Origin Date</b>	<b>Major Timber Species</b>	<b>MBF/acre</b>	<b>Slope (%)</b>	<b>Elevation Range (ft)</b>
<b>1</b>	<b>1895</b>	<b>Douglas fir, western hemlock</b>	26.2	80	560-760
<b>2</b>	<b>1895</b>	<b>Douglas fir, western hemlock</b>	26.1	85	640-980
<b>3</b>	<b>1981</b>	<b>Douglas fir, western hemlock</b>	12.9	80	800-1360
<b>4</b>	<b>1976</b>	<b>Douglas fir, western hemlock</b>	25.1	65	1360-1880
<b>5</b>	<b>1903</b>	<b>Douglas fir, western hemlock</b>	42.7	65	1200-1760
<b>6</b>	<b>1923</b>	<b>Douglas fir, western hemlock</b>	21.2	80	1380-1800
<b>7</b>	<b>1992</b>	<b>Douglas fir, western hemlock</b>	18	30	850-980
<b>8</b>	<b>1981</b>	<b>Douglas fir, western hemlock</b>	18	80	1200-1250
<b>9</b>	<b>1980</b>	<b>Douglas fir, western hemlock</b>	18	30	1720-1770

<b>Unit</b>	<b>Harvest Type (VDT/VRH/etc)</b>	<b>Volume to be Harvested (mbf)</b>	<b>Volume to be Harvested (%)</b>	<b>Individual Leave Trees</b>	<b>Clumped Leave Trees</b>	<b>Total Leave Trees</b>
<b>1</b>	Final Harvest	147	95	5	55	60
<b>2</b>	Final Harvest	290	95	8	88	96
<b>3</b>	Final Harvest	524	95	24	304	328
<b>4</b>	Final Harvest	676	95	10	244	254
<b>5</b>	Final Harvest	708	95	25	111	136
<b>6</b>	Final Harvest	829	95	52	285	337
<b>7</b>	Right-of-Way	36	100	0	0	0
<b>8</b>	Right-of-Way	54	100	0	0	0
<b>9</b>	Right-of-Way	18	100	0	0	0

***Overall Unit Objectives:***

The overall objectives for this sale includes the production of saw logs and pulp material to generate revenue for trusts while expediting the development of a more diverse multi-storied canopy layer in the future stand. This will be accomplished through the leave tree retention strategy and riparian management zones. These stands will be managed to protect site productivity and maintain the integrity and water quality of adjacent streams.

Ecological- Promote diverse forest structure across the landscape while preserving/enhancing ecological integrity and function. Enhance areas of known (TCB) habitat and provide temporary habitat value to adjacent areas.

Economic- Generate revenue for the State trust beneficiaries.

Statute- Comply with the DNR's HCP, the Policy for Sustainable Forests, and Forest Practice Rules and Regulations.

Social- Accommodate dispersed informal recreational activities on DNR managed lands and identify and protect historical and archaeological sites consistent with state/federal law.

c. Describe planned road activity. Include information on any rock pits that will be used in this proposal. See associated forest practice application (FPA) for maps and more details.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Decommission		2,715	1	0
Pre-haul Maintenance		28,970	13	0
Construction		6,365	3	0
Reconstruction		1,350		0
Abandonment				0
Bridge Install/Replace				0
Stream Culvert Install/Replace (fish)	0			0
Stream Culvert Install/Replace (no fish)	0			
Cross-Drain Install/Replace	22			

**Designated rock sources are Snake Pit, Bear Pit, Place Pit and commercial rock sources.**

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” as referenced on the DNR website: <http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

a. Legal description: **T30-0N R7-0W S18, T30-0N R7-0W S17, T30-0N R7-0W S08, T30-0N R7-0W S07, T31-0N R7-0W S33**

b. Distance and direction from nearest town (see the driving map listed on the DNR website for further information):

**Port Angeles is located 11 miles east of proposal.**

13. Cumulative Effects

a. Briefly describe any known environmental concerns that exist regarding elements of the environment in the associated WAU(s). (See WAC 197-11-444 for what is considered an element of the environment).

**The Salt Creek WAU ownership is comprised of family forests, industrial private forests, federal government as well as the DNR. Forests are generally 2<sup>nd</sup> and 3<sup>rd</sup> growth stands with some 1<sup>st</sup>**

**growth on federal land. The number of forest practice activities shown on the WAU maps along with observations within the WAUs indicate that the area is intensively managed for timber.**

*b. Briefly describe existing plans and programs (i.e. the HCP, DNR landscape plans, retention tree plans) and current forest practice rules that provide/require mitigation to protect against potential impacts to environmental concerns listed in question A-13-a.*

**This proposal and all future management activities on DNR lands will be conducted in accordance with the DNR's Habitat Conservation Plan (HCP, 1997), the Policy for Sustainable Forests (2006), and Forest Practice Rules. The HCP is an agreement with the federal government that requires the DNR to manage the landscapes with the intent to preserve and enhance habitat. In accordance with its terms, the following applicable strategies are found to provide a conservation benefit for multiple species:**

- Deferring harvest from unstable slopes.**
- Typing and protection of waters and wetlands in accordance with the HCP procedures. Equipment limitation zones are required on all streams.**
- Retaining a minimum of 8 leave tree per acre dispersed and clumped throughout VRH units.**
- Designing, constructing, and maintaining a road system to minimize potential adverse effects on the environment.**
- Implementing procedures pertaining to threatened and endangered species.**

**In concert, the HCP strategies for Northern Spotted Owl, Marbled Murrelet, and riparian conservation will contribute to the retention and development of older forests, while the leave tree procedure will enhance the structural diversity of forests across the landscape. In addition, road construction and maintenance standards will improve the quality of the existing road network and reduce impacts on the environment. The Draft Management Plan for Taylor's Checkerspot Butterfly sites on DNR-managed lands, Olympic Region will guide the implementation of (TCB) habitat enhancement objectives for this sale.**

*c. Briefly describe any specific mitigation measures proposed, in addition to the mitigation provided by plans and programs listed under question A-13-b.*

**All mitigation measures are clearly outlined in the HCP. Additional mitigation measures for this proposal are outlined within the Draft Management Plan for Taylor's Checkerspot Butterfly sites on DNR-managed lands, Olympic Region.**

*d. Based on the answers in questions A-13-a through A-13-c, is it likely potential impacts from this proposal could contribute to any environmental concerns listed in question A-13-a?*

**No.**

e. Complete the table below with the reasonably foreseeable future activities within the associated WAU(s) (add more lines as needed). Future is defined as occurring within the next 7 years.

WAU Name	Total WAU Acres	DNR-owned WAU Acres	Acres of DNR proposed even-aged harvest in the future	Acres of DNR proposed uneven-aged harvest in the future	Acres of proposed harvest on non-DNR-managed lands currently under active FP permits
SALT CREEK	70619	12498	847	946	589
SUTHERLAND-ALDWELL	56697	7559	650	136	184

Other management activities, such as stand and road maintenance, will likely occur within the associated WAU(s).

**B. ENVIRONMENTAL ELEMENTS**

**1. Earth**

a. General description of the site (check one):

- Flat,  Rolling,  Hilly,  Steep Slopes,  Mountainous,  Other:

1. General description of the associated WAU(s) or sub-basin(s) within the proposal (landforms, climate, elevations, and forest vegetation zone).

WAU: SALT CREEK  
 WAU Acres: 70619  
 Elevation Range: 0 - 2513 ft.  
 Mean Elevation: 255 ft.  
 Average Precipitation: 42 in./year  
 Primary Forest Vegetation Zone: Western Hemlock

WAU: SUTHERLAND-ALDWELL  
 WAU Acres: 56697  
 Elevation Range: 0 - 6432 ft.  
 Mean Elevation: 1777 ft.  
 Average Precipitation: 47 in./year  
 Primary Forest Vegetation Zone: Western Hemlock

2. Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).

**This proposal is a representative example of the WAUs at the same elevation and aspect.**

- b. What is the steepest slope on the site (approximate percent slope)?  
**100%**
- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

*Note: The following table is created from state soil survey data. It is an overview of general soils information for the soils found in the entire sale area. The actual soil conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors.*

State Soil Survey #	Soil Texture
8047	V.GRAVELLY SANDY LOAM
8049	V.GRAVELLY SANDY LOAM

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No, go to question B-1-e.

Yes, briefly describe potentially unstable slopes or landforms in or around the area of the proposal site. For further information, see question A-8 for related slope stability documents and question A-10 for the FPA number(s) associated with this proposal.

**Unstable slopes associated with steep slopes and incised drainages.**

- 1) Does the proposal include any management activities proposed on potentially unstable slopes or landforms?

No  Yes, describe the proposed activities:

- 2) Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.

**All areas with moderate or high risk of slope failure and delivery to a public resource have been excluded from harvest.**

- e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

*Approx. acreage new roads:* **3**

*Approx. acreage new landings:* **0.1**

*Fill Source:* **Snake Pit, Bear Pit, Place Pit or commercial source**

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.  
**Yes. Some erosion could occur as a result of building new roads, installing culverts, and hauling timber.**

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*

**Approximately 1% of the site will remain as gravel roads.**

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: *(Include protection measures for minimizing compaction or rutting.)*

**Harvesting and road construction will be restricted during periods of heavy rainfall when rutting and surface erosion may occur. Roads will be constructed with properly located ditches, ditch-outs and cross-drains to divert water onto stable forest floor and/or into stable natural drainages. Ground based operations will be suspended during periods of wet weather or wet soil conditions when rutting of skid or shovel roads begins.**

## 2. Air

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

**Minor amounts of engine exhaust from logging and road construction equipment and dust from vehicle traffic on roads will be emitted during proposed activities. If landing debris is burned after harvest is completed, smoke will be generated. There will be no emissions once the proposal is complete.**

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

**None known.**

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

**Logging debris will be burned in accordance with Washington State's Smoke Management Plan. A burn permit will be obtained before burning occurs.**

## 3. Water

- a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. *(See "WAU Map(s)" and "Timber Harvest Unit Adjacency Map(s)" as referenced on the DNR website: <http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic "Current SEPA Project Actions - Timber Sales." Proposal documents also available for review at the DNR Region Office.)*

No  Yes, describe in 3-a-1-a through 3-a-1-c below

**a. Downstream water bodies: Streams in proximity to the sale are Coville Creek and Indian Creek including their unnamed tributaries, all of which drain to the**

**Strait of Juan de Fuca.**

*b. Complete the following riparian & wetland management zone table:*

<b>Wetland, Stream, Lake, Pond, or Saltwater Name (if any)</b>	<b>Water Type</b>	<b>Number (how many?)</b>	<b>Avg RMZ/WMZ Width in feet (per side for streams)</b>
<b>Wetland</b>	<b>Forested</b>	<b>1</b>	<b>170</b>
<b>Stream</b>	<b>3</b>	<b>1</b>	<b>170</b>
<b>Stream</b>	<b>4</b>	<b>8</b>	<b>100</b>
<b>Stream</b>	<b>5</b>	<b>9</b>	<b>0</b>

*c. List any additional RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures and wind buffers.*

**There a wetland associated with a fish stream. It is protected with a 170' buffer.**

**There is 1 Type-3 stream associated with this proposal. It is protected with a 170' site index buffer based on the Douglas-fir site potential height at age 100.**

**There are 8 Type-4 streams associated with this proposal. They are protected with 100' buffers.**

**There are 9 Type-5 streams associated with this proposal. They are protected with leave tree areas or are removed from the harvest area with timber sale boundary tags.**

**There is 30' equipment limitation zones (ELZ) protecting all streams associated with this sale.**

**The work detailed in the road plan has been designed to improve surfacing on the haul roads, and provide for better drainage by installing additional culverts, and replacing culverts that will divert storm water onto stable forest floor. These actions will minimize the potential for delivery of sediment to streams. Soils exposed during road construction and re-construction activities will be protected from erosion by grass seeding, mulching with hay, and seasonal restrictions.**

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No

Yes (See RMZ/WMZ table above and timber sale maps which are available on the DNR website: <http://www.dnr.wa.gov/sepa>. Timber sale maps are also available at the DNR region office.)

*Description (include culverts):* **Timber felling, bucking, yarding, and/or road maintenance and construction will occur within 200 feet of all the described waters above. All activities will be done in accordance with the DNR's HCP and Forest Practice rules. Timber harvest will occur within 200' of typed waters, but no closer than described above in questions B.3.a.1.b and B.3.a.1.c. Culvert work listed in A.11.C will occur within 200 feet of the described waters above. See timber sale**

**maps and FP application with accompanying maps for more details.**

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

**None.**

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (*Include diversions for fish-passage culvert installation.*)

*No*             *Yes, description:*

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

*No*             *Yes, describe activity and location:*

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

**No**

- 7) *Is there a potential for eroded material to enter surface water as a result of the proposal considering the protection measures incorporated into the proposal's design?*

*No*             *Yes, describe:*

**Soils and terrain susceptible to surface erosion are generally located on slopes steeper than 70%. The potential for eroded material to enter surface water is minimized due to the erosion control measures and operational procedures outlined in B-1-h.**

- 8) *What are the approximate road miles per square mile in the associated WAU(s)?*

**SALT CREEK = 2.1 (mi./sq. mi.), SUTHERLAND-ALDWELL = 2.0 (mi./sq. mi.)**

- 9) *Are there forest roads or ditches within the associated WAU(s) that deliver surface water to streams, rather than back to the forest floor?*

*No*             *Yes, describe:*

**It is likely some roads or road ditches within the WAU intercept sub-surface flow and deliver surface water to streams, however current road construction, reconstruction, and/or maintenance standards will be applied that address this issue by installing cross-drains to deliver ditch water to stable forest floors.**

- 10) *Is there evidence of changes to channels associated with peak flows in the proposal area (accelerated aggradations, surface erosion, mass wasting, decrease in large organic debris (LOD), change in channel dimensions)?*

No             Yes, describe observations:

**Areas within the proposal show evidence of changes to stream channels. Channels in unit 1 were deeply incised in some areas. This is potentially a result of previous logging activity in the area.**

11) Describe any anticipated contributions to peak flows resulting from this proposal's activities which could impact areas downstream or downslope of the proposal area. **It is not likely the proposed activity will change the timing, duration, or volume of water during a peak flow event. This proposal minimizes the extent of the road network, incorporates road drainage disconnected from stream networks, and implements wide riparian buffers which all have mitigating effects on the potential for this proposal to increase peak flows that could impact areas downstream or downslope of the proposal area.**

12) Is there a water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?

No             Yes, describe the water resource(s):

a. Is it likely a water resource or an area of slope instability listed in B-3-12 (above) will be affected by changes in amounts, quality or movements of surface water as a result of this proposal?

No             Yes, describe possible impacts:

13) Describe any protection measures, in addition to those required by other existing plans and programs (i.e. the HCP, DNR landscape plans) and current forest practice rules included in this proposal that mitigate potential negative effects on water quality and peak flow impacts.

**The sale design, including harvest system design and road construction considerations, should maintain natural flow patterns. Quality crushed surface rock will be applied to the live stream crossings, and best management practices will be employed as needed. This includes use of sediment traps, silt fencing, and seeding/mulching exposed soils. Skid trail abandonment will include fluffing of soil and organic material to facilitate infiltration, and installation of water bars to reduce overland flow.**

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

**No water will be withdrawn or discharged.**

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such

systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

**Minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the ground as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site. All spills are required to be contained and cleaned-up. This proposal is expected to have no impact on groundwater.**

3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?*

No             Yes, describe:

*a. Is it likely a water resource or an area of slope instability listed in B-3-b-3 (above) could be affected by changes in amounts, timing, or movements of groundwater as a result this proposal?*

No             Yes, describe possible impacts:

*Note protection measures, if any:*

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

**Water runoff, including storm water, from road surfaces will be collected by roadside ditches and diverted onto the forest floor via ditch-outs and cross drain culverts.**

2) Could waste materials enter ground or surface waters? If so, generally describe.

No             Yes, describe:

**Waste materials, such as sediment or slash, may enter surface water.**

*Note protection measures, if any:*

**No additional protection measures will be necessary to protect these resources beyond those described in B-1-d-2, B-1-h, B-3-a-2, and B-3-a-13.**

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

**No changes to drainage patterns are expected.**

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

**See surface water, groundwater and water runoff sections above, questions B-3-a-1-c, B-3-a-13, B-3-b-3, and B-3-c-2.**

#### 4. Plants

a. Check the types of vegetation found on the site:

Deciduous tree:

Alder  Aspen  Birch  Cottonwood  Maple  Western Larch

Other:

Evergreen tree:

Douglas-Fir  Engelmann Spruce  Grand Fir  Lodgepole Pine

Mountain Hemlock  Noble Fir  Pacific Silver Fir  Ponderosa Pine

Sitka Spruce  Western Hemlock  Western Redcedar  Yellow Cedar

Other:

Shrubs:

Huckleberry  Rhododendron  Salmonberry  Salal

Other:

Ferns

Grass

Pasture

Crop or Grain

Orchards  Vineyard  Other Permanent Crops

Wet Soil Plants:

Bullrush  Buttercup  Cattail  Devil's Club  Skunk Cabbage

Other:

Water plants:

Eelgrass  Milfoil  Water Lily

Other:

Other types of vegetation:

**Plant communities of concern: Festuca roemeri - Cerastium arvense - Koeleria macrantha Herbaceous Vegetation. The plant community is associated with Balds.**

b. What kind and amount of vegetation will be removed or altered? (Also see answers to questions A-11-a, A-11-b and B-3-a-2).

**Approximately 3,281 mbf of 37-125 year old mixed conifer timber and small proportion of hardwoods will be harvested with this proposal.**

*Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See "WAU Map(s)" and "Timber Harvest Unit Adjacency Map(s)" on the DNR website: <http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic "Current SEPA Project Actions - Timber Sales." Proposal documents also available for review at the DNR Region Office.)*

**Unit 1 and Unit 2 are bordered by developed residential to the north. To the south and east of these units is 39 year old State timber, and to the west is 28 year old State timber.**

**Unit 3 is bordered by 39 year old timber to the north and west. The south is bordered by developed residential. The east is bordered by North Pacific Herbaceous Bald and Bluff.**

**Unit 4 is bordered by riparian management zone to the north and east, 22 year old state timber to the south and 33 year old state timber to the west.**

**Unit 5 is bordered by 33 year old State timber to the south and riparian management zone to the north, west and east.**

**Unit 6 is bordered by 33-36 year old state timber to the north and east, 18-20 year old State timber to the west, and private timber land to the south.**

**Unit 7-9 (ROW) is surrounded by 28-39 year old state timber.**

- c. List threatened and endangered *plant* species known to be on or near the site.

TSU Number	Common Name	Federal Listing Status	State Listing Status
FLUTTERBY U3	yerba de selva	None	Threatened

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:  
**Native plant seed will be spread on burn pile footprints and other exposed soil within the (TCB) habitat area and habitat buffer. Logging slash will be removed from areas designated as “North Pacific Herbaceous Bald and Bluff” and area will be re-establish with native bald species.**
- e. List all noxious weeds and invasive species known to be on or near the site.  
**Scotch Broom, Spotted Knapweed, Canadian and Bull Thistle**

**5. Animals**

- a. List any birds and other animals *or unique habitats* which have been observed on or near the site or are known to be on or near the site. Examples include:
- birds:  
 eagle  hawk  heron  owls  songbirds  
 other:
- mammals:  
 bear  beaver  coyote  cougar  deer  elk  
 other:
- fish:  
 bass  herring  salmon  shellfish  trout  
 other:
- amphibians/reptiles:*  
 frog  lizard  salamander  snake  turtle  
 other:
- unique habitats:*

- balds*  *caves*  *cliffs*  *mineral springs*  *oak woodlands*  *talus slopes*  
 other:

b. List any threatened and endangered species known to be on or near the site (*include federal- and state-listed species*).

TSU Number	Common Name	Federal Listing Status	State Listing Status
FLUTTERBY U4	Northern Spotted Owl	Threatened	Endangered
FLUTTERBY U1	Marbled murrelet	Threatened	Endangered
FLUTTERBY U3, 4, 6	Taylor's Checkerspot	Endangered	Endangered

c. Is the site part of a migration route? If so, explain.

- Pacific flyway*  *Other migration route:*

**Explain: This site is a part of the Pacific Flyway but is not used extensively for resting or feeding by waterfowl.**

d. Proposed measures to preserve or enhance wildlife, if any:

*Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*

Species /Habitat: **Wetland and Riparian.** Protection Measures: **“No harvest” buffers have been applied to all type 3, 4, and unstable 5 waters and forested wetlands. Equipment limitation zones are on all typed waters, and wetlands, as described in B.3.a.1)b). Riparian buffers are designed to protect the unstable portions of the stream banks, and help to protect waters from siltation and increased temperature by providing shade and cover. Buffers also allow the natural occurrence of woody debris that provides pools and eddies for fish habitat along stream banks. Furthermore, these buffers will develop old-forest characteristics that, in combination with the owl and murrelet strategies, will help support old-forest dependent wildlife.**

Species /Habitat: **Upland** Protection Measures: **Harvest will not occur in areas with moderate or high risk of slope failure or delivery to a public resource. Wind-firm, dominant, and structurally unique trees were targeted for retention. A minimum of eight trees per acre were retained individually and in clumps to provide habitat structures for wildlife species within VRH units. Timber removal will temporarily create open environments that provide valuable foraging and potential habitat for a variety of wildlife species associated with early-stage forest environments. Areas within units 3 and 6 that are designated as (TCB) Habitat or habitat buffers will be managed for (TCB) use through a program of conifer suppression and seeding with food and nectaring plant species preferred by the (TCB).**

Species /Habitat: **Northern Spotted Owl** Protection Measures: **Harvest units fall within the Lake Aldwell status one owl circle, but no activities related to this proposal will occur within the “Best 70” area.**

Species /Habitat: **Marbled Murrelet** Protection Measures: **The proposal does not occur within marbled murrelet special habitat areas, occupied sites, or marbled murrelet habitat (P-stage) that has been designated for metering. Previously modeled long term forest cover (LTFC) is being updated as a result of field verification and no harvest will occur within verified LTFC. Road maintenance will occur within occupied site buffer. Timing restrictions will be enforced within the marbeled murrelet nesting season. Timber felling, road work or operation of heavy equipment will be performed in the limited operating period, which runs from two hours after sunrise to two hours before sunset, if work will occur during the nesting season (April 1 through September 23).**

Species /Habitat: **Taylor's Checkerspot Butterfly (TCB)** Protection Measures: **Harvest within designated and presumed habitat areas is being performed with guidance from and in cooperation with WDFW, USFWS, and WA DNR biology staff. All operations within TCB habitat will be for the enhancement of TCB habitat, will occur during periods of TCB diapause and are designed to minimize risks to the species. No heavy equipment use shall be authorized within balds or grassland with known butterfly use. Areas outside of designated habitat that possess high habitat potential have been excluded from harvest. Details of the TCB management plan are available in DNR's Management Plan for Taylor's Checkerspot Butterfly sites on DNR-managed lands, Olympic Region and are currently being updated in the forthcoming document: Taylor's Checkerspot Butterfly Habitat Conservation Strategy For Westside Planning Units Including the OESF". Additionally, DNR biology staff are preparing a memo detailing the consultations and mitigations involved in the planning of this habitat enhancement proposal.**

- e. List any invasive animal species known to be on or near the site.  
**None known**

## **6. Energy and natural resources**

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.  
**Petroleum fuel (diesel or gasoline) will be used for heavy equipment during active road building, timber harvest operations, and for transportation. No energy sources will be needed following project completion.**
- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.  
**No.**
- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:  
**None.**

## 7. Environmental health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

**No**

- 1) Describe any known or possible contamination at the site from present or past uses.  
**None known.**
- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.  
**None known.**
- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.  
**Petroleum-based fuel and lubricants may be used and stored on site during the operating life of this project.**
- 4) Describe special emergency services that might be required.  
**The Department of Natural Resources, private, and fire protection district suppression crews may be needed in case of wildfire. In the event of personal injuries, emergency medical services may be required. Hazardous material spills may require Department of Ecology and/or county assistance.**
- 5) Proposed measures to reduce or control environmental health hazards, if any:  
**No petroleum-based products will be disposed of on site. If a spill occurs, containment and cleanup will be required. Spill kits are required to be onsite during all heavy equipment operations. The cessation of operations may occur during periods of increased fire risk. Fire tools and equipment, including pump trucks and/or pump trailers, will be required on site during fire season.**

*NOTE: If contamination of the environment is suspected, the proponent must contact the Department of Ecology.*

### b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?  
**None.**
- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.  
**There will be short term, low level and high level noise created by the use of harvesting equipment and hauling operations within the proposal area. This type of noise has been historically present in this geographical area.**

3) Proposed measures to reduce or control noise impacts, if any:

**None.**

## 8. Land and shoreline use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. (*Site includes the complete proposal, e.g. rock pits and access roads.*)

**Current use of site and adjacent land types:**

**This proposal will not change the use of or affect the current/long term land use of areas associated with this sale.**

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

**This proposal site has been used as working forest lands. This proposal will retain the site in working forest lands.**

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

**No.**

c. Describe any structures on the site.

**None.**

d. Will any structures be demolished? If so, what?

**No.**

e. What is the current zoning classification of the site?

**Forest Management**

f. What is the current comprehensive plan designation of the site?

**Commercial Forest**

g. If applicable, what is the current shoreline master program designation of the site?

**Not applicable.**

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

**No.**

i. Approximately how many people would reside or work in the completed project?

**None.**

j. Approximately how many people would the completed project displace?

**None.**

- k. Proposed measures to avoid or reduce displacement impacts, if any:  
**Does not apply.**
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:  
**This project is consistent with current comprehensive plans and zoning classifications.**
- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:  
**None.**

**9. Housing**

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.  
**Does not apply.**
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.  
**Does not apply.**
- c. Proposed measures to reduce or control housing impacts, if any:  
**None.**

**10. Aesthetics**

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?  
**Does not apply.**
- b. What views in the immediate vicinity would be altered or obstructed?
  - 1) *Is this proposal visible from a residential area, town, city, recreation site, major transportation route or designated scenic corridor (e.g., county road, state or interstate highway, US route, river or Columbia Gorge SMA)?*  
 No       Yes, name of the location, transportation route or scenic corridor:  
**State Hwy 112 and US-101 corridors**
  - 2) *How will this proposal affect any views described above?*  
**Portions of timber harvest and road construction can be viewed from the highway.**
- c. Proposed measures to reduce or control aesthetic impacts, if any:  
**RMZs and leave trees will serve to provide residual structure and reduce the visual effect of forest harvest activities. The timber sale will be replanted with native species following harvest. Leave trees and RMZs will reduce visual effects of harvest activities and distribution of harvest units within the landscape will reduce the aesthetic impact of the view shed.**

## 11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?  
**None.**
- b. Could light or glare from the finished project be a safety hazard or interfere with views?  
**No.**
- c. What existing off-site sources of light or glare may affect your proposal?  
**None.**
- d. Proposed measures to reduce or control light and glare impacts, if any:  
**None.**

## 12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?  
**Informal hunting, gathering and mountain biking.**
- b. Would the proposed project displace any existing recreational uses? If so, describe.  
**There may be some disruptions to recreational use during periods of harvesting and hauling.**
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:  
**None**

## 13. Historic and cultural preservation

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.  
**No**
- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.  
**No**
- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.  
**A check of the Department of Archaeology and Historic Preservation (DAHP) database and Land Resource Manager (LRM) Special Concerns Report shows no known cultural resources on or near the site. A check of the cultural resources layer on the State Upland viewing tool shows no cultural resources on or near the site. During timber sale preparation, trained foresters found nothing on or near the site to indicate any potential cultural resource.**

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.  
**If a presently-unknown cultural resource is discovered during project operations, DNR will comply with the March 2010 Cultural Resources Inadvertent Discovery Guidance.**

#### 14. Transportation

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.  
**US-101, State Hwy 112, Dan Kelly Road, Gerber Road**
- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?  
**No. Nearest transit stop is approximately 1 mile away.**
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?  
**None.**
- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).  
**Yes, see A-11-c.**
- 1) *How does this proposal impact the overall transportation system/circulation in the surrounding area and any existing safety problem(s), if at all?*  
**This project will have minimal to no additional impacts on the overall transportation system in the area.**
- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.  
**No.**
- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?  
**Approximately 10 to 15 truck trips per day while the operation is active. Peak volumes would occur during the yarding and loading activities between 6:00 a.m. and 4:00 p.m. of the operating period. The completed project will generate less than one vehicular trip per day. Estimates are based on the observed harvest traffic of past projects.**
- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.  
**No.**

- h. Proposed measures to reduce or control transportation impacts, if any:  
**None.**

**15. Public services**

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.  
**No.**
- b. Proposed measures to reduce or control direct impacts on public services, if any.  
**None.**

**16. Utilities**

- a. Check utilities currently available at the site:  
 electricity     natural gas     water     refuse service     telephone     sanitary sewer  
 septic system     other:
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.  
**None.**

**C. SIGNATURE**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: 

Name of signee     Cody Pagel    

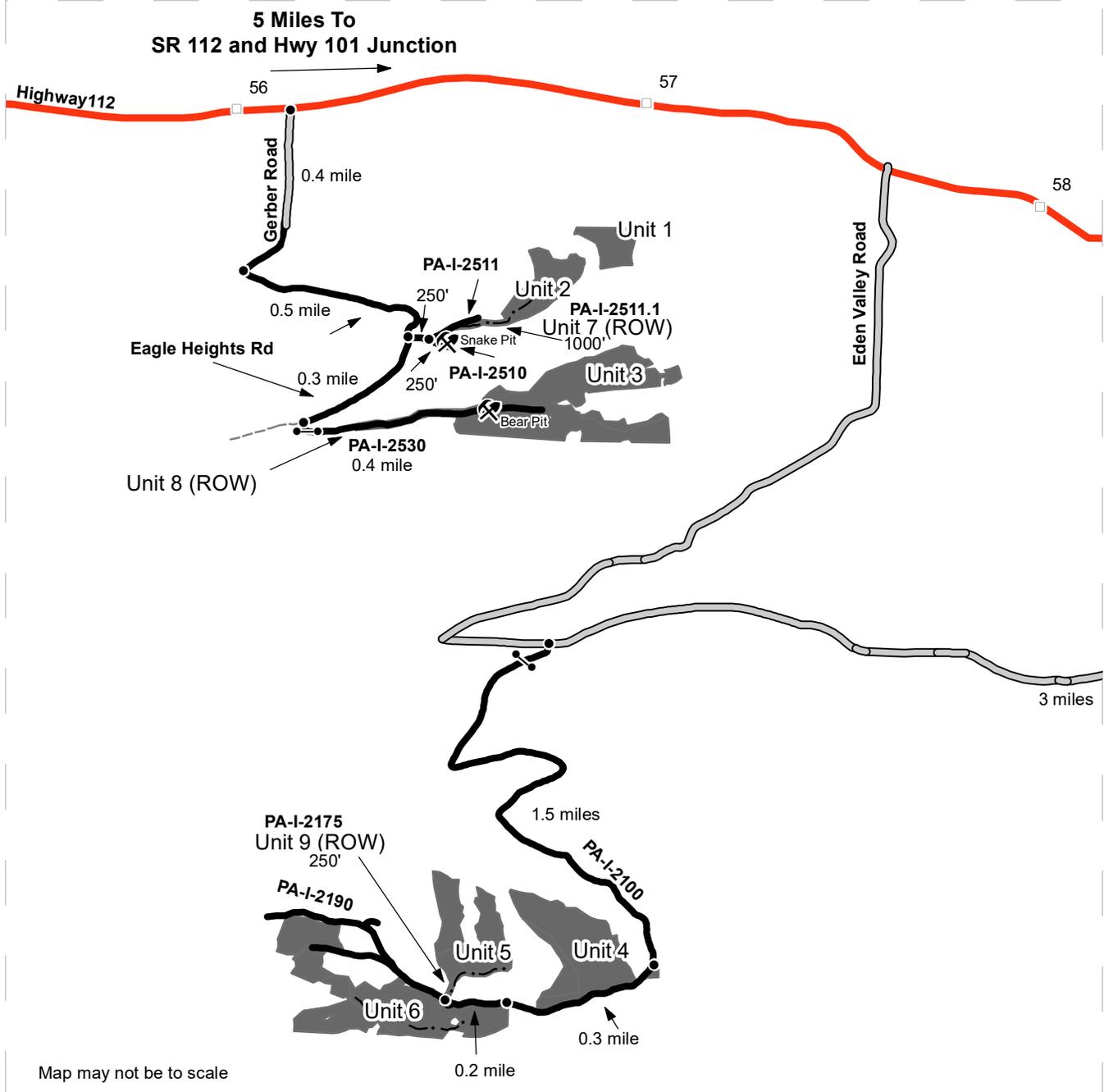
Position and Agency/Organization Unit Coordinator – WA DNR

Date Submitted: 6/4/2020

# DRIVING MAP

**SALE NAME:** FLUTTERBY  
**AGREEMENT#:** 30-099655  
**TOWNSHIP(S):** T30R7W  
**TRUST(S):** Common School and Indemnity (3), State Forest Transfer (1)

**REGION:** Olympic Region  
**COUNTY(S):** Clallam  
**ELEVATION RGE:** 600'-1880'



- Timber Sale Unit
- Haul Route
- View Only Route
- New Construction
- County Road
- Milepost Markers
- Distance Indicator
- Gate (AA1)
- ⛏ Rock Pit

**DRIVING DIRECTIONS:**

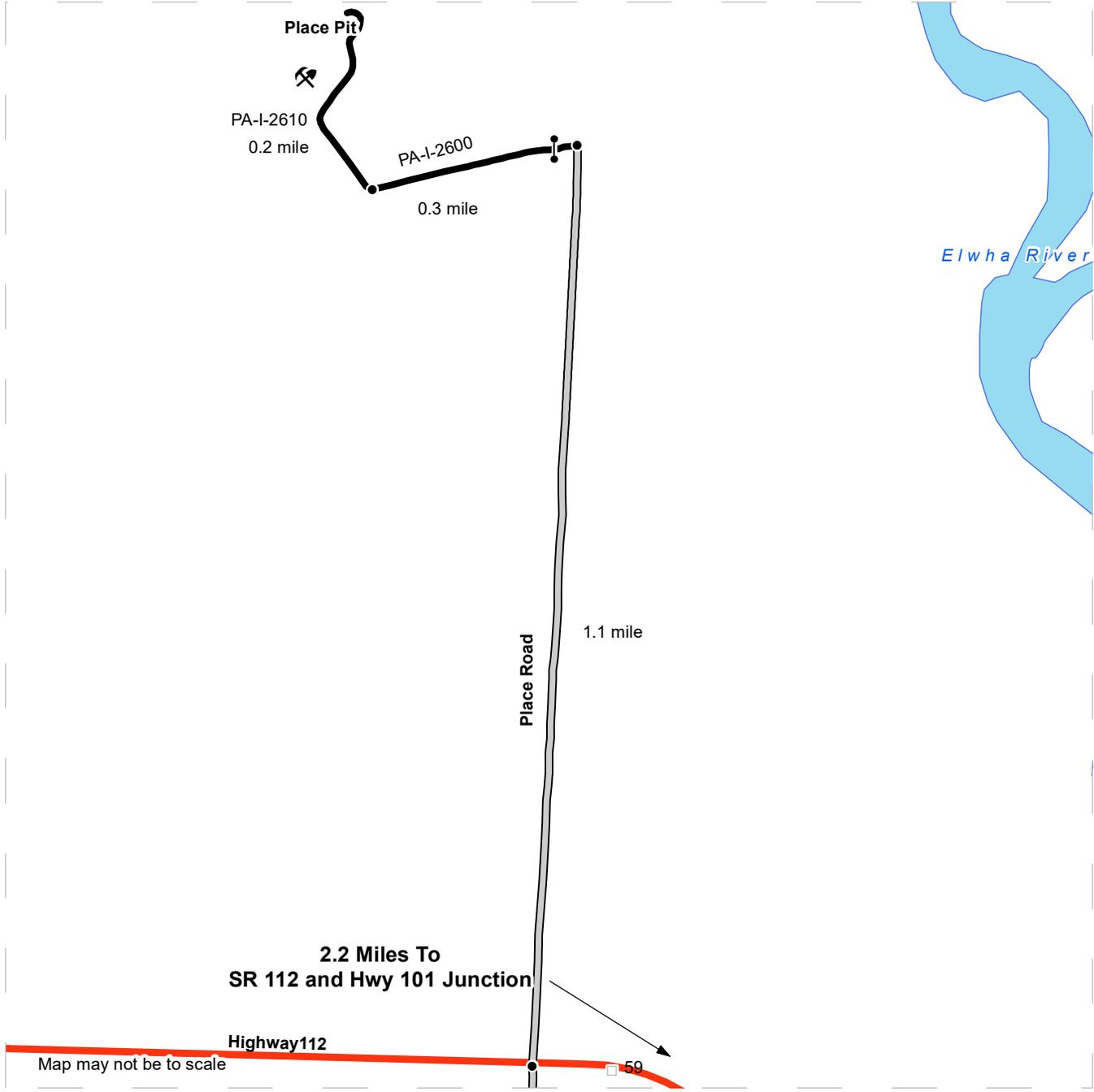
See Attached Driving Directions



# DRIVING MAP

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Map may not be to scale

-  Haul Route
-  County Road
-  Milepost Markers
-  Distance Indicator
-  Gate (AA1)
-  Rock Pit

**DRIVING DIRECTIONS:**  
  
 See Attached Driving Directions



## **FLUTTERBY DRIVING DIRECTIONS**

Unit 2: From Port Angeles, WA travel 4.5 miles west on Highway 101 and turn north onto Highway 112. Drive west on Highway 112 for 5 miles and turn left onto Gerber Road. Continue south on Gerber Road for 0.4 miles, which will turn into Eagle Heights Road. Continue 0.5 miles east/southeast on Eagle Heights and turn left onto the PA-I-2510. Go east on the PA-I-2510 for 250 feet. From here, follow orange flagging approximately 1,000 feet east/northeast to reach the beginning of Unit 2  
(follow orange flagging for the PA-I-2511/PA-2511.1 roads).

Unit 1: From the beginning of Unit 2, walk northeast for approximately 0.3 miles to reach the unit.

Unit 3: From the Eagle Heights/PA-I-2510 junction continue southwest on Eagle Heights for 0.3 miles and turn left onto the PA-I-2530. Continue east on the PA-I-2530, passing through AA1 farm gate, for 0.4 miles to reach the unit.

Unit 4: From the Highway 101/112 junction, head west on Highway 112 for 2 miles and turn left on the Dan Kelly Road. Continue southwest on the Dan Kelly road for 3 miles and turn left onto the PA-I-2100, AA1 gate. Continue south on the PA-I-2100 for 1.5 miles to reach the beginning of Unit 4.

Unit 6: From the beginning of Unit 4, go west on the PA-I-2100 for 0.3 miles to reach the unit.

Unit 5: From the beginning of Unit 6, go west on the PA-I-2100 for 0.2 miles, follow orange flagging north 250' to reach the unit.

Snake Pit: From the junction of PA-I-2510 and PA-I-2511 continue 250' east to reach the pit.

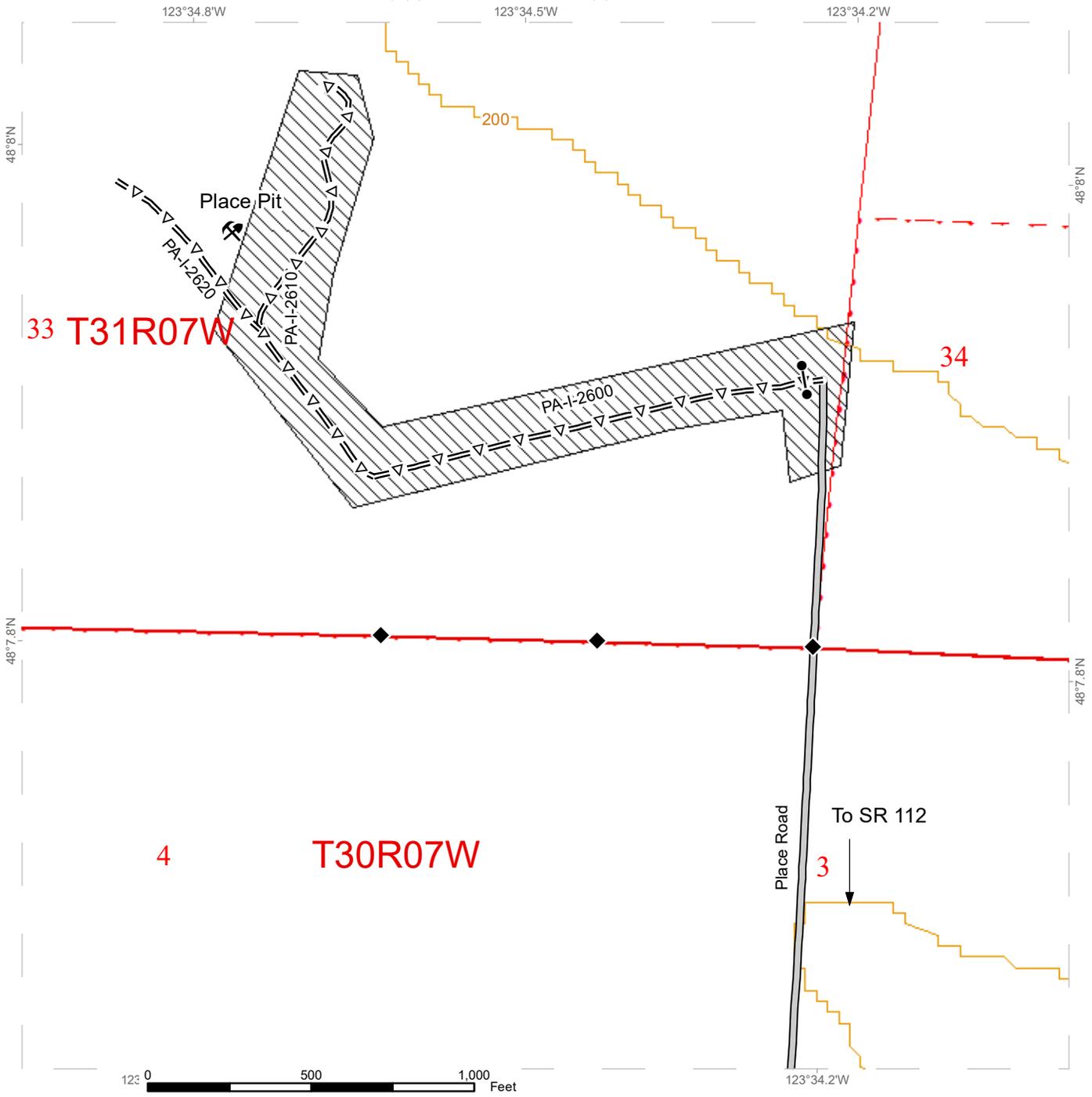
Bear Pit: From the beginning of Unit 3 continue 250' east to reach the pit.

Place Pit: Drive 4.5 miles west of Port Angeles to State Route 112. Turn northwest (right) and drive to MP 58.9. Turn north (right) onto Place Road and drive to MP 1.15. Turn west (left) onto the PA-I-2600, AA1 gate. Drive 0.5 miles to the pit.

# FOREST PRACTICE ACTIVITY MAP

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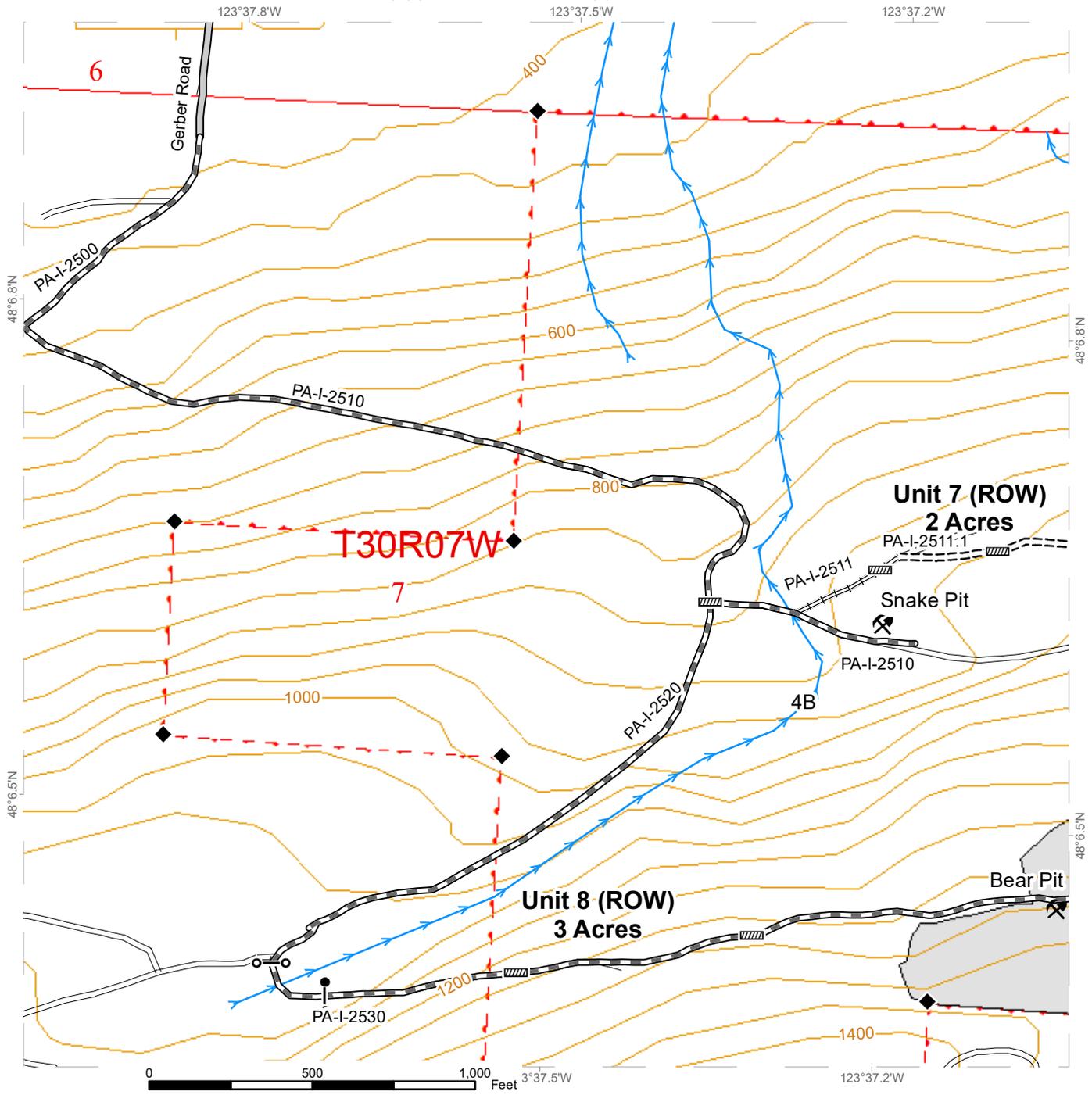
DNR Managed Lands	Optional Pre-Haul Maintenance	Survey Monument
Section Lines	Gate (AA1)	Rock Pit
Township/Range Lines		
Timing Restriction		
County Road		



# FOREST PRACTICE ACTIVITY MAP

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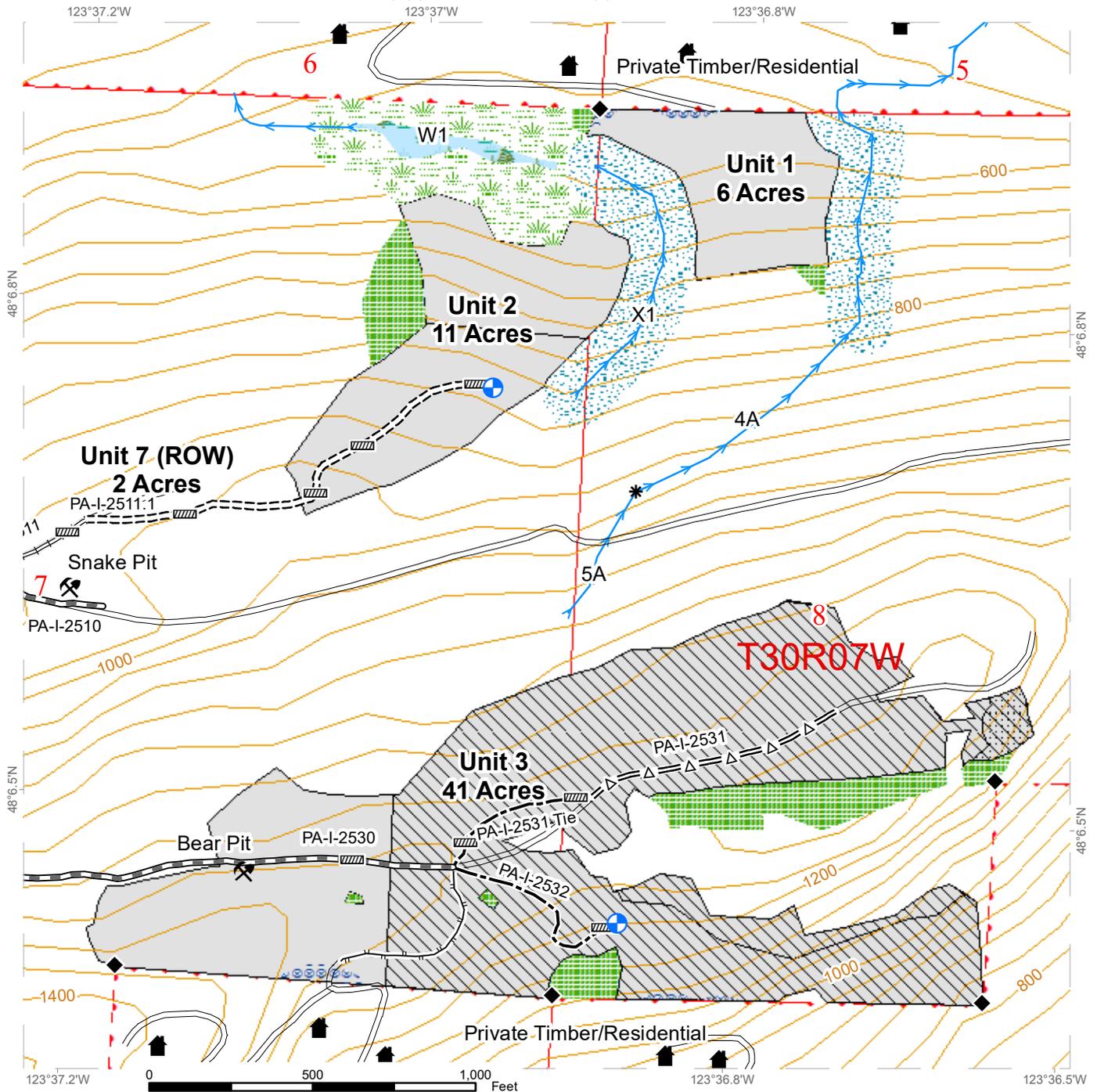
DNR Managed Lands	County Road	Survey Monument
Section Lines	Required Pre-Haul Maintenance	Culvert
Township/Range Lines	Required Construction	Gate (AA1)
Timber Sale Area	Required Reconstruction	Gate Installation
Existing Roads	Streams	Rock Pit
		4A Stream Identifier



# FOREST PRACTICE ACTIVITY MAP

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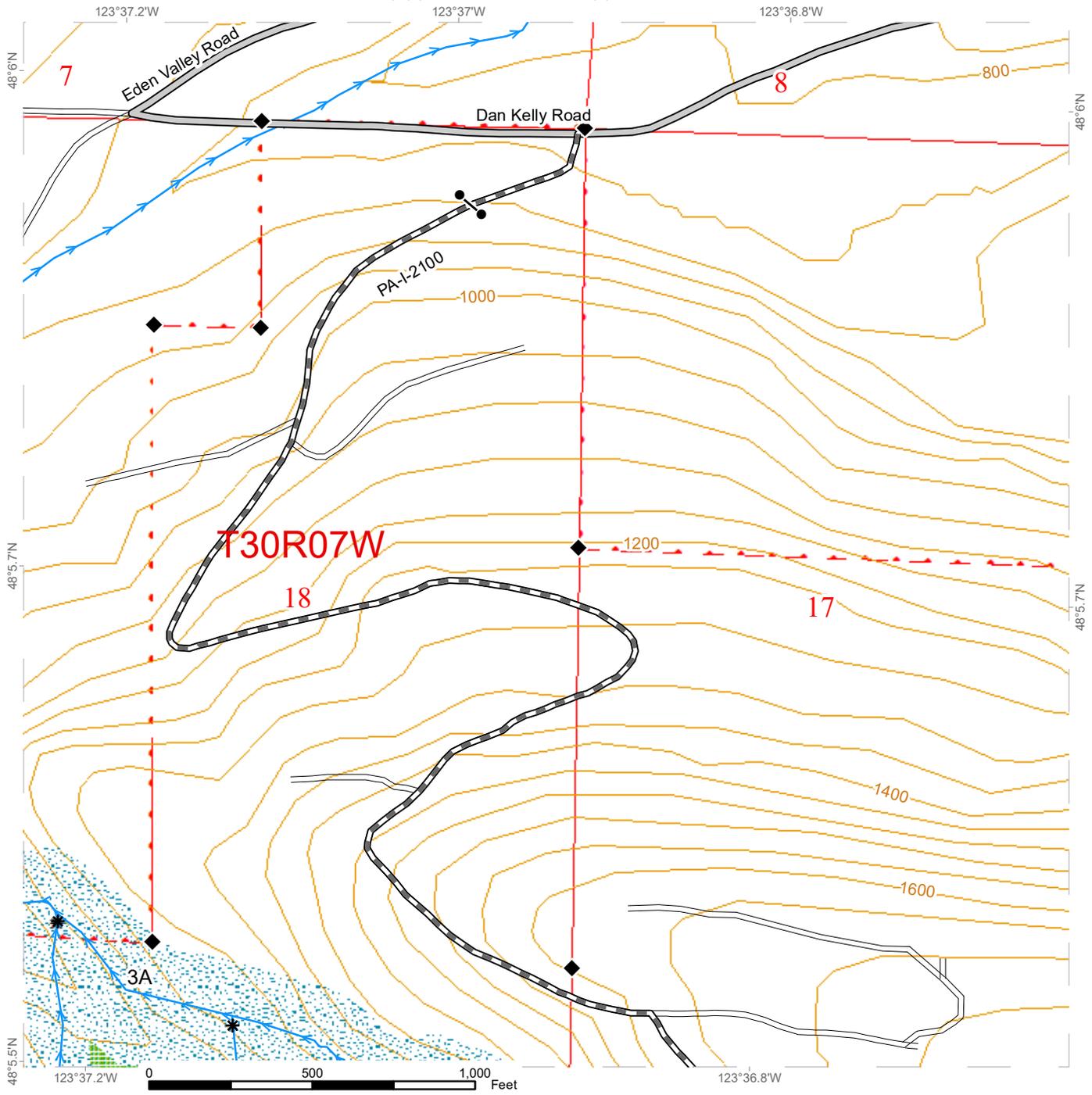
DNR Managed Lands	Leave Tree Area	Required Pre-Haul Maintenance	Stream Type Break
Section Lines	Riparian Management Zone	Required Construction	Survey Monument
Township/Range Lines	Forested Wetland	Required Reconstruction	Culvert
Timber Sale Area	Wetland Management Zone	Optional Pre-Haul Maintenance	Landing - Proposed
Remove Slash	Hazard Abatement Area	Optional Construction	Rock Pit
Timing Restriction	Existing Roads	Designated Skid Trail	Structure
		Streams	
		4A Stream Identifier	
		W Wetland Identifier	



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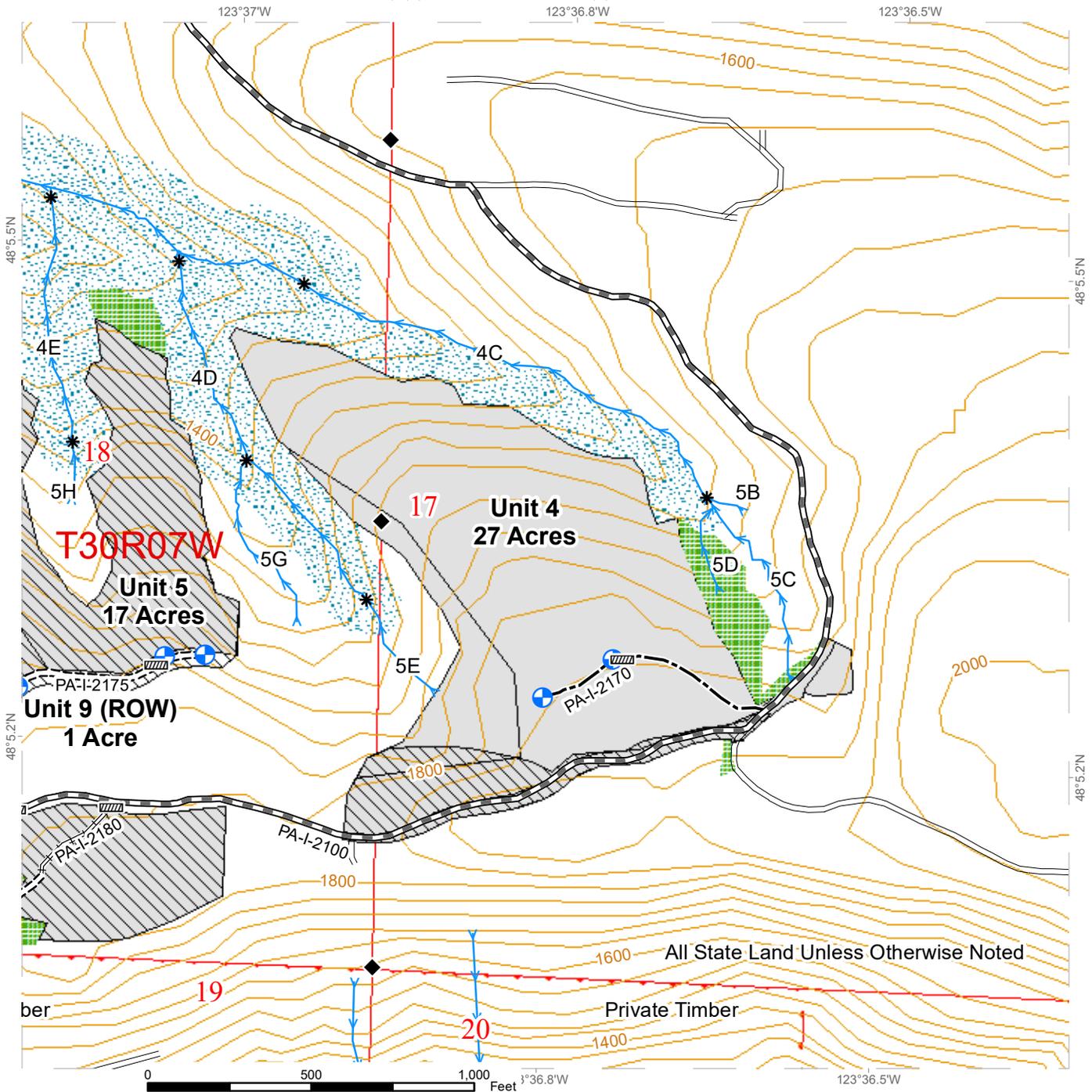
DNR Managed Lands	Riparian Management Zone	County Road	Stream Type
Section Lines	Existing Roads	Required Pre-Haul Maintenance	Stream Type Break
Township/Range Lines	Streams	Survey Monument	Gate (AA1)
Leave Tree Area	4A Stream Identifier		



# FOREST PRACTICE ACTIVITY MAP

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All State Land Unless Otherwise Noted

Private Timber

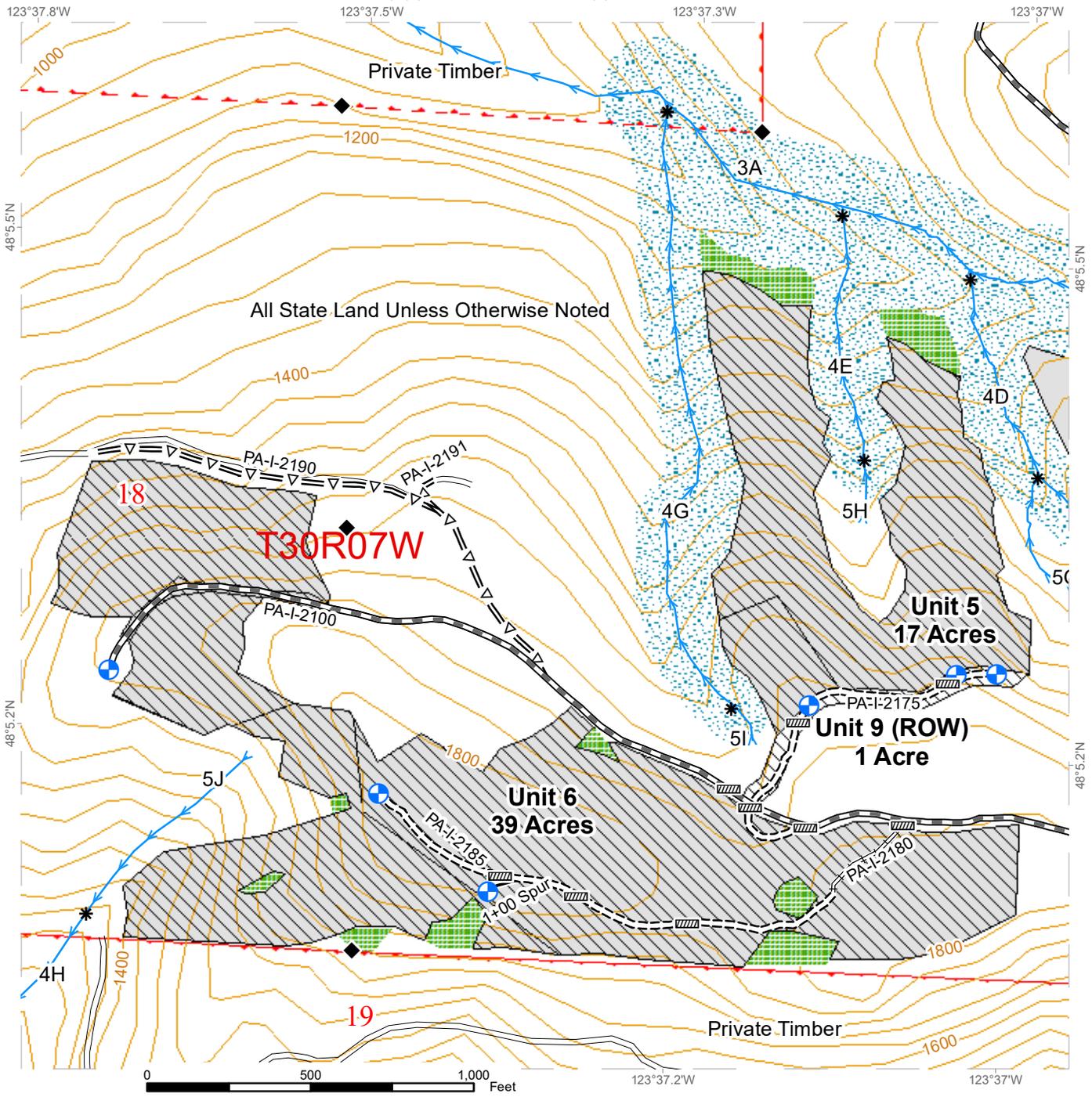
DNR Managed Lands	Leave Tree Area	Required Construction	Stream Type Break
Section Lines	Riparian Management Zone	Required Reconstruction	Survey Monument
Township/Range Lines	Existing Roads	Optional Construction	Culvert
Timber Sale Area	Required Pre-Haul Maintenance	Streams	Landing - Proposed
Timing Restriction		4A Stream Identifier	



# FOREST PRACTICE ACTIVITY MAP

**SALE NAME:** FLUTTERBY  
**AGREEMENT#:** 30-099655  
**TOWNSHIP(S):** T30R7W  
**TRUST(S):** Common School and Indemnity (3), State Forest Transfer (1)

**REGION:** Olympic Region  
**COUNTY(S):** Clallam  
**ELEVATION RGE:** 600'-1880'



DNR Managed Lands	Leave Tree Area	Required Construction	Stream Type
Section Lines	Riparian Management Zone	Required Reconstruction	Stream Type Break
Township/Range Lines	Existing Roads	Optional Pre-Haul Maintenance	Survey Monument
Timber Sale Area	Required Pre-Haul Maintenance	Optional Construction	Culvert
Timing Restriction	Streams	Landings - Proposed	
	4A Stream Identifier		

