

State of Alaska  
Department of Natural Resources  
Division of Forestry  
*Southeast Office*



**Forest Land Use Plan**  
**Bay View Timber Sale**  
**SSE 1369-K**

**October 2020**

**Amended November 20, 2020**

## Abbreviations

ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish and Game
ADNR	Alaska Department of Natural Resources
AWC	Anadromous Waters Catalog
BIF	Best interest finding
DMLW	Division of Mining, Land and Water
DOF	Division of Forestry
FLUP	Forest Land Use Plan
FRPA	Alaska Forest Resources and Practices Act
FYSTS	Five-year Schedule of Timber Sales
MBF	Thousand board feet
POG	Productive old growth
POW	Prince of Wales
POWIAP	Prince of Wales Island Area Plan
ROW	Right-of-way
SESF	Southeast State Forest
SESFMP	Southeast State Forest Management Plan
SHPO	State Historic Preservation Office
UA	University of Alaska
USFS	United States Forest Service

## Contents

I. Introduction:	5
A. Legal description:	6
B. Operational Period:	6
C. Timber Disposal:	6
D. Objectives and Summary:	7
II. Affected Landowners/Jurisdictions:	7
A. State:	7
B. Other Land Ownership:	7
III. Harvest Methods, Silvicultural Actions, and Management of Non-Timber Resources:	7
A. Timber Stand Description and History:	8
B. Timber Harvest Activities:	8
C. Site Preparation:	9
D. Reforestation:	9
E. Slash Abatement:	10
F. Timber Harvest—Surface Water Protection:	10
G. Wildlife Habitat:	11
H. Cultural and Historical Resource Protection:	12
I. Other Resources Affected by Timber Harvest and Management:	12
IV. Roads and Crossing Structures:	13
A. Road Design, Construction, and Maintenance:	13
B. Side Slopes / Mass Wasting:	19
C. Crossing Structures:	20
D. Road Closure:	23
E. Material Extraction:	25
F. Other Resources Affected by Roads or Material Extraction:	25
V. Approval:	26

VI. REQUESTS FOR RECONSIDERATION ..... 27

Appendix A: Bay View Timber Sale Maps..... 28

    Appendix A1 Bay View Area Map (1 page) ..... 28

    Appendix A2 Bay View Unit Maps (11 pages)..... 28

Appendix B: Supporting Information..... 29

Appendix C: Appeal Statutes and Regulations..... 30

Appendix D: DRAFT FLUP Public Comment ..... 36



## **I. Introduction:**

Project File Number: SSE 1369-K

Division of Forestry Office: Southeast

Area Forester: Greg Staunton

Forest Practices Geographic Region (AS 41.17.950): Region I

This Forest Land Use Plan (FLUP) covers forest operations on approximately 600 acres of land from state land on Prince of Wales (POW) Island, generally east of the City of Thorne Bay. It is intended to provide the best available information regarding the proposed harvest of timber and management of other non-timber uses in compliance with AS 38.05.112 and AS 41.17.060.

[ X ] This Forest Land Use Plan is for timber sale(s) which have been determined to be in the best interest of the state pursuant to AS 38.05.035 (e) and 38.05.945. This FLUP does not determine whether or not to access and sell timber within the timber sale area, nor the method of sale. Those decisions have been made previously in the May 10, 2020 Best Interest Finding and are not appealable under this FLUP.

The Final Best Interest Finding (BIF) and decision for the Bay View Timber Sale may be found at: <http://notice.alaska.gov/198138>

[ ] This Draft Forest Land Use Plan is for timber sale(s) for which a Preliminary Best Interest Finding is currently out for review. A final best interest finding must be completed prior to adoptions of a final FLUP pursuant to AS 38.05.035 (e) and 38.05.945;

[ ] This Draft Forest Land Use Plan is for timber to be harvested that does not require a final finding pursuant to 38.05.035 (e) and notification under 38.05.945.

A draft of this plan was distributed to the Department of Fish & Game (ADF&G) and the Department of Environmental Conservation (DEC) for their review and comments relevant to the consistency of this proposed project with the statutes governing forest land use plans (AS 38.05.112) and the requirements of the Alaska Forest Resources & Practices Act (AS 41.17) and its Regulations (11 AAC 95).

This Forest Land Use Plan was made available for public comments per AS 38.05.945; the review period ended on June 22, 2020. After public and agency review of the draft FLUP, the DOF reviewed comments (see Appendix D), made changes, and has issued this final FLUP.

This Forest Land Use Plan has been adopted by the Department of Natural Resources. Site specific compliance with the Alaska Forest Resources and Practices Act and the Regulations, as well as the Final Finding for this proposed project are reflected in this Forest Land Use Plan and will be implemented in the Timber Sale Contract.

An overview of changes from the draft FLUP are:

1. An alternate route for accessing Unit 1 on the west side of the sale area is described. This proposed route avoids the crossing of cataloged stream 1027010720 during the timber sale. Description of this alternative is in FLUP Section IVA. The new route will access the unit from the 3000160 Road and improve a segment of the existing 3000140 Road.
2. The timber sale boundary on the west side of Unit 1 that faces the City of Thorne Bay's floatplane dock has been field located. It was represented in concept in the draft FLUP.
3. The proposed access from Shoreline Drive has been removed from the map. The unit line has been moved uphill for the southern lobe of Unit 1 in Section 34 and Road 30001762-25 has been decreased in length.
4. A better location for Spur 3000178 was found on the east side of the draw on the north end of Unit 1. Spur 3000177 has been proposed due to the terrain west of Spur 300178.
5. The operational period has been lengthened.
6. The road closure dates changed in Table 8 to reflect current agency commitments.

[ X ] Other Documents are referenced in this FLUP. This timber sale is designed to be consistent with the management intent of the following documents:

Alaska Forest Resources & Practices Act

Prince of Wales Island Area Plan

Southeast State Forest Management Plan

The administrative record for this sale is maintained at the Division of Forestry Southeast Office filed as SSE 1369-K.

**A. Legal description:**

The timber sale area is found within Sections 22, 23, 25, 26, 27, 34, and 35, Township 71 South, Range 84 East, Copper River Meridian (CRM). The sale area is found within the Craig C-2 USGS quadrangle. Road access to the sale, maintenance and upgrade of State Forest road will be performed in Sections 14 and 15, Township 71 South, Range 84 East, CRM. See: Appendix A, SSE-1369 K Bay View Timber Sale Harvest Area Maps.

**B. Operational Period:**

2021 through 2030

**C. Timber Disposal:**

[X] Timber will be sold and will have a contract administrated by the State.

[ ] Timber will be available to the public; permits obtained by the public will be issued by the State.

[ ] Other.

## D. Objectives and Summary:

1. To follow the Alaska Department of Natural Resources' (ADNR) constitutional mandate to encourage the development of the State's renewable resources, making them available for maximum use consistent with the public interest;
2. To help the State's economy by providing royalties to the State in the form of stumpage receipts, an infusion to the State's economy through wages, purchases, jobs, and business;
3. To help the local economy of the communities within southern Southeast Alaska by creating additional jobs in Southeast Alaska due to the combination of road building, logging, trucking and potentially milling;
4. To harvest timber from future subdivision areas to promote economic development and minimize public risk; and
5. To minimize infrastructure development costs in the area though long range planning.

## II. Affected Landowners/Jurisdictions:

Activity on ownership:	Access	Representative	
	Easement	Harvest	Approval
<b>A. State:</b>			
<input checked="" type="checkbox"/> Southeast State Forest	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Other state land managed by DNR *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> University of Alaska	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Mental Health Trust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> School Trust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Settlement classified State land.			
<b>B. Other Land Ownership:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Land Owner: \_\_\_\_\_

Land Owner Representative: \_\_\_\_\_

## III. Harvest Methods, Silvicultural Actions, and Management of Non-Timber Resources:

Forest operations will be designed to:

- Protect fish habitat and water quality in compliance with the best management practices in 11 AAC 95.260-.370,
- Manage for the other land uses and activities identified in AS 41.17.060 and the Best Interest Finding for this timber sale, and
- Ensure prompt reforestation and maintenance of site productivity in compliance with AS 41.17.060(c) and 11 AAC 95 .375-.390.

Harvest and Silvicultural Methods:

☒ The silvicultural actions are described in this document, and no prescription was written or is necessary.

### ***A. Timber Stand Description and History:***

The proposed harvest area has the characteristics of mature old growth. The stand is dominated by a red cedar stand type. The timber identified is of mixed quality and notable in defect due to its slow growth and overall relatively low site class. The larger and better-quality timber in the area is generally located on the better drained soils. The stand is composed of western red cedar, western hemlock, Sitka spruce and occasional Alaska yellow cedar.

Second growth forests adjacent and to the west and north of the proposed harvest area exhibit indications of productive site conditions and are between 15 and 50 years old. The stand to the west was pre-commercially thinned and has responded well. The sites identified in this FLUP are mostly residual stands that did not have the species composition for market conditions in the past.

Timber Harvest Activities are displayed in Table 1.

**Table 1. Timber Harvest Activities**

<b>Unit ID</b>	<b>Setting</b>	<b>Acres</b>	<b>Topography</b>	<b>Silvicultural Action</b>	<b>Logging Method</b>
Unit 1	S	306	Irregular	Clearcut	Shovel logging
Unit 1	11	2	Irregular	Clearcut	High lead cable
Unit 1	12	4	Irregular	Clearcut	High lead cable
Unit 1	13	5	Irregular	Clearcut	High lead cable
Unit 1	14	3	Irregular	Clearcut	High lead cable
Unit 1	15	2	Irregular	Clearcut	High lead cable
Unit 1	16	4	Irregular	Clearcut	High lead cable
Unit 1	17	4	Irregular	Clearcut	High lead cable
<b>Unit 1</b>	<b>Total</b>	<b>330</b>			
Unit 2	S	95	Irregular	Clearcut	Shovel logging
Unit 2	21	12	Irregular	Clearcut	High lead cable
<b>Unit 2</b>	<b>Total</b>	<b>107</b>			
Unit 3	S	124	Irregular	Clearcut	Shovel logging
Unit 3	31	9	Irregular	Clearcut	High lead cable
Unit 3	32	2	Irregular	Clearcut	High lead cable

Unit 3	33	2	Irregular	Clearcut	High lead cable
<b>Unit 3</b>	<b>Total</b>	<b>137</b>			
Unit 11		19	Irregular	Clearcut	Shovel Logging
Unit 12		7	Irregular	Clearcut	Shovel Logging
Total All Units		600			

*Note: Figures are rounded to nearest whole numbers. Settings are estimated based on slope characteristics. Some variation may occur depending on technology available and specific harvest system employed.*

### **C. Site Preparation:**

☒ Site preparation will not be necessary. There will be sufficient soil disturbance by logging to forego scarification.

☐ Site preparation will be implemented and described in Table 2:

**Table 2. Site Preparation (not required, omitted)**

### **D. Reforestation:**

☒ Clearcut

☐ Partial Harvest:

☐ Region I: leaving more than 50% live basal area (11 AAC 95(b)(3))

☐ Region II/III: Relying on residual trees to result in a stocking level that meets standards of 11 AAC 95.375 (b 4). Stocking levels will be calculated subject to the methods below:

**Table 3. Stocking Level Requirements (not required, omitted)**

☒ Natural regeneration

List species: western red cedar, Sitka spruce, western hemlock, Alaska yellow cedar

☐ Coppice

☐ Artificial regeneration

☐ Seeding-source of seed (general vicinity and location of seed source)

\_\_\_\_\_

☐ Planting: Date of proposed planting: \_\_\_\_\_

Source of seedlings (location of seed source): \_\_\_\_\_

### ***E. Slash Abatement:***

- ☐ Potential for insect infestations caused by slash accumulations exists. Slash abatement for controlling infestations will be implemented as required by 11AAC 95.370.
- ☐ Lop and scatter slash; accumulations will be kept to less than 2 feet in height.
- ☒ Slash will be scattered by the operator in the course of logging.
- ☐ Slash will be disposed of by the State.
- ☐ Other - method of slash disposal: ☐ removal off site ☐ crushing or grinding ☐ burning
- ☐ Burn permits necessary from DOF and DEC to be acquired.
- ☐ The operator will contact the Division of Forestry local area office prior to ignition of debris.

### ***F. Timber Harvest—Surface Water Protection:***

- ☐ There are no streams or lakes abutting or within a harvest unit.
- ☒ Known surface waters and protection measures are described in Table 4 below.
- Locations and types are indicated on the operational map in the Appendices.*

**Table 4. Protection for Known Surface Waters**

Unit	Waterbody Name	AS 41.17.950 Classification	ADF&G AWC #	Required Riparian Protection	Site-specific actions to minimize impacts on waters.
All	All	Non-classified surface waters	none	none	Implement FRPA and Regulations, including actions such as: will not buck or limb in or over surface waters, clear logging slash in surface waters as yarding occurs, minimize the introduction of logging debris in and adjacent to waters through preplanning with the purchaser, coordinate cutting activity, and ensure operator is aware of surface water location.
All	Water Lake Creek	Anadromous	1027010720	100 FT	Retain timber per AS 41.17.118(a)1(A) and (B)
N/A	Water Lake	N/A	N/A	N/A	No harvest or road building activity will occur in the codified watershed for the drinking water supply of the City of Thorne Bay.
1	Unnamed	Anadromous	1027010720-2007	100 FT	Retain timber per AS 41.17.118(a)1(A) and (B)
1/2	Several and Unnamed	Tributary to Anadromous <12%	none	100 FT. Slope Stability Standards	Site specific logging plan by purchaser approved by DOF*.
1/2/3	Numerous and unnamed	Tributary to Anadromous >12%	none	50 FT. Slope Stability Standards	Site specific logging plan by purchaser approved by DOF*.

*\* The site specific operating plan will have as its prime objective the maintenance of existing water quality by retaining bank stability and, to the maximum extent feasible, the avoidance of instream activity to minimize the introduction of soil, debris, slash and petroleum products directly and indirectly into classified waters.*

Surface waters listed above were reviewed by the Department of Fish and Game:

- ☒ During the timber sale planning process
- ☒ During the agency review conducted for the Best Interest Finding for this sale
- ☒ During the drafting of this Forest Land Use Plan
- ☒ Stream Crossings (Title 16) Permits are needed per ADF&G Division of Habitat

Surface waters listed above were reviewed by the Department of Environmental Conservation:

- ☒ During the timber sale planning process
- ☒ During the agency review conducted for the Best Interest Finding for this sale
- ☒ During the drafting of this Forest Land Use Plan

Non-classified surface waters are subject to applicable Best Management Practices in 11 AAC 95.

### ***G. Wildlife Habitat:***

- ☒ Wildlife species and allowances for their important habitats were addressed in writing by the Department of Fish & Game during the Best Interest Finding review.

- ☐ Wildlife species and allowances for their important habitats were addressed in writing by the Department of Fish & Game during the drafting of this Forest Land Use Plan.

Silvicultural practices to be applied to minimize impacts to wildlife habitat or wildlife management:

- ☒ Timber retention - concentrations of timber surrounding harvest units, or interspersed within harvest units to provide cover.
- ☐ Snag Retention- snags or isolated trees left for cavity nesting species.
- ☒ Large Woody Debris – concentrations of downed timber or logging debris interspersed within harvest units to provide cover left on site.
- ☒ Other actions.

1. Per DOF direction (upon ADFG confirmation of active denning by wolves within one-half mile of operations), implement noise reduction for commercial harvest activity within one-half mile of the den site between March 15 and July 15. Activities such as but not limited to blasting, road construction, and helicopter logging have been documented to disturb and displace denning wolves. The locations in the sale that this may affect are:

- Road 3000150 between points P1013 and P1050.
- Road 3000165.
- Road 3000160 between points P1026 and P1506.

2. Large cavities in western red cedars with evidence of past black bear use have been retained by DOF with an adjacent 66 foot retention area of timber. These sites are all located on the edges of the timber sale units. No specific action is required by the purchaser.

***H. Cultural and Historical Resource Protection:***

- [X] This project was reviewed by the State Historic and Preservation Office (SHPO).  
[X] No artifacts have been reported within the project area(s).  
[ ] Known or likely sites have been identified and a mitigation plan is in place. (Describe the mitigation actions.)

***I. Other Resources Affected by Timber Harvest and Management:***

[X] There are other resources and areas of concern besides surface water, fish habitat, and wildlife habitat that may be affected. Mitigations actions were addressed in the Best Interest Finding.

**Table 5. Other Affected Resources/ Areas of Concern.**

Impacted Resource	Reviewing Agency	Impact/ Mitigation Actions
Visual	DOF/ DMLW	Change in vegetation, Unit configuration.

[ ] There are no affected resources or areas of concern other than surface water, fish habitat, and wildlife habitat, which are addressed in this Forest Land Use Plan.



## **IV. Roads and Crossing Structures:**

### ***A. Road Design, Construction, and Maintenance:***

Roads will be designed, constructed, and maintained to prevent significant adverse impacts on water quality and fish habitat (AS 41.17.060(b) (5)), and site productivity (AS 41.17.060(c) (5)). Roads will comply with the best management practices in the Forest Resources and Practices Regulations (11 AAC 95.285 – 95.335). Road class is as defined in the DOF Road Standards unless otherwise noted.

Roads or other means required for the access and removal of this timber from the harvest area(s) or unit(s) are listed in Tables 6A and 6B.

**Table 6A. Road Reconstruction and Use**

**Table 6A-1 Road 3000150**

Drainage Structure Size (IN)	Map Label	Description of Work or Pt.	Length (FT)
	M1	JCT. USFS3000 Road	
24	M4	Clean Culvert	
24	M6	Clean Culvert	
	M7	Spur Junction	
	M8 to M9	Add rock borrow	130
36	M10	NA	
	M11 to M14	Reshape road/ditch	620
24	M13	NA	
	M14	Add rock borrow.	50
None	M16	Spur to right	
None	M17	Spur to left	
24	M19	Edge existing pit	
	M19 to M68*	Reconstruct for Grade of <11%	650
18	M23	Reinstall/ install culvert as required.	
None	M68*	Modify grade to north.	
None	M24	Reshape road/ditch	50
None	M25	Clean Culvert, add rock borrow.	50
18	M26	Clean Culvert	
None	M27	Reconstruct subgrade, add ditch	50
	M27-M28	Reconstruct for Grade of <11%	100
18	M28	Clean Culvert	
18	M29	Clean Culvert	
24	M30	NA	
18	M31	Clean Culvert	
None	M32	Reshape road/ditch	50
18	M33	Clean Culvert	
Bridge	M34	Replace log stringer bridge AWC 1027010740 (permit req.)	30
None	M35	Reshape road/ditch	50
None	M36	NA	
None	M37	Reshape road	50
None	M38	Lift, reshape, ditch.	50
18	M39	Clean Culvert	
None	M40	NA	
None	M41	NA	
18	M42	NA	

Drainage Structure Size (IN)	Map Label	Description of Work or Pt.	Length (FT)
	M42-M44	Reshape road	
18	M44	NA	
None	M45	Spur left	
18	M49	Clean Culvert	
18	M50	Clean Culvert	
	M50-M51	Reshape road	
18	M51	Clean Culvert	
None	M53	Clean Culvert	
24	M54	NA	
None	M55	Rock pit, spur RT	
	M54 to M57	Reconstruct for grade of <11%	300
None	M57	Fix subgrade	
None	M58	Construct rip rap buttress, add road width on inside of curve	
18	M58	Add 18"CPP	
None	M59	Ditch LT. to M58.	126
18	M60	NA	
18	M61	Clean Culvert	
18	M62	Clean Culvert	
None	M63	Lower hump, establish ditch	50
18	M64	Clean Culvert	
None	M65	Widen road, ditch, fix subgrade.	50
None	M66	Spur RT.	
None	M67	End existing road	

*Note: All of Table 6A-1 pertains to existing Road 3000150, which is classified as a secondary road with site specific designation for a maximum grade of 12% for adverse haul (relative to the 3000 Mainline Road). Road 3000150 shall be brushed as required to meet DOF Road Standards and operator visibility for safety. Road will be reconstructed and maintained by purchaser prior to hauling operations. NA= No Action Required (at time of survey).*

*\*Point codes are out of order due to data capture and documentation method. As of publication date of this document, points are not labeled in the field.*

**Table 6A-2 Road 3000140 Access Alternative**

Drainage Structure Size (IN)	Map Label	Description of Work or Pt.	Estimated Length (FT)
	B1006	New 3000160 Road junction with existing 3000140 Road.	
18	B1006	Install CPP.	30
	B1007	Begin new construction adjacent to old roadbed.	
	B1007-B1015	Construct through cut at -12% as specified by DOF.	500
24	B1015	Install CPP.	40
	B1015-B1022	Full bench, cut to grade of less than -12% as specified by DOF.	300
24	B1023	Replace existing 36" CMP with 24" CPP.	40
48	B1027	Replace existing CMP with CPP	50
18	B1029	Replace existing CMP with CPP	30
	B1022-B1031	Fill as specified by DOF to transition to existing road surface.	660
	No label	Junction of the 3000140 and the 3000148. Install gate (DOF) on the 3000140 (west) to restrict traffic to the Water Lake area. Reconfigure intersection.	
	B1031-P1143	Brush, resurface and grade existing road and spur as required to tie into new Road 3000150-3.	

*Note: All of Table 6A-2 pertains to modification of a portion of existing Roads 3000140 and 3000148 to bring them into a classification as secondary roads with site specific designation for a maximum grade of 12% for adverse haul (relative to the 3000 Mainline Road).*

**Table 6B. New Road Construction and Use**

Road ID	Segment	Start/ End	Harvest Unit	Stations (1 station = 100 FT.)	Road Class	% Max. Grade	Constructed by:	Maintained by:
3000150	3	P1143/ P1103	1	43.9	Primary	12	TSP/ State	TSP/ State
3000150	5	P1103/ P1083	3	26.1	Primary	12	TSP/ State	TSP/ State
3000150	7	P1078/ P1083	3	6.5	Primary	12	TSP/ State	TSP/ State
3000150	10	P1058/ Map Point East	2	6.2	Secondary	12	TSP/ State	TSP/ State
3000150 Bridge Access Option	11	Map Points East/ West	Riparian	6.8	Secondary	12	TSP/ State	TSP/ State
3000150	12	Map Point West/ P1078	1	11.2	Secondary	12	TSP/ State	TSP/ State
3000150	13	P1039/ P1058	2	28.2	Secondary	12	TSP/ State	TSP/ State
3000150	14	P1000/ P1039	3	59.0	Secondary	12	TSP/ State	TSP/ State
3000160	21	P1026/ P1515	3	19.8	Secondary	12	TSP/ State	TSP/ State
3000160	31	P1515/ End	3	4.1	Secondary	12	TSP/ State	TSP/ State
3000161	23	P1515/ End	3	10.6	Spur		TSP/ State	TSP/ State
3000162	29	P1034/ End	3	5.3	Spur		TSP/ State	TSP/ State
3000163	24	P1039/ End	12	4.1	Spur		TSP/ State	TSP/ State

Road ID	Segment	Start/ End	Harvest Unit	Stations (1 station = 100 FT.)	Road Class	% Max. Grade	Constructed by:	Maintained by:
3000164	16	P1058/ P1406	2	20.2	Spur		TSP/ State	TSP/ State
3000164	18	P1406/ P1400	2	9.4	Spur		TSP/ State	TSP/ State
3000165	17	P1406/ End	2	7.9	Spur		TSP/ State	TSP/ State
3000166	9	P1078/ P1204	1	7.9	Primary	12	TSP/ State	TSP/ State
3000166	11	P1204/ P1220	2	10.5	Secondary	12	TSP/ State	TSP/ State
3000166	19	P1220/ P1251	2	18.9	Secondary	12	TSP/ State	TSP/ State
3000167	10	P1204/ P1213	1	17.4	Secondary	12	TSP/ State	TSP/ State
3000168	26	P1220/ End	1	6.3	Spur		TSP/ State	TSP/ State
3000169	20	P1228/ P1246	1	9.5	Secondary	12	TSP/ State	TSP/ State
3000170	27	P1231/ End	1	15.2	Secondary	12	TSP/ State	TSP/ State
3000171	15	P1083/ P1306	1	9.6	Spur		TSP/ State	TSP/ State
3000172	2	P1087/ P1317	1	13.4	Spur		TSP/ State	TSP/ State
3000173	4	P1313/ End	1	2.7	Spur		TSP/ State	TSP/ State
3000174	6	JCT./ End	1	4.5	Spur		TSP/ State	TSP/ State
3000175	28	P1094/ End	1	6.8	Spur		TSP/ State	TSP/ State
3000176	25	P1103/ End	1	4.0	Spur		TSP/ State	TSP/ State

Road ID	Segment	Start/End	Harvest Unit	Stations (1 station = 100 FT.)	Road Class	% Max. Grade	Constructed by:	Maintained by:
		End						
3000177	Null	P1123/End	1	3.0	Spur		TSP/ State	TSP/ State
3000178	0	P1137/End	1	6.0	Spur		TSP/ State	TSP/ State
3000179	1	P1138/ P1344	1	20.2	Spur		TSP/ State	TSP/ State
3000180	8	P1340/End	1	5.3	Spur		TSP/ State	TSP/ State

*Notes:*

- 1. All Roads must be less than 20% grade per 8 AAC 61.1060 Additional Logging Standards. Maximum road grade shall be based on DOF road class unless otherwise specified.*
- 2. The 300172, the 3000175, and the 3000178 Roads may require realignment at their junctions depending on the haul route alternative (alignment depicted on map is for hauling across the P1067 Bridge).*
- 3. TSP/ State indicates that the road will be built under a DOF timber sale contract and maintained during that period by the timber sale purchaser (TSP). Road maintenance after the timber sale will be a DNR responsibility unless the road is closed at the end of the timber sale contract.*

***B. Side Slopes / Mass Wasting:***

For slopes over 50%, identify indicators of unstable areas (landslide scars, jack-strawed trees, gullied or dissected slopes, high density of streams or zero-order basins, or evidence of soil creep). Location specific road design mitigates identified areas of unstable soils.

Maximum percent side slopes: 45%

☐ There are no slopes >45%.

☐ There are no indicators of unstable areas where roads will be constructed.

☒ Indicators of unstable areas were identified and will be mitigated by actions indicated below:

☒ Full benching will be constructed to help ensure slope stability.

☐ Full benching is not required for roads in this project.

☐ End hauling will be implemented to help ensure slope stability.

☐ End hauling is not necessary for roads in this project.

Location(s): Road 3000140 Access Alternative contains 300 feet of existing road built on a short pitched side slope that varies between 65% and 100%. This road appears to be stable and constructed on a solid rock full bench. The outside three to four feet of the road fill is showing indications of settling. The timber in the area is well rooted and there are no other signs of soil or debris movement. Additional loading of the hillside will be avoided during construction.

General Erosion Control:

☒ grass seeding    ☐ erosion control mats    ☐ wattle    ☒ Other: Waterbars  
☐ not applicable

**C. Crossing Structures:**

☐ No crossing structures are needed within the project area.

☐ No existing drainage structures will be replaced.

☒ Crossing structures will be placed along access roads as described in the table below:

*See Table 6A1 and 6A2 for planned actions on existing drainage structures.*

**Table 7. Required Drainage and Crossing Structures on Known Surface Waters**

Road	Segment	Point Label	Bridge FT. or Culvert Diameter IN.	Structure Type:	AS 41.17.950 Stream Classification	Fish & Game AWC Number	Duration of crossing structure in place
3000150	3	P1108	36	CPP	Surface water	None	Per Table 8
3000150	3	P1111	18	CPP	Surface water	None	Per Table 8
3000150	3	P1116	18	CPP	Surface water	None	Per Table 8
3000150	3	P1117	18	CPP	Surface water	None	Per Table 8
3000150	3	P1119	36	CPP	Surface water	None	Per Table 8
3000150	3	P1122	18	CPP	Surface water	None	Per Table 8
3000150	3	P1136	18	CPP	Surface water	None	Per Table 8
3000150	3	P1142	18	CPP	Surface water	None	Per Table 8
3000150	5	P1086	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	5	P1088	36	CPP	Tributary anadromous <12%	None	Per Table 8
3000150	5	P1097	18	CPP	Surface water	None	Per Table 8
3000150	5	P1100	24	CPP	Surface water	None	Per Table 8
3000150	5	P1101	18	CPP	Surface water	None	Per Table 8
3000150	7	P1080	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	10	P1061	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	10	P1063	24	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	11	P1067	60	Modular Bridge	Anadromous	1027010720	Per Table 8
3000150	12	P1074	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	12	P1076	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	13	P1042	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	13	P1050	18	CPP	Tributary anadromous <12%	None	Per Table 8



Road	Segment	Point Label	Bridge FT. or Culvert Diameter IN.	Structure Type:	AS 41.17.950 Stream Classification	Fish & Game AWC Number	Duration of crossing structure in place
3000150	14	P1007	18	CPP	Surface water	None	Per Table 8
3000150	14	P1008	18	CPP	Surface water	None	Per Table 8
3000150	14	P1011	24	CPP	Surface water	None	Per Table 8
3000150	14	P1012	18	CPP	Surface water	None	Per Table 8
3000150	14	P1013	18	CPP	Surface water	None	Per Table 8
3000150	14	P1017	18	CPP	Surface water	None	Per Table 8
3000150	14	P1018	18	CPP	Surface water	None	Per Table 8
3000150	14	P1027	36	CPP	Surface water	None	Per Table 8
3000150	14	P1030	18	CPP	Surface water	None	Per Table 8
3000150	14	P1038	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000160	21	P1501	36	CPP	Tributary anadromous >12%	None	Per Table 8
3000160	21	P1506	18	CPP	Surface water	None	Per Table 8
3000160	21	P1513	18	CPP	Surface water	None	Per Table 8
3000163	24	P1530	24	CPP	Tributary anadromous >12%	None	Per Table 8
3000163	24	P1532	18	CPP	Surface water	None	Per Table 8
3000164	16	P1411	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000164	16	P1412	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000164	16	P1414	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000164	16	P1417	36	CPP	Tributary anadromous >12%	None	Per Table 8
3000164	16	P1418	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000164	18	P1403	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000164	18	P1405	18	CPP	Tributary anadromous <12%	None	Per Table 8
3000165	17	P1407	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000166	9	P1200	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000166	11	P1214	18	CPP	Tributary anadromous <12%	None	Per Table 8
3000166	11	P1217	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000166	19	P1221	18	CPP	Surface water	None	Per Table 8
3000169	20	P1245	18	CPP	Surface water	None	Per Table 8

Road	Segment	Point Label	Bridge FT. or Culvert Diameter IN.	Structure Type:	AS 41.17.950 Stream Classification	Fish & Game AWC Number	Duration of crossing structure in place
3000170	27	P1233	18	CPP	Surface water	None	Per Table 8
3000170	27	P1237	18	CPP	Surface water	None	Per Table 8
3000172	2	P1307	36	CPP	Tributary anadromous >12%, Title 16 Permit, Resident fish passage required.	None	Per Table 8
3000172	2	P1309	18	CPP	Surface water	None	Per Table 8
3000172	2	P1311	36	CPP	Tributary anadromous <12%	None	Per Table 8
3000172	2	P1315	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000172	2	P1316	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000175	28	P1324	18	CPP	Surface water	None	Per Table 8
3000179	1	P1336	18	CPP	Surface water	None	Per Table 8

CPP= High Density Double Wall Polyethylene Corrugated Plastic Pipe or Equivalent.

#### ***D. Road Closure:***

Roads constructed for the timber sale that are left open will be subject to maintenance standards under 11 AAC 95. 315. Otherwise, roads constructed for the timber sale will be closed, subject to standards under 11 AAC 95.320.

**Table 8. Road Closures**

Road ID	Segment	Unit	Closure Type All /Winter	Estimated Closure Date	Projected Road Use After Timber Harvest
3000140	Access	NA	All Season	2030	Silviculture, Settlement
3000148	Access	NA	All Season	2030	Silviculture, Settlement
3000150	3	1	All Season	2030	Recreation, Settlement
3000150	5	3	All Season	2030	Recreation, Settlement
3000150	7	3	All Season	2030	Recreation, Settlement
3000150	11, 12	1,2	All Season	2025	Recreation, Settlement
3000150	13	2	All Season	2030	Recreation, Settlement
3000150	14	3	All Season	2030	Silviculture
3000160	21	3	All Season	2030	Silviculture
3000160	31	3	All Season	2030	Silviculture
3000161	23	3	All Season	2025*	Silviculture
3000162	29	3	All Season	2025*	Silviculture
3000163	24	11	All Season	2030*	Silvaculture
3000164	16	2	All Season	2025*	Recreation, Settlement
3000164	18	2	All Season	2025*	Recreation, Settlement
3000165	17	2	All Season	2025*	Recreation, Settlement
3000166	9	1	All Season	2030	Recreation, Settlement
3000166	11	2	All Season	2030	Recreation, Settlement
3000166	19	2	All Season	2030	Recreation, Settlement
3000167	10	1	All Season	2030	Recreation, Settlement

Road ID	Segment	Unit	Closure Type All /Winter	Estimated Closure Date	Projected Road Use After Timber Harvest
3000168	26	1	All Season	2025*	Recreation, Settlement
3000169	20	1	All Season	2025*	Recreation, Settlement
3000170	27	1	All Season	2025*	Recreation, Settlement
3000171	15	1	All Season	2025*	Recreation, Settlement
3000172	2	1	All Season	2025*	Recreation, Settlement
3000173	4	1	All Season	2025*	Recreation, Settlement
3000174	6	1	All Season	2025*	Recreation, Settlement
3000175	28	1	All Season	2025*	Recreation, Settlement
3000176	25	1	All Season	2025*	Recreation, Settlement
3000177	NULL	1	All Season	2025*	Recreation, Settlement
3000178	0	1	All Season	2025*	Recreation, Settlement
3000179	1	1	All Season	2025*	Recreation, Settlement
3000180	8	1	All Season	2025*	Recreation, Settlement

*\* The DOF will direct the closure of these timber sale roads upon completion of harvest unless a road management agreement is in place with a recognized entity that meets the approval of the DNR. Road closure will be based on funding and authority of the land manager: ADNR- Division, Mining, Land and Water (DMLW) or DOF.*

### ***E. Material Extraction:***

[ ] There will be no material extraction sites in the project area.

[ ] Material extraction and associated overburden disposal will be located outside of riparian areas and muskegs. Material extraction and disposal will be located as shown on the operation map, in a manner that prevents runoff from entering surface waters.

[X] Other: Material extraction and associated overburden disposal will be located outside of riparian areas and muskegs. Material extraction and disposal locations will be selected by the purchaser and approval will be required by the Division of Forestry. Material sites will generally be on or adjacent to the identified roads.

### ***F. Other Resources Affected by Roads or Material Extraction:***

List resources other than water, habitat or cultural resources potentially impacted by road construction, and indicate how impacts will be mitigated. Other affected resources could be, but are not limited to mining claims, scenic areas, recreational trails, etc.

**Table 9. Other Affected Resources**

Impacted Resource	Reviewing Agency	Impact/ Mitigation Actions
Visual	DOF/ DMLW	Change in appearance, Unit configuration.

**V. Approval:**

**This Forest Land Use Plan has been reviewed by the Division of Forestry and provides the information necessary for public and by agency review of the project described in this document as required by AS 38.05.112.**

A handwritten signature in blue ink, appearing to read "Corri Feige", is written over a horizontal line.

**Corri Feige  
Commissioner**

October 21, 2020

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**Date**

## **VI. REQUESTS FOR RECONSIDERATION**

A person who has standing under Alaska law may request reconsideration in accordance with 11 AAC 02. Any reconsideration request must be received within twenty (20) days of issuance of this decision. The request may be mailed or delivered to Corri Feige, Commissioner, Department of Natural Resources, 550 W. 7th Avenue, Suite 1400, Anchorage, Alaska 99501; faxed to 1-907-269-8918, or sent by electronic mail to [dnr.appeals@alaska.gov](mailto:dnr.appeals@alaska.gov). A copy of 11 AAC 02 is provided in Appendix C.

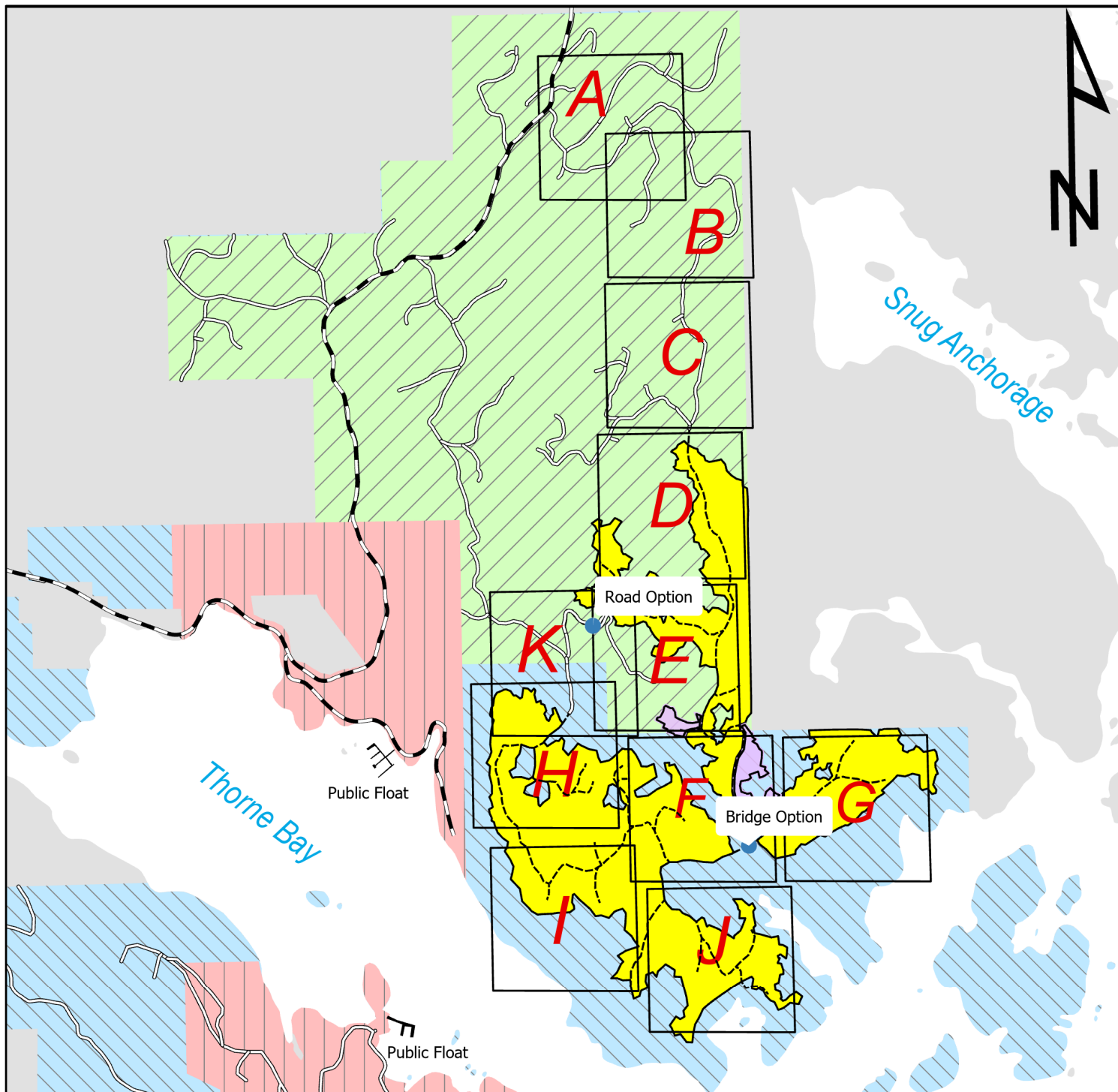
If you have any questions, please contact the Southeast Area Office at (907) 225-3070 or e-mail [greg.staunton@alaska.gov](mailto:greg.staunton@alaska.gov).

**Appendix A: Bay View Timber Sale Maps**

***Appendix A1 Bay View Area Map (1 page)***

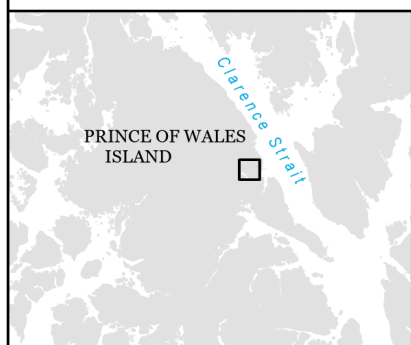
***Appendix A2 Bay View Unit Maps (11 pages)***





0 0.25 0.5 1 Miles

Township 71S, Range 84E  
Copper River Meridian



Vicinity Map: 1 inch = 36 miles

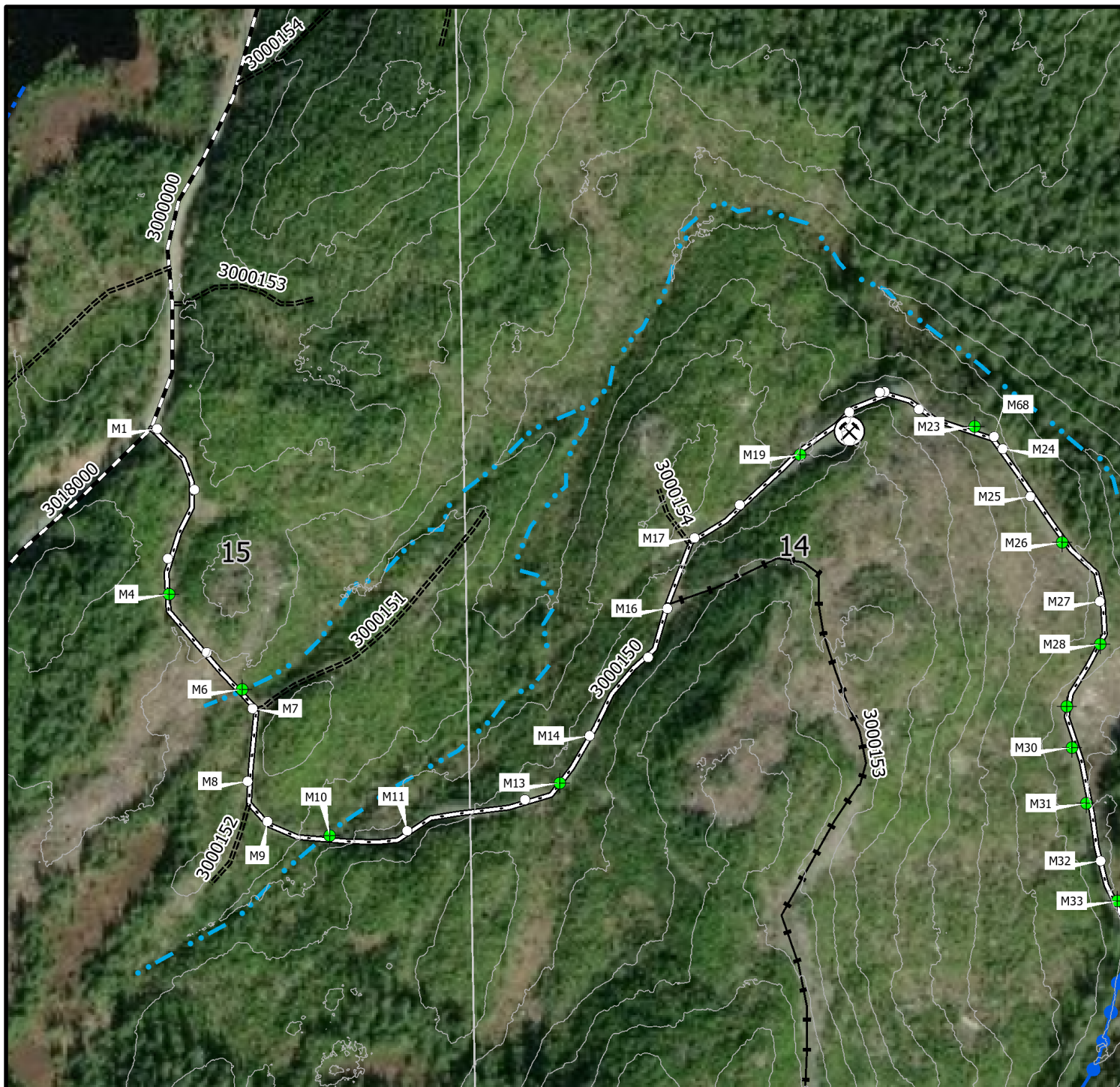
#### Legend

- Map Pages
- Proposed Small Sale Areas
- Proposed Timber Sale(s)
- Owner**
- State
- Municipal/ Private
- Southeast State Forest
- Major Roads

### APPENDIX A1 SSE-1369 K Bay View Timber Sale Area Map



**DIVISION OF FORESTRY**



0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 14, 15.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

- Proposed Timber Sale(s)
- Proposed Small Sale Areas
- Cable Logging Setting
- Proposed Harvest Roads**
  - Primary
  - Secondary
  - Spur
- Proposed Drainage Structures

- Existing Forest Roads**
  - Active Primary
  - Secondary (upgrade)
  - Inactive Spur
  - Closed
- Existing SESF Road Features**
  - Culvert
  - Road Points
  - ⊗ Rock Pit

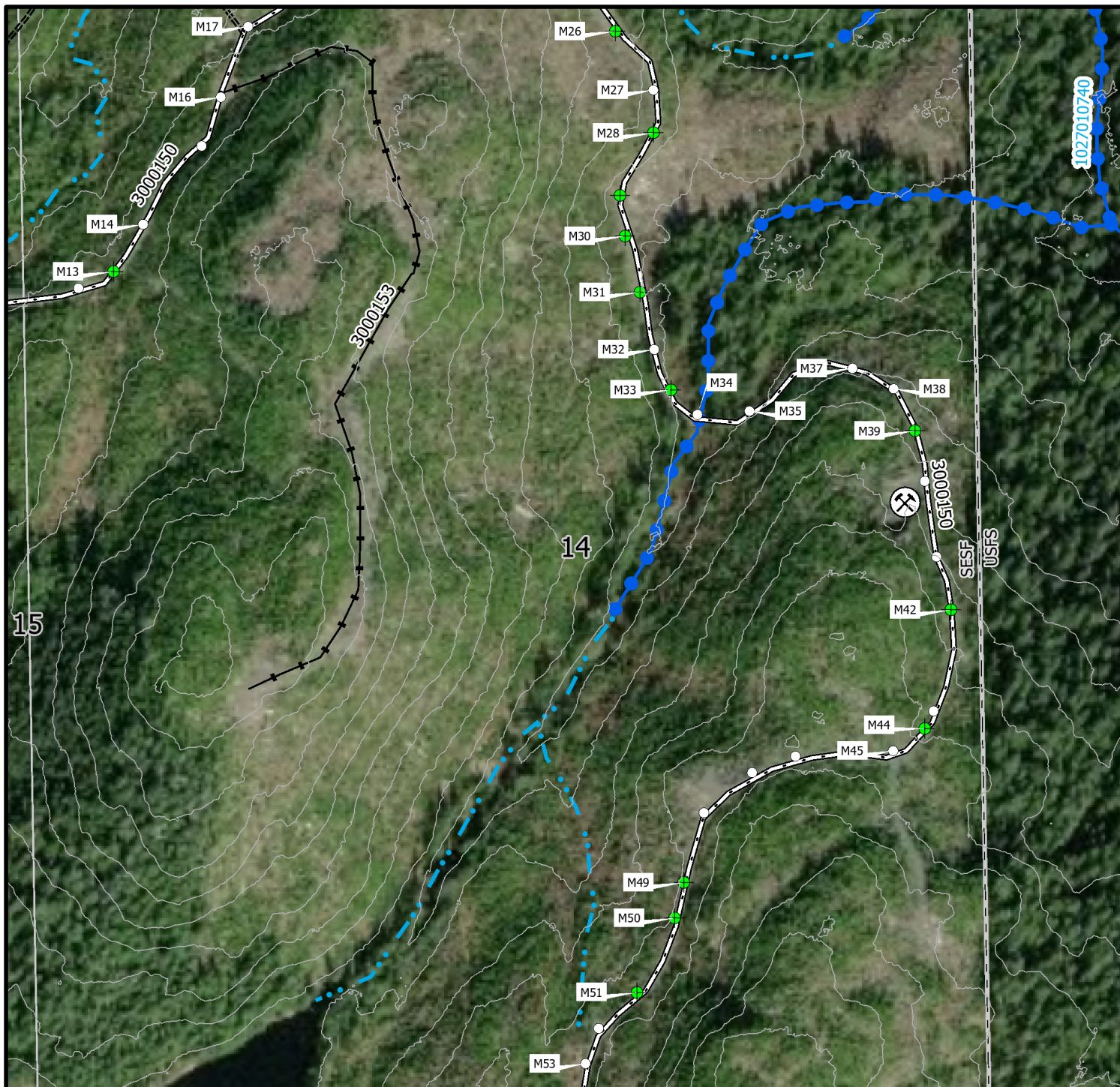
- Changes**
  - ▲ Proposed Road to be removed
  - Proposed Road to Add
- Streams**
  - Anadromous
  - ◆ Tributary to Anadromous ≤ 12%
  - ◆ Tributary to Anadromous > 12%
  - Surface Waters
  - Thorne Bay Codified Watershed
  - ⊙ Eagle Nest

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: A "Existing 1"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 14, 15.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

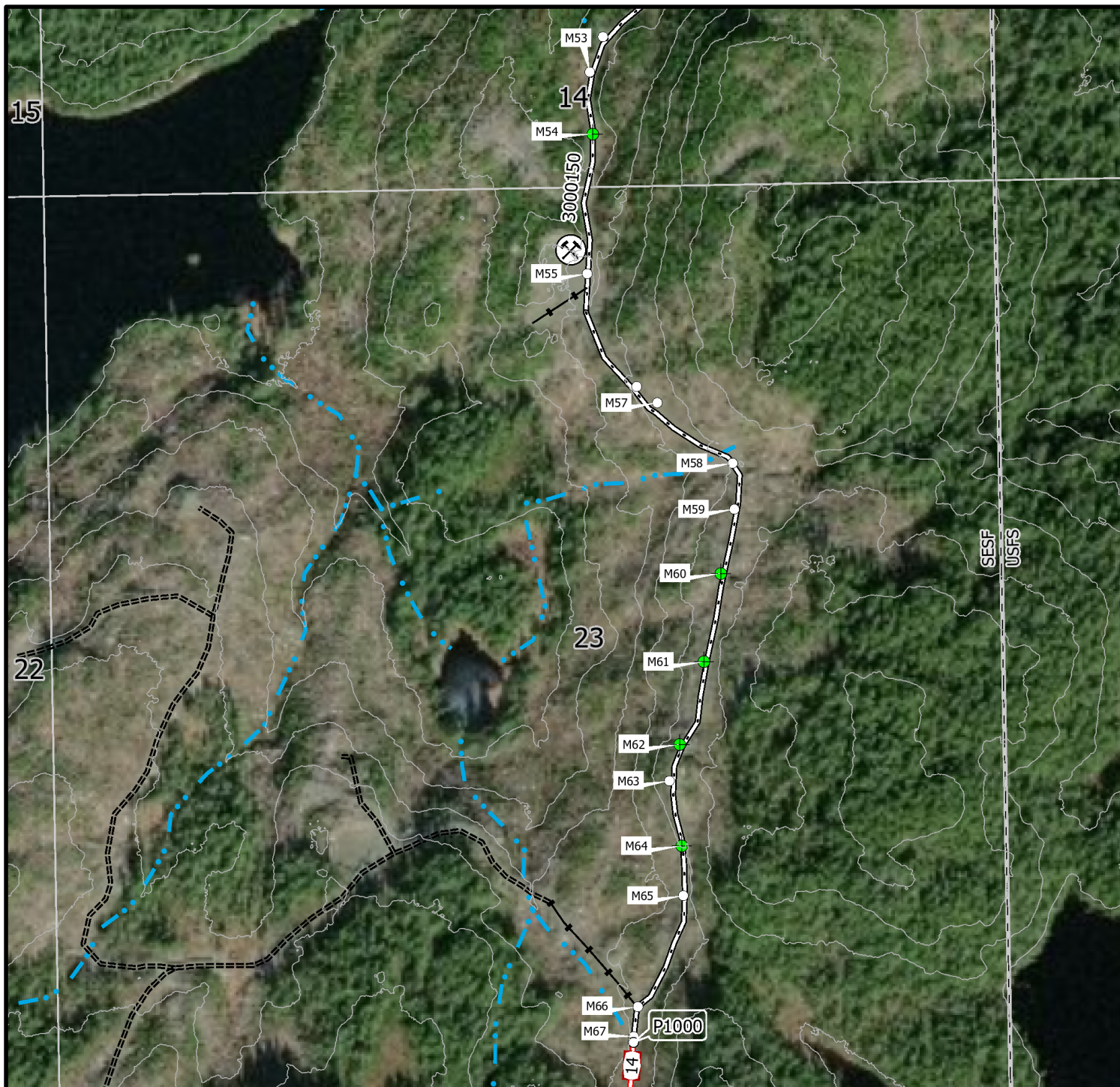
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|--|---|---|
| <ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> </ul>                      | <ul style="list-style-type: none"> <li>Existing Forest Roads</li> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul> | <ul style="list-style-type: none"> <li>Changes</li> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul>  |
| <ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul> | <ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>                               | <ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul> |

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: B "Existing 2"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 14, 15, 22, 23.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

Proposed Timber Sale(s)	Existing Forest Roads	Changes
Proposed Small Sale Areas	Active Primary	Proposed Road to be removed
Cable Logging Setting	Secondary (upgrade)	Proposed Road to Add
<b>Proposed Harvest Roads</b>	Inactive Spur	<b>Streams</b>
Primary	Closed	Anadromous
Secondary	<b>Existing SESF Road Features</b>	Tributary to Anadromous ≤ 12%
Spur	Culvert	Tributary to Anadromous >12%
Proposed Drainage Structures	Road Points	Surface Waters
	Rock Pit	Thorne Bay Codified Watershed
		Eagle Nest

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: C "Existing 3"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 22, 23.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

<ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> </ul>	<ul style="list-style-type: none"> <li>Existing Forest Roads</li> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul>	<ul style="list-style-type: none"> <li>Changes</li> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul>
<ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul>	<ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>	<ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul>

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: D "Unit 3 North"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 22, 23, 26, 27.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

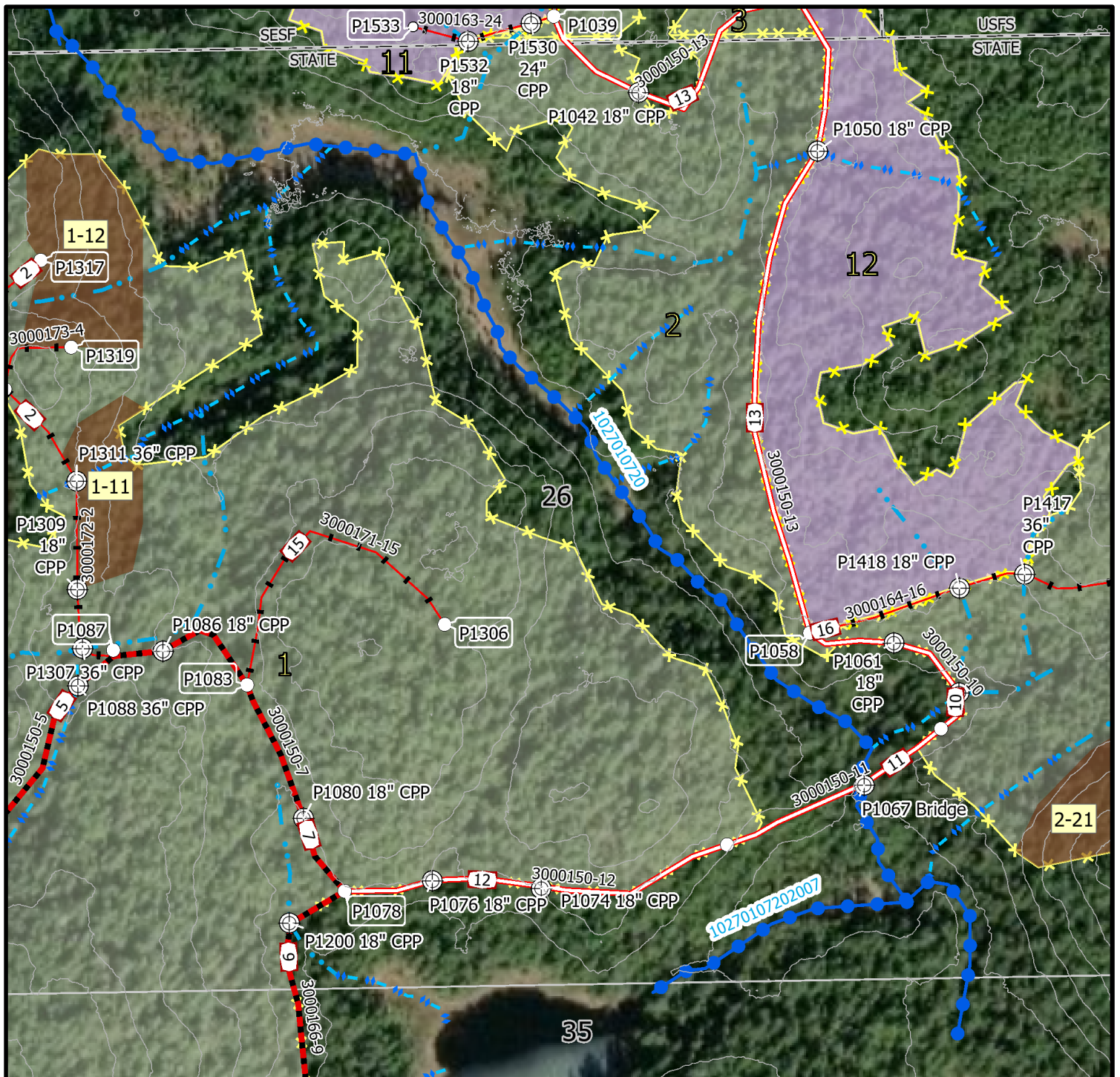
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|---|--|---|
| <ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> <li>Proposed Harvest Roads <ul style="list-style-type: none"> <li>Primary</li> <li>Secondary</li> <li>Spur</li> </ul> </li> <li>Proposed Drainage Structures</li> </ul> | <ul style="list-style-type: none"> <li>Existing Forest Roads <ul style="list-style-type: none"> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul> </li> <li>Existing SESF Road Features <ul style="list-style-type: none"> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>Changes <ul style="list-style-type: none"> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul> </li> <li>Streams <ul style="list-style-type: none"> <li>Anadromous</li> <li>Tributary to Anadromous ≤ 12%</li> <li>Tributary to Anadromous &gt; 12%</li> <li>Surface Waters</li> </ul> </li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul> |
|---|--|---|

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: E "Unit 3 South"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 26, 35.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

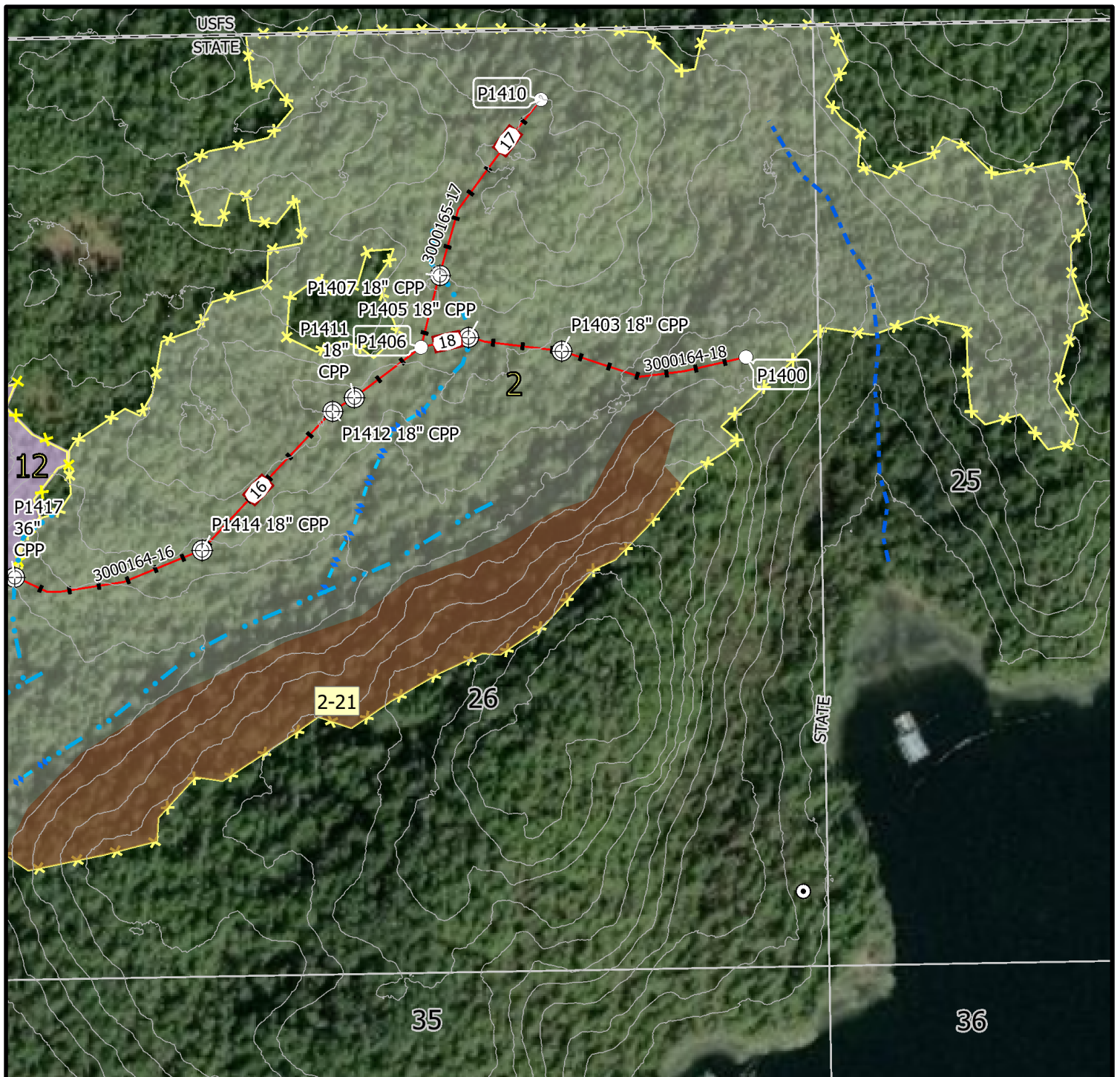
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| <ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> </ul>                      | <ul style="list-style-type: none"> <li>Existing Forest Roads</li> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul> | <ul style="list-style-type: none"> <li>Changes</li> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul>  |
| <ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul> | <ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>                               | <ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul> |

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: F "Unit 2 West"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 25, 26, 35, 36.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

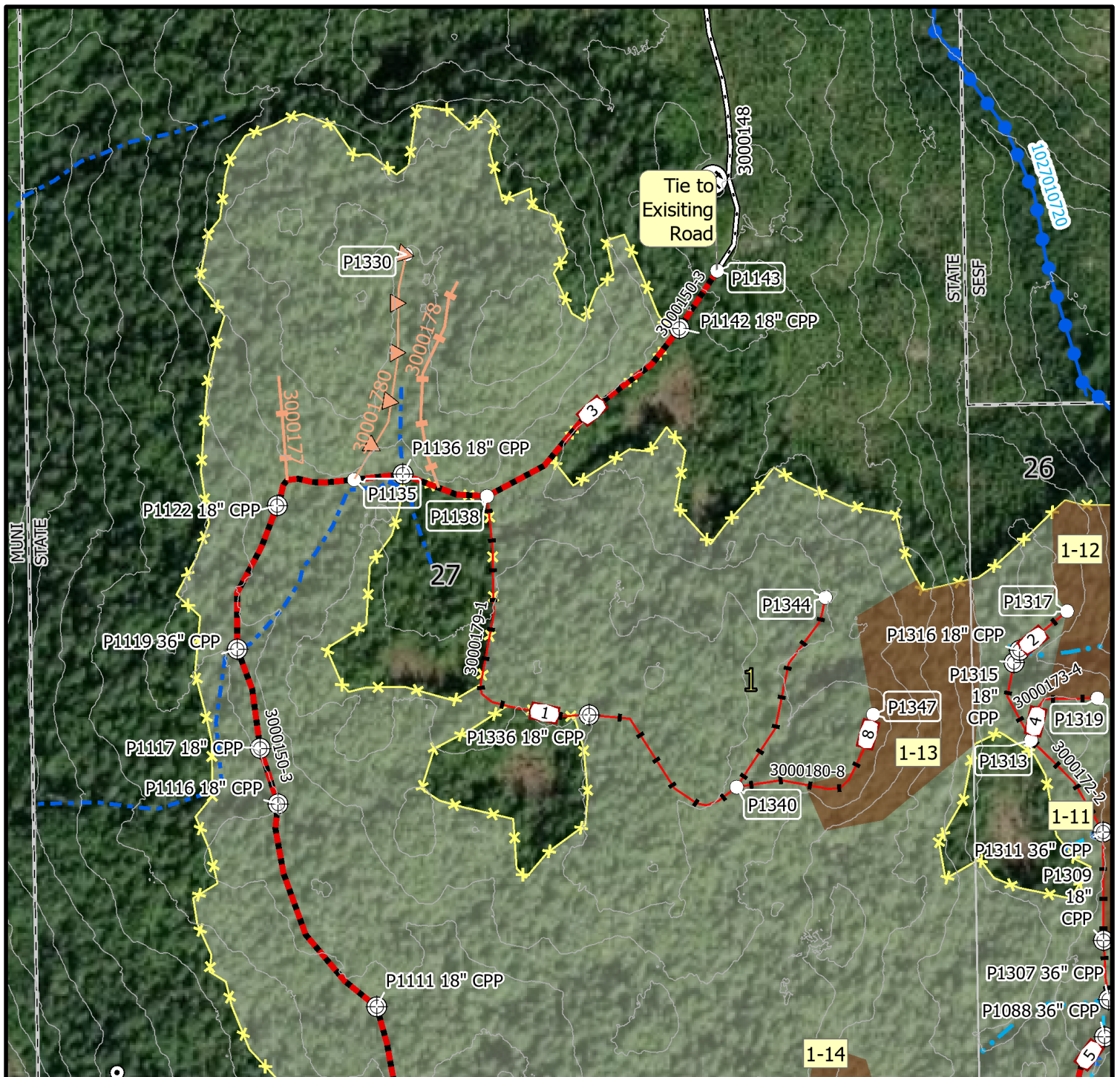
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| <ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> </ul>                      | <ul style="list-style-type: none"> <li>Existing Forest Roads</li> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul> | <ul style="list-style-type: none"> <li>Changes</li> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul>  |
| <ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul> | <ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>                               | <ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul> |

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: G "Unit 2 East"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 26, 27.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

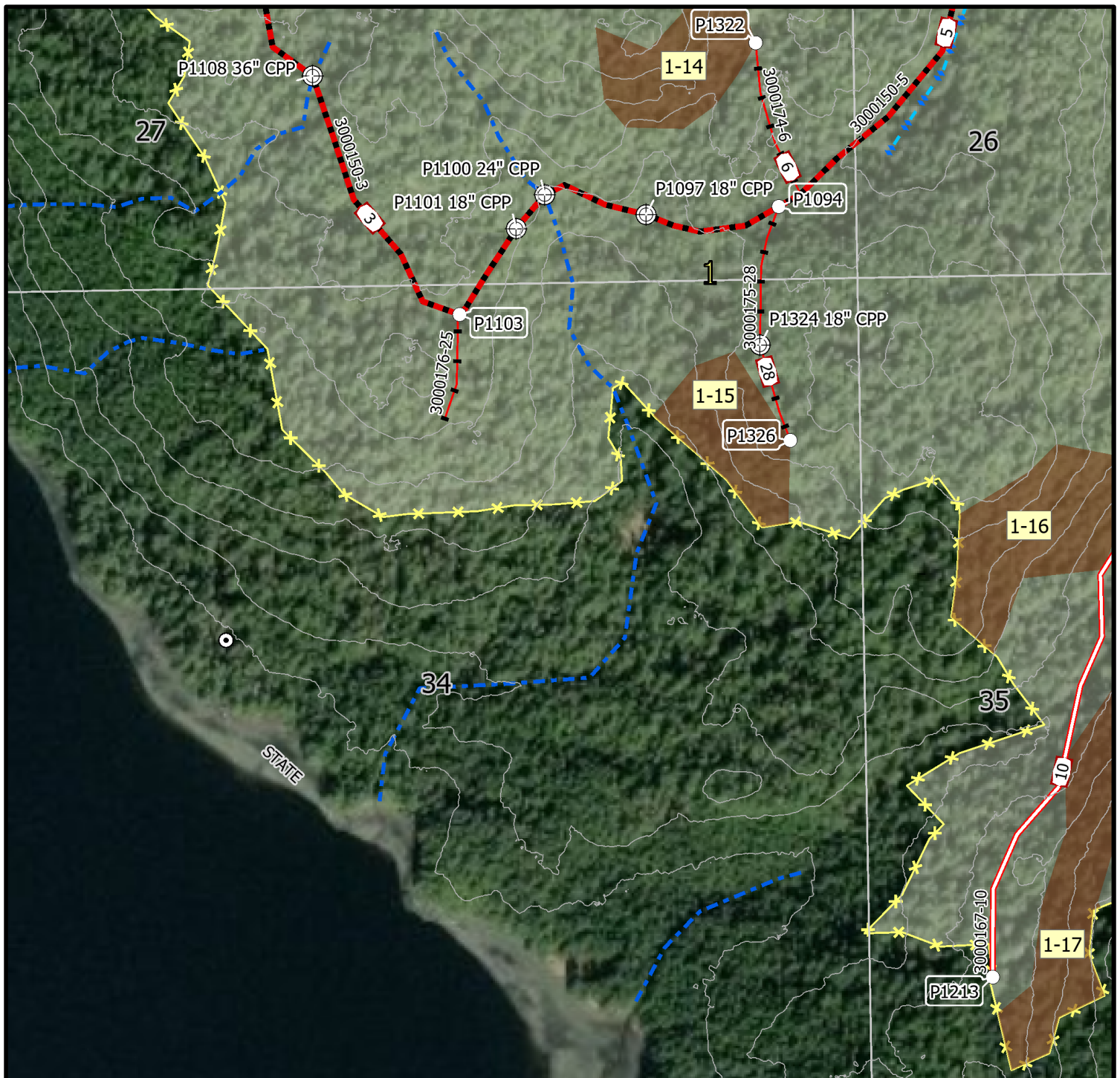
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<ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul>	<ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>	<ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul>

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: H "Unit 1 North"



DIVISION OF FORESTRY





0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 26, 27, 34, 35.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

## Legend

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> </ul>                      | <ul style="list-style-type: none"> <li>Existing Forest Roads</li> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul> | <ul style="list-style-type: none"> <li>Changes</li> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul>  |
| <ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul> | <ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>                               | <ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul> |

## APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: I "Unit 1 Middle"



DIVISION OF FORESTRY







0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 35.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> </ul>                      | <ul style="list-style-type: none"> <li>Existing Forest Roads</li> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul> | <ul style="list-style-type: none"> <li>Changes</li> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul>  |
| <ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul> | <ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>                               | <ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul> |

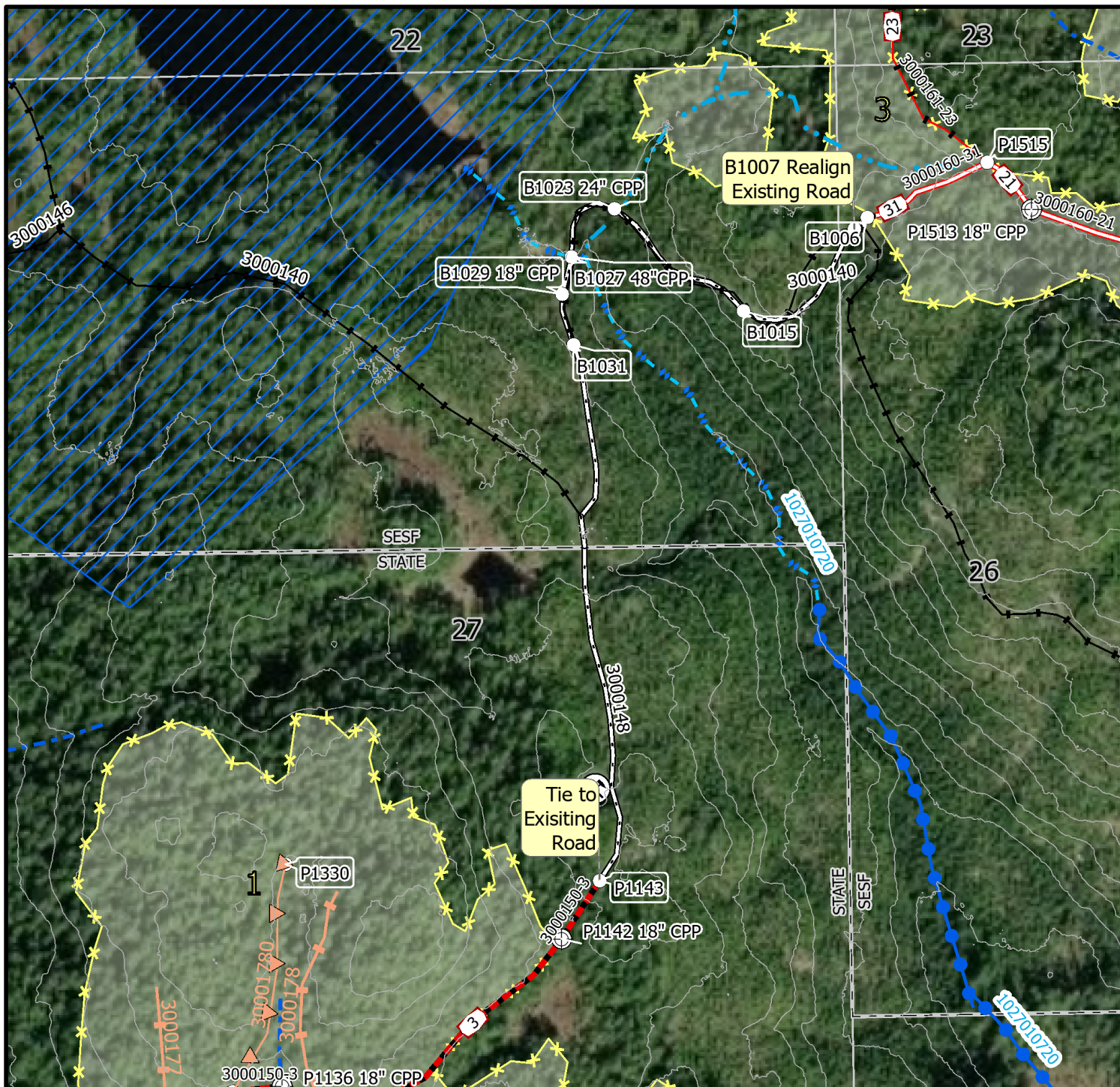
### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: J "Unit 1 South"



DIVISION OF FORESTRY







0 200 400 800 Feet  
1 inch = 400 feet

T71S, R84E; Section 26, 27.  
Copper River Meridian

Contour Interval = 40 feet  
Source: 2018 USFS LiDAR

### Legend

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>Proposed Timber Sale(s)</li> <li>Proposed Small Sale Areas</li> <li>Cable Logging Setting</li> </ul>                      | <ul style="list-style-type: none"> <li>Existing Forest Roads</li> <li>Active Primary</li> <li>Secondary (upgrade)</li> <li>Inactive Spur</li> <li>Closed</li> </ul> | <ul style="list-style-type: none"> <li>Changes</li> <li>Proposed Road to be removed</li> <li>Proposed Road to Add</li> </ul>  |
| <ul style="list-style-type: none"> <li>Proposed Harvest Roads</li> <li>Primary</li> <li>Secondary</li> <li>Spur</li> <li>Proposed Drainage Structures</li> </ul> | <ul style="list-style-type: none"> <li>Existing SESF Road Features</li> <li>Culvert</li> <li>Road Points</li> <li>Rock Pit</li> </ul>                               | <ul style="list-style-type: none"> <li>Streams</li> <li>Anadromous</li> <li>Tributary to Anadromous <math>\leq 12\%</math></li> <li>Tributary to Anadromous <math>&gt;12\%</math></li> <li>Surface Waters</li> <li>Thorne Bay Codified Watershed</li> <li>Eagle Nest</li> </ul> |

### APPENDIX A2 SSE-1369K Bay View Timber Sale Map Map Page: K "Unit 1 Access"



DIVISION OF FORESTRY

## **Appendix B: Supporting Information**

Note: Silvicultural and stand information has also been described in the previously published BIF.

### **Alaska Forest Practices and Regulations.**

<http://forestry.alaska.gov/forestpractices>

### **Forest Road and Bridge Standards.**

[http://forestry.alaska.gov/Assets/uploads/DNRPublic/forestry/pdfs/resources/forest\\_road\\_standard\\_design\\_20151231.pdf](http://forestry.alaska.gov/Assets/uploads/DNRPublic/forestry/pdfs/resources/forest_road_standard_design_20151231.pdf)

[http://forestry.alaska.gov/Assets/uploads/DNRPublic/forestry/pdfs/resources/forest\\_bridge\\_standard\\_design\\_20150128.pdf](http://forestry.alaska.gov/Assets/uploads/DNRPublic/forestry/pdfs/resources/forest_bridge_standard_design_20150128.pdf)

ADFG fish way permits (To be attached to FLUP as acquired).

- |              |                         |                        |
|--------------|-------------------------|------------------------|
| • Site M34   | AWC 1027010740          | Replacement Bridge     |
| • Site P1067 | AWC 1027010720          | New Bridge Alternative |
| • Site P1307 | Tributary to Anadromous | New Culvert            |

## **Appendix C: Appeal Statutes and Regulations**

Note: "Appeal" means a request to the commissioner to review a decision that the commissioner did not sign or cosign. "Request for reconsideration" means a petition or request to the commissioner to review an original decision that the commissioner signed or cosigned.

### Title 11.02 Appeals

#### TITLE 11. NATURAL RESOURCES.

##### CHAPTER 02. APPEALS.

###### Section

###### Section

10. Applicability and eligibility

50. Hearings

15. Combined decisions

60. Stays; exceptions

20. Finality of a decision for purposes of appeal to court

70. Waiver of procedural violations

30. Filing an appeal or request for reconsideration

80. (Repealed)

40. Timely filing; issuance of decision

900. Definitions

**11 AAC 02.010. APPLICABILITY AND ELIGIBILITY.** (a) This chapter sets out the administrative review procedure available to a person affected by a decision of the department. If a statute or a provision of this title prescribes a different procedure with respect to a particular decision, that procedure must be followed when it conflicts with this chapter.

(b) Unless a statute does not permit an appeal, an applicant is eligible to appeal or request reconsideration of the department's decision on the application. An applicant is eligible to participate in any appeal or request for reconsideration filed by any other eligible party.

(c) If a statute restricts eligibility to appeal or request reconsideration of a decision to those who have provided timely written comment or public hearing testimony on the decision, the department will give notice of that eligibility restriction as part of its public notice announcing the opportunity to comment.

(d) If the department gives public notice and allows a public comment period of at least 30 days on a proposed action, and if no statute requires opportunity for public comment, the department may restrict eligibility to appeal or request reconsideration to those who have provided timely written comment or public hearing testimony on the proposed action by including notice of the restriction as part of its public notice announcing the opportunity to comment.

(e) An eligible person affected by a decision of the department that the commissioner did not sign or cosign may appeal the decision to the commissioner within the period set by 11 AAC 02.040.

(f) An eligible person affected by a decision of the department that the commissioner signed or cosigned may request the commissioner's reconsideration within the period set by 11 AAC 02.040.

(g) A person may not both appeal and request reconsideration of a decision. (Eff. 11/7/90, Register 116; am 9/19/2001, Register 159)

Authority:	AS 03.05.010	AS 38.04.900	AS 38.08.110	AS 41.15.020	AS 44.37.011
	AS 29.65.050	AS 38.05.020	AS 38.09.110	AS 41.17.055	AS 46.15.020
	AS 29.65.120	AS 38.05.035	AS 38.50.160	AS 41.21.020	AS 46.17.030

**11 AAC 02.015. COMBINED DECISIONS.** (a) When the department issues a combined decision that is both a final disposal decision under AS 38.05.035(e) and any other decision, including a disposal decision combined with a land use plan decision, or a disposal decision to grant certain applications combined with a decision to deny others, the appeal process set out for a disposal decision in AS 38.05.035(i) - (m) and this chapter applies to the combined decision.

(b) A decision of the department may include a statement that a final consistency determination under AS 46.40 (Alaska Coastal Management Program) has been rendered in conjunction with the decision. A person may not, under this chapter, appeal or request reconsideration of the final consistency determination, including a requirement necessary solely to ensure the activity is consistent with the Alaska coastal management program as approved under AS 46.40. (Eff. 9/19/2001, Register 159)

Authority:	AS 29.65.050	AS 38.04.900	AS 38.05.035	AS 38.09.110
	AS 29.65.120	AS 38.05.020	AS 38.08.110	AS 38.50.160

**11 AAC 02.020. FINALITY OF A DECISION FOR PURPOSES OF APPEAL TO COURT.** (a) Unless otherwise provided in a statute or a provision of this title, an eligible person must first either appeal or request reconsideration of a decision in accordance with this chapter before appealing a decision to superior court.

(b) The commissioner's decision on appeal is the final administrative order and decision of the department for purposes of appeal to the superior court.

(c) The commissioner may order or deny a request for reconsideration within 30 calendar days after issuance of the decision, as determined under 11 AAC 02.040(c)-(e). If the commissioner takes no action during the 30-day period, the request for reconsideration is considered denied. Denial of a request for reconsideration is the final administrative order and decision of the department for purposes of appeal to the superior court.

(d) If the commissioner timely orders reconsideration of the decision, the commissioner may affirm the decision, issue a new or modified decision, or remand the matter to the director for further proceedings. The commissioner's decision, other than a remand decision, is the final administrative order and decision of the department for purposes of appeal to the superior court. (Eff. 11/7/90, Register 116; am 9/19/2001, Register 159)

Authority:	AS 03.05.010	AS 38.04.900	AS 38.08.110	AS 41.15.020	AS 44.37.011
	AS 29.65.050	AS 38.05.020	AS 38.09.110	AS 41.17.055	AS 46.15.020
	AS 29.65.120	AS 38.05.035	AS 38.50.160	AS 41.21.020	AS 46.17.030

**11 AAC 02.030. FILING AN APPEAL OR REQUEST FOR RECONSIDERATION.** (a) An appeal or request for reconsideration under this chapter must

(1) be in writing;

(2) be filed by personal service, mail, fax, or electronic mail;

(3) be signed by the appellant or the appellant's attorney, unless filed by electronic mail; an appeal or request for reconsideration filed by electronic mail must state the name of the person appealing or requesting reconsideration and a single point of contact to which any notice or decision concerning the appeal or request for reconsideration is to be sent;

(4) be correctly addressed;

(5) be timely filed in accordance with 11 AAC 02.040;

- (6) specify the case reference number used by the department, if any;
- (7) specify the decision being appealed or for which reconsideration is being requested;
- (8) specify the basis upon which the decision is challenged;
- (9) specify any material facts disputed by the appellant;
- (10) specify the remedy requested by the appellant;

(11) state the address to which any notice or decision concerning the appeal or request for reconsideration is to be mailed; an appellant may also provide a telephone number where the appellant can be reached during the day or an electronic mail address; an appeal or request for reconsideration filed electronically must state a single address to which any notice or decision concerning the appeal or request for reconsideration is to be mailed;

(12) identify any other affected agreement, contract, lease, permit, or application by case reference number, if any;

(13) include a request for an oral hearing, if desired; in the appeal or request for reconsideration, the appellant may include a request for any special procedures to be used at the hearing; the appeal or request for reconsideration must describe the factual issues to be considered at the hearing, and

(14) be accompanied by the applicable fee set out in 11AAC 05.160. (Eff 11/7/90, Register 116; am 9/19/2001, Register 159; am 7/01/2018, Register 227).

(b) At the time an appeal is filed, and up until the deadline set out in 11 AAC 02.040(a) to file the appeal, an appellant may submit additional written material in support of the appeal, including evidence or legal argument.

(c) If public notice announcing a comment period of at least 30 days was given before the decision, an appellant may not submit additional written material after the deadline for filing the appeal, unless the appeal meets the requirement of (a) of this section and includes a request for an extension of time, and the department determines that the appellant has shown good cause for an extension. In considering whether the appellant has shown good cause, the department will consider factors including one or more of the following:

- (1) comments already received from the appellant and others;
- (2) whether the additional material is likely to affect the outcome of the appeal;
- (3) whether the additional material could reasonably have been submitted without an extension;
- (4) the length of the extension requested;
- (5) the potential effect of delay if an extension is granted.

(d) If public notice announcing a comment period of at least 30 days was not given before the decision, an appellant may submit additional written material after the deadline for filing the appeal, if the appeal meets the requirements of (a) of this section and includes a notice of intent to file the additional written material. The department must receive the additional written material within 20 days after the deadline for filing the appeal, unless the appeal also includes a request for an extension of time, and the department determines that the appellant has shown good cause for an extension. In considering whether the appellant has shown good cause, the department will consider factors including one or more of the following:

- (1) comments already received from the appellant and others;



- (2) whether the additional material is likely to affect the outcome of the appeal;
- (3) whether the additional material could reasonably have been submitted without an extension;
- (4) the length of the extension requested;
- (5) the potential effect of delay if an extension is granted.

(e) At the time a request for reconsideration is filed, and up until the deadline to file a request for reconsideration, an appellant may submit additional written material in support of the request for reconsideration, including evidence or legal argument. No additional written material may be submitted after the deadline for filing the request for reconsideration.

(f) If the decision is one described in 11 AAC 02.060(c), an appellant who believes a stay of the decision is justified may ask for a stay as part of the appeal or request for reconsideration. The appellant must include an argument as to why the public interest requires a stay. (Eff. 11/7/90, Register 116; am 9/19/2001, Register 159)

Authority:	AS 03.05.010	AS 38.04.900	AS 38.08.110	AS 41.15.020	AS 44.37.011
	AS 29.65.050	AS 38.05.020	AS 38.09.110	AS 41.17.055	AS 46.15.020
	AS 29.65.120	AS 38.05.035	AS 38.50.160	AS 41.21.020	AS 46.17.030
	AS 37.10.050				

**Editor's note:** The address for an appeal or request for reconsideration by personal service and by mail is: Department of Natural Resources, Commissioner's Office, 550 W. 7<sup>th</sup> Avenue, Suite 1400, Anchorage, Alaska 99501-3561. The number for an appeal or request for reconsideration by fax is: 1-907-269-8918. The electronic mailing address for an appeal or request for reconsideration by electronic mail is: [dnr\\_appeals@dnr.state.ak.us](mailto:dnr_appeals@dnr.state.ak.us)

**11 AAC 02.040. TIMELY FILING; ISSUANCE OF DECISION.** (a) To be timely filed, an appeal or request for reconsideration must be received by the commissioner's office within 20 calendar days after issuance of the decision, as determined under (c) or (d) of this section, unless another period is set by statute, regulation, or existing contract. If the 20th day falls on a day when the department is officially closed, the appeal or request for reconsideration must be filed by the next working day.

(b) An appeal or request for reconsideration will not be accepted if it is not timely filed.

(c) If the appellant is a person to whom the department delivers a decision by personal service or by certified mail, return receipt requested, issuance occurs when the addressee or the addressee's agent signs for the decision. If the addressee or the addressee's agent neglects or refuses to sign for the certified mail, or if the address that the addressee provided to the department is not correct, issuance by certified mail occurs when the decision is deposited in a United States general or branch post office, enclosed in a postage-paid wrapper or envelope, addressed to the person's current address of record with the department, or to the address specified by the appellant under 11 AAC 02.030(a)(11).

(d) If the appellant is a person to whom the department did not deliver a decision by personal service or certified mail, issuance occurs

(1) when the department gives public notice of the decision; or

(2) if no public notice is given, when the decision is signed; however, the department may state in the decision a later date of issuance and the corresponding due date for any appeal or request for reconsideration.

(e) The date of issuance constitutes delivery or mailing for purposes of a reconsideration request under AS 44.37.011(d) or AS 44.62.540(a). (Eff. 11/7/90, Register 116; am 9/19/2001, Register 159)

Authority:	AS 03.05.010	AS 38.04.900	AS 38.08.110	AS 41.15.020	AS 44.37.011
	AS 29.65.050	AS 38.05.020	AS 38.09.110	AS 41.17.055	AS 46.15.020
	AS 29.65.120	AS 38.05.035	AS 38.50.160	AS 41.21.020	AS 46.17.030

**11 AAC 02.050. HEARINGS.** (a) The department will, in its discretion, hold a hearing when questions of fact must be resolved.

(b) The hearing procedure will be determined by the department on a case-by-case basis. As provided in 11 AAC 02.030(a)(13), any request for special procedures must be included with the request for a hearing.

(c) In a hearing held under this section

(1) formal rules of evidence need not apply; and

(2) the hearing will be recorded, and may be transcribed at the request and expense of the party requesting the transcript. (Eff. 11/7/90, Register 116)

Authority:	AS 03.05.010	AS 38.04.900	AS 38.09.110	AS 41.17.055	AS 46.17.030
	AS 29.65.050	AS 38.05.020	AS 38.50.160	AS 41.21.020	
	AS 29.65.120	AS 38.08.110	AS 41.15.020	AS 46.15.020	

**11 AAC 02.060. STAYS; EXCEPTIONS.** (a) Except as provided in (c) and (d) of this section, timely appealing or requesting reconsideration of a decision in accordance with this chapter stays the decision during the commissioner's consideration of the appeal or request for reconsideration. If the commissioner determines that the public interest requires removal of the stay, the commissioner will remove the stay and allow all or part of the decision to take effect on the date set in the decision or a date set by the commissioner.

(b) Repealed 9/19/2001.

(c) Unless otherwise provided, in a statute or a provision of this title, a decision takes effect immediately if it is a decision to

(1) issue a permit, that is revocable at will;

(2) approve surface operations for a disposal that has already occurred or a property right that has already vested; or

(3) administer an issued oil and gas lease or license, or an oil and gas unit agreement.

(d) Timely appealing or requesting reconsideration of a decision described in (c) of this section does not automatically stay the decision. However, the commissioner will impose a stay, on the commissioner's own motion or at the request of an appellant, if the commissioner determines that the public interest requires it.

(e) A decision takes effect immediately if no party is eligible to appeal or request reconsideration and the commissioner waives the commissioner's right to review or reconsider the decision. (Eff. 11/7/90, Register 116; am 9/19/2001, Register 159)

Authority:	AS 03.05.010	AS 38.04.900	AS 38.08.110	AS 41.15.020	AS 46.15.020
	AS 29.65.050	AS 38.05.020	AS 38.09.110	AS 41.17.055	AS 46.17.030
	AS 29.65.120	AS 38.05.035	AS 38.50.160	AS 41.21.020	

**11 AAC 02.070. WAIVER OF PROCEDURAL VIOLATIONS.** The commissioner may, to the extent allowed by applicable law, waive a requirement of this chapter if the public interest or the interests of justice so require. (Eff. 11/7/90, Register 116; am 9/19/2001, Register 159)

Authority:	AS 03.05.010	AS 29.65.120	AS 38.05.035	AS 38.50.160	AS 41.21.020
	AS 03.10.020	AS 38.04.900	AS 38.08.110	AS 41.15.020	AS 46.15.020
	AS 29.65.050	AS 38.05.020	AS 38.09.110	AS 41.17.055	AS 46.17.030

**11 AAC 02.080. DEFINITIONS.** Repealed. (Eff. 11/7/90, Register 116; repealed 9/19/2001, Register 159)

**Editor's note:** The subject matter formerly set out at 11 AAC 02.080 has been moved to 11 AAC 02.900.

**11 AAC 02.900. DEFINITIONS.** In this chapter,

(1) "appeal" means a request to the commissioner to review a decision that the commissioner did not sign or cosign;

(2) "appellant" means a person who files an appeal or a request for reconsideration.

(3) "commissioner" means the commissioner of natural resources;

(4) "decision" means a written discretionary or factual determination by the department specifying the details of the action to be allowed or taken;

(5) "department" means, depending of the particular context in which the term is used, the Department of Natural Resources, the commissioner, the director of a division within the Department of Natural Resources, or an authorized employee of the Department of Natural Resources;

(6) "request for reconsideration" means a petition or request to the commissioner to review an original decision that the commissioner signed or cosigned. (Eff. 11/7/90, Register 116; am 9/19/2001, Register 159)

Authority:	AS 03.05.010	AS 38.05.020	AS 38.09.110	AS 41.17.055	AS 44.62.540
	AS 29.65.050	AS 38.05.035	AS 38.50.160	AS 41.21.020	AS 46.15.020
	AS 29.65.120	AS 38.08.110	AS 41.15.020	AS 44.37.011	AS 46.17.030
	AS 38.04.900				

**Editor's note:** The subject matter of 11 AAC 02.900 was formerly located at 11 AAC 02.080. The history note for 11 AAC 02.900 does not reflect the history of the earlier section.

## **Appendix D: DRAFT FLUP Public Comment**

## Comments.

# SSE-1369-K, Bay View Timber Sale Forest Land Use Plan (FLUP) Comments & Responses

Department of Natural Resources, Division of Forestry  
June, 2020

The following comments were received during the public comment period on the Bay View Timber Sale FLUP.

Organization	Author	Location
	Lauren Burch	Thorne Bay
	David Egelston	Thorne Bay
	Karen Peterson	Thorne Bay
	Priscilla Goulding	Thorne Bay
	Jim Baichtal	Thorne Bay
Viking Lumber Company, Inc.	Clarence Clark	Craig
Alaska Dept. of Fish and Game	Mark Minnillo	Craig

Copies of the submitted comments are available upon request.

Commenter	Comment	Response
	<b>Suitability of the Harvest Area/ Habitat</b>	
Lauren Burch	"My first choice is for the timber sale not to take place at all... why not reserve some [old growth] for future generations?... Animals and birds occupying this area will have their habitat removed."	Compatibility of different uses such as wildlife habit and forest management were considered in the area plans when management intent was established for the land base. The decision to harvest timber in this specific area referenced the area plan and was made in the Best Interest Finding. ADFG Habitat was consulted regarding retaining important site specific habitat for fish and wildlife during sale planning. Retention areas were assigned for important anadromous fish, bear, wolf, and bald eagle habitat.
Priscilla Goulding	"My first choice is for the timber sale not to take place at all... why not reserve some [old growth] for future generations?... Animals and birds occupying this area will have their habitat removed."	
Mark Minnillo (ADFG)	ADF&G appreciates the incorporation of measures to protect wolf and black bear denning in the area.	Comment noted, no action required.
Clarence Clark (VLC)	<b>Section III. G. Wildlife Habitat</b> - The DFLUP states that operations will need to make noise reduction adjustments if a wolf den in the area is determined to be active. Such adjustments could limit operations for a period of four months each year.	Not all the sale area is subject to the restriction. The restriction is contingent on verified active denning. The FLUP has been updated to indicate the portions of the timber sale that may incur noise restrictions.
	<b>COVID-19 Concern</b>	
Karen Petersen	"... with the COVID Pandemic I am not sure this is a good year to bring a crew of loggers into the community anyway. ... I request that due to the COVID Pandemic that this sale be held back at least a year."	<p>The Governor indicated that logging activities were part of Alaska's critical workforce and manufacturing, in his Alaska Essential Services and Critical Workforce Infrastructure Order, Issued March 27, 2020 and amended April 10 and May 5, reading, in part:</p> <p>"ii. "Critical Infrastructure," which includes:</p> <ol style="list-style-type: none"> <li>1. Public Works, including businesses providing any services or performing any work necessary to the operations and maintenance of public works, such as the Port of Alaska, public works construction, airport operations, water, sewer, gas, electrical, oil production, mining, <u>logging</u>, roads and highways, public transportation, and solid waste collection and removal</li> <li>5. Critical Manufacturing, including manufacture of products needed for medical supply chains and supply chains associated with transportation, energy, communications, information technology, food and agriculture, chemical manufacturing, <u>wood products</u>,</li> </ol>

Commenter	Comment	Response
		<p>commodities used as fuel for power generation facilities, operation of dams, water and wastewater treatment, processing of solid waste, emergency services, and defense...”</p> <p>The Division of Forestry has prepared a COVID-19 Handbook (available on <a href="#">DOF's COVID website</a>). Employees must follow mitigation procedures, and DOF will discuss mitigation measures with contractors to make sure they are acting responsibly in the community to mitigate the opportunities for anyone to be exposed to COVID.</p>
	<b>Bid Process/ Size of Units</b>	
Lauren Burch	“create a bid process encouraging small operators. This requires breaking it into smaller sales.... Structuring the sale so that it only benefits Viking Lumber does nothing for the local economy.”	<p>The method of sale is outlined in the BIF:</p> <p>“The DOF proposes to sell the commercial timber in one or more negotiated sales under provisions of AS 38.05.115 or AS 38.05.118. The AS 38.05.115 authority will be used for sales less than 500 MBF while AS 38.05.118 will be used for sales greater than 500 MBF.</p> <p>Negotiated timber sale methods have been chosen because of the State’s interest in encouraging employment on POW by processing as much of the timber locally as feasible. The AS 38.05.123 (high value added) process was listed as a possible method of sale in the Preliminary Best Interest Finding; because the DOF received no comment requesting the timber to be sold using the distinct requirements of the AS 38.05.123, it is focusing on using the AS 38.05.115 and .118 authority. The sale will be noticed as required by sale type authority per AS 38.05.945 prior to being sold. The DOF has received interest in the timber from several mills, consequently the DOF will use its typical request for proposal process (RFP) to determine the specific purchaser(s) with whom to negotiate. The RFP process will consider the track record of the purchaser to locally manufacture wood products (AS 38.05.118), the proposed quantity of value added wood products to be produced, the projected payroll associated with processing the sale, and the proposed stumpage rates.</p> <p>Selling the timber in an open and competitive manner using the AS 38.05.120 authority in Southeast Alaska would likely generate higher stumpage revenue to the State. Purchasers of competitive sales typically use the</p>
Priscilla Goulding	<p>“First, I would like to see an open bid process allowing small operators to participate in the process. What we often see on our island is log trucks hauling to Viking Lumber in Klawock. If the timber is cut here, let it stay here and benefit the local community.”</p> <p>“Second, I would advocate for the parcels being divided into smaller pieces, again allowing Thorne Bay locals who operate mills and timber falling operations to benefit from the sale, keeping money in our community.”</p>	
David Egelston	“I have also been told that this project may not be open to competitive bidding. I am hopeful that is misinformation. To sell the state’s resources without getting the best price is not only wasteful, but is a great disservice to all of the state residents.”	
Jim Baichtal	“You state that, ‘The sale(s) will require in-state manufacture and will be negotiated contract(s).’ I still believe that the timber sale should be designed to give all potential purchasers a fair and equitable chance at this timber harvest, disposing of the timber sale as an open bid not a negotiated contract.”	
Karen Petersen	Finally – we need an open bid process for this timber sale. There are many small saw mills in the Community of Thorne Bay, and they rely on a timber base that is close to the community. These mills are a vital part of the community by providing jobs and paying sales tax. This timber sale could provide many years of timber for these mills, bringing some stability to the industry. That said, by offering this timber sale in a number of smaller sales to ALL Alaskan Timber processors is the fairest way to sell this timber. I would like to suggest that the sale be divided into smaller sales ranging from one hundred thousand board feet to one million board feet. This can be done by working in collaboration with the City of Thorne Bay, and perhaps the City could administer the sales on behalf of the State so that the State does not have to allocate limited resources to an employee to this administration.	

Commenter	Comment	Response
	<p>...“There is also a lack of clarity on exactly how this timber sale will be harvested, and why it needs to be a negotiated sale.”</p>	<p>round log export market and obtain higher returns on their investment. A competitive sale using the AS.05.120 authority could not be constrained through contract language to use local mills as much as feasible.”</p> <p>A discussion on sale scale, timing and requested configurations is made on Page 21 of the BIF.</p>
	<p><b>Marketing of the Timber</b></p>	
<p>Lauren Burch</p>	<p>“Supporting Viking Lumber is simply an illusion. They are doing nothing to move into second growth use or updating their operation. It is clear that when they exhaust old growth on the island they will disappear... Selling that timber in Asia does nothing for Alaska.”</p>	<p>The State has sold timber to Viking Lumber in the past because significant and defined amounts of timber are sawn in the Klawock mill. Some of the timber is exported in the round log form when agreed to ahead of time in the contract as part of the negotiation process. Viking has made the case in the past that they are selling logs that they are not able to feasibly mill in their Klawock facility based on typical or specific market conditions. Other local sawmill operators have similar issues with the log species and sizes. The small diameter spruce and hemlock less than 18” in diameter typically have a break-even or loss value relative to the cost of getting it to a mill. This makes it challenging to make a profit overall, and subjects a significant amount of the wood to the vagaries of a tight commodity market. Some small mill operators on the island have also used the round log export market option, when available, to minimize exposure to the market risk. This allows mill operators to focus on the capabilities and specialties required of the larger wood and other more valuable species (cedar). While the biofuels market is increasing (firewood, bricks, etc.), it does not yet replace the export market of the small logs in value or quantity.</p>



Commenter	Comment	Response
	<b>Roads/ Access</b>	
Priscilla Goulding	<p>“And third, I have some major concerns about the use of the Bypass Road in Thorne Bay. This happens to be the road I live off and is the main access to my lane. I do not want to have log trucks going by 5 days a week. The noise and degradation of the road and the danger it will pose to the many residents who regularly walk this peaceful byway are all very disturbing factors to me and probably many other residents of Thorne Bay who are not even aware of this timber sale.”</p>	<p>The City of Thorne Bay constructed the Bypass Road in part to move through traffic away from the section of the Sandy Beach Road that passed by the school. The road is managed by the City of Thorne Bay. Conversation with the City Manager in 2019 indicated that use by timber purchasers hauling logs has been safely accommodated in the past. The significant users (timber purchasers) have replaced surface rock and graded the road and assisted the City in maintaining its condition for all users. The Bay View Timber Sale will include these maintenance costs, and road maintenance will be a requirement of the timber sale contract(s).</p>
David Egelston	<p>“... the proposal to hook the logging roads associated with the cut to our existing Shoreline Drive is completely unacceptable. Shoreline Drive is a narrow road with a one lane bridge incorporated in it. As an assistant fire chief here I have concerns with the existing traffic on the dead end road for the movement of emergency vehicles. The thought of having over a one hundred fold increase of traffic on that road is unfathomable. I am wondering if the Department of Transportation has been involved in this project.</p> <p>“The original plan was to take the logging trucks out an existing road to the north of town... Now I am being told that the intent is to put a road through our sewer treatment plant property to connect to Shoreline Drive anyway.”</p>	<p>Hauling of logs on Shoreline Drive is not proposed by DOF. The construction of the access road to the Shoreline Drive area is not part of the timber sale development. The proposed future tie to Shoreline Drive illustrated in the BIF and draft FLUP was a concept for public access to the Settlement classified area in the future. Development of a feasible route in the future should consider a variety of issues beyond the scope of the timber sale. The City conveyed that it is not interested in providing an easement for that route. DNR has thus removed it from the FLUP timber sale map to mitigate confusion.</p>
Jim Baichtal	<p>“The Final Best Interest Finding and Decision for the Bay View Timber Sale still shows a road being constructed as an extension of Shoreline Drive passing the Wastewater Treatment Facility. The City of Thorne Bay has repeatedly told you this will not happen. Upgrades to Shoreline Drive and the cost of such a road is beyond what Thorne Bay could financially handle. Since this road would not be built you need not extend your proposed harvest road 3000176- 25 to the point shown on the map in the draft FLUP. In fact, you should not construct this road at all and drop that setting further protecting our view shed.”</p>	<p>Project consultation with ADOT concerning the route was not required or undertaken.</p> <p>The 30000176-25 Road harvest setting, and the spur have been reduced based on the input of the City and the DMLW (see the adopted FLUP maps).</p>
Karen Petersen	<p>“One of my concerns is that there is still an access road showing through the municipal sewer treatment plant.”</p>	
Jim Baichtal	<p>“In the FLUP you make two confusing statements. ‘Roads constructed for the timber sale that are left open will be subject to maintenance standards under 11 AAC 95.315. Otherwise, roads constructed for the timber sale will be closed, subject to standards under 11 AAC 95.320.’; and ‘The DOF will close all timber sale roads upon completion of harvest unless a road management agreement is in place with a recognized entity that meets the approval of the DNR.’ It appears that the intent is to close the road upon completion of the harvest making access a mute point.”</p>	<p>Leaving roads open is contingent upon adequate maintenance plans and agreements. The DOF will maintain harvest roads within the SESF for silvicultural purposes. The DMLW is the land manager for all other lands in the timber sale area. The statement is intended to invoke dialog with stakeholders. The DMLW has also expressed an interest for public access and settlement planning purposes, but has no funding resources to maintain roads. The DOF, as the forest resource manager,</p>

Commenter	Comment	Response
		will default to closing these roads, unless the DMLW or another entity, in coordination with the DMLW, commits to maintaining them. This is consistent with DOF's obligation to avoid and minimize water quality impacts associated with its timber sale program. The DOF will also keep other roads delineated in the FLUP Road Closure table open for short periods of time to facilitate firewood salvage or other objectives if funding is available in its budget.
	<b>Roads (continued)</b>	
Mark Minnillo (ADFG)	According to the FLUP, the timber sale purchaser will be responsible for all road maintenance during timber harvest. Who will be responsible for road maintenance of any roads left open after timber harvest is complete?	Forest road maintenance after the timber sale is completed is the responsibility of the DOF, unless another authority has assumed it.
	<b>Viewshed</b>	
David Egelston	"As a community that is funded mainly by sales tax and lodging fees, we depend heavily on tourism to keep our second class city functioning... Creating an eye sore caused by a large clear cut for visitors to see when they arrive in our city would be detrimental to continued visitation. As well, it would be something that local residents on both side of our bay would have to look at for years."	This subject was addressed in the BIF, no change made to the draft FLUP.
Jim Baichtal	"I appreciate that you have given some consideration to the visual effects of the proposed harvest modifying some of the unit boundaries. However, I am of the opinion that the timber sale still needs to be pulled back from the ridge above the entrance to the bay and the first bight northeast of the main Thorne Bay in sections 34 and 35. Thorne Bay's economy, the livelihoods of our citizens, and the recreation and visitor-based industry are highly dependent on a natural setting surrounding the community. I do not believe you or the State have adequately addressed this in your decisions."	
	<b>Clarification</b>	
Karen Petersen	<p>"There is some confusion in Thorne Bay regarding the comment period for this Timber Sale with two "Final Best Interest Finding and Decision for the Bay View Timber Sale (SSE-1369K)" that seem to have been published with two different comment periods.</p> <p>I had written previously to Greg Staunton regarding my concerns about this sale for several reasons: the impact to the Thorne Bay Municipal Watershed and drinking water quality; the negative impact this will have on the viewshed for the City of Thorne Bay and the visitor industry here; and finally for the very little public input that was solicited for this sale."</p>	<p>See Section IV Scope of Decision in the BIF for an outline of the planning process and past opportunities for public comment. The DOF provided two 30 day comment periods associated with the specific project during:</p> <ol style="list-style-type: none"> <li>1. Best Interest Finding: Public Comment is solicited during preliminary BIF.</li> <li>2. Forest Land Use Plan: Public Comment is solicited during drafting of the FLUP.</li> </ol> <p>We also took an extended amount of time beyond those periods to understand the issues and conducted several</p>

Commenter	Comment	Response
		public meetings to the discuss project. Comments during these designated times and meetings have been incorporated into the record.
	<b>Subdivision/ Residential Development Impacts</b>	
David Egelston	<p>“One of the biggest problems Thorne Bay currently has involves the infrastructure on the south side of the city. Years ago the state sold off building lots there after logging. The roads that were created were fine for hauling logs, but were not built to any kind of specifications for highways. People bought lots and want to drive to and from them. The state owns the roads but does not maintain them. The city of Thorne Bay has tried its best to maintain them, using almost all of the funds budgeted for roads on the south side. Still, the roads are rough and many of the people who travel them are not happy. They blame the city officials for failing them. Actually, it was the State of Alaska that failed them and continues to...”</p> <p>“The state is planning to come in and sell the trees that will be hauled out on substandard road, then sell lots to people wanting to build on them. Those people will want to have quality roads to drive on. They won’t get them and then they will blame the city administrator, the mayor, and the city council. The “state” will get a few letters but otherwise will be isolated from the decades of problems to follow.”</p>	This subject was addressed in the BIF, no change made in the draft FLUP.
Karen Petersen	<p>“There is no consideration given for the impact on the community of Thorne Bay regarding the addition of more residential property.</p> <p>The proposed timber sale will build new roads as puncheon covered with gravel and these are not built to municipal standards. They will then turn these roads over to the City after the timber sale. The City of Thorne Bay already has more miles of road to maintain than they have funding for, and they do not need to inherit more poorly constructed road with this process. I do not think this is cost effective, and by working with the City perhaps a better plan could be developed.”</p>	This subject was addressed in the BIF, no change made in the FLUP. The DMLW has committed to working with the City of Thorne Bay as the local platting authority when they move forward with the survey and subdivision process.
	<b>Participation of City of Thorne Bay/ Planning and Zoning Commission:</b>	
Jim Baichtal	<p>“I hope you fully consider all provisions in the City of Thorne Bay's, Planning and Zoning Resolution 20-03-09-01 PZ and the City's Resolution 20-04-07-01.”</p> <p>Excerpt from Planning and Zoning Resolution 20-03-09-01:</p> <p>“NOW, THEREFORE, BE IT RESOLVED, The City of Thorne Bay supports a modification to the Bay View Timber Sale to protect the viewshed of the community and entrance to the Bay; and</p>	These subjects have been addressed in the BIF, no change made in the draft FLUP.

Commenter	Comment	Response
	<p>BE IT FURTHER RESOLVED, access to the proposed subdivision should be along State logging roads and the Sandy Beach Road (USFS 3000 RD) on the Prince of Wales road system; and,</p> <p>BE IT FURTHER RESOLVED, that roads proposed to access the Bay View Timber Sale and subsequent subdivision be constructed to residential standards and grades; and,</p> <p>BE IT FURTHER RESOLVED, that accessing the new subdivision by an extension of Shoreline Drive does not meet ADEC guidelines; and,</p> <p>BE IT FINALLY RESOLVED, that the City of Thorne Bay encourages the State of Alaska, DOF to openly advertise the sale of timber from the Bay View Timber Sale to all sawmill operators by competitive bid, not by negotiated sale.”</p>	
Karen Petersen	“I request that the State work with the City on the final planning of this Timber Sale”	
	<b>Technical Comments/ Questions (FLUP related questions)</b>	
Clarence Clark (VLC)	<b>Introduction</b> - The DFLUP provides an acreage amount that is covered by the document but not an estimate of volume that will be harvested on that acreage. The amount of acreage involved changes from the Preliminary Best Interest Finding for the project to the Best Interest Finding Decision document, but the estimated volume did not change. The DFLUP should provide an estimate of volume that will be harvested on that acreage shown in the DFLUP.	Volume estimates were provided based on the application of best available information. The estimates provided in the BIF were based on the acres that may be available. They are dependent on the management considerations of other resources and the final sale configuration. The information developed on the timber stands in the timber cruise contributed to the final BIF estimate given.
Clarence Clark (VLC)	<p><b>Operational Period</b> – The timeframe included in this section may be insufficient to support a project of this size. The DFLUP proposes offering multiple timber sales using the same road system. Operational considerations could prevent the timber sales from being completed during the approximate five-year timeframe. The time that it will take for the purchaser to construct the needed road system and harvest the timber may take longer than the proposed operational period.</p> <p><b>Section III. G. Wildlife Habitat</b> - The DFLUP states that operations will need to make noise reduction adjustments if a wolf den in the area is determined to be active. Such adjustments could limit operations for a period of four months each year. If the den is active every year, the adjustment to operations approximate nearly one third of the operational period. Please consider extending the Operational Period for the FLUP to reflect this possibility.</p> <p>“...Projected road closure timeframes for many of the roads appear to be outside of the operational period of the DFLUP. Is this appropriate or will the DOF need to write another Forest Land Use Plan (FLUP) in the future?”</p>	<p>The operational period cited in the FLUP of five years is based in part on past contract implementation. The modification of the timeframe of the FLUP could be amended to reflect activity still within scope and relevance of the BIF. The proposed contract timeframe for the timber harvest will be covered by the FLUP. Regardless, the DOF will keep the FLUP relevant during active operations.</p> <p>The restrictions due to wolf denning may complicate operations. The specific location of the den is restricted information (per ADFG). The DOF has listed the road segments that may see activity restrictions in IIIG. The net effect of the restrictions on operations at this point are hypothetical. Activity on timber sales can also be influenced by other factors. The DOF will work to provide an adequate performance period in the contract to develop, log and market the sale.</p>

Commenter	Comment	Response
		<p>The road closure periods cited are the intent of DOF at this time. If necessary, the FLUP will be amended or reissued, so the public is aware of DOF actions. The contract will refer to the FLUP and, as required, explicitly state the actions required of the contractor to meet the State’s best interest at the time of implementation.</p>
<p>Clarence Clark (VLC)</p>	<p><b>Section III.B. Timber Harvest Activities</b> – Table 1 lists the logging method by unit and setting. Are these logging methods mandated as listed for each setting, i.e., must the purchaser cable log the settings listed as cable logging? For example, must the purchaser cable log over dead ground, once the shovel logging setting is harvested, the area between the “3000164-16” road and cable setting 2-21? All or portions of the following cable settings do not extend from a road to the setting: 3-31, 3-32, 3-33, 1-13, 1-16 and 1-17. The areas shown as shovel ground between the road system and the cable settings mentioned above will likely be cable logged. When appraising the timber-sale we suggest the DOF consider this option.</p> <p>Also, several of the cable logging settings contain “dog legs”, which may not be harvestable by cable methods unless adjacent shovel areas are also cable logged. Finally, there appears to be several cable logging settings that will result in sidehill logging. Can FRPA and regulations be met by doing so?</p>	<p>The areas identified in the FLUP are a product of the layout foresters’ observations and LiDAR slope classifications. The terrain is generally broken, with short steeper pitches. Cable logging would appear to be the appropriate method to employ for both soil stability and economic reasons. As observed, the cable settings are not delineated in a contiguous manner to a specific landing area. Based on observation of current logging practices, loggers are regularly yarding “cable settings” with shovel methods near roads when terrain permits, and then yarding with cable methods over these “dead areas” when compliance is not an issue and they are authorized by contract administrators. Applying the two systems in this manner does influence cable logging costs. The DOF will consider appropriate constraints, methodology and available equipment in its appraisal.</p> <p>Side hill logging. The intent of FRPA with respect to cable logging is to maintain soil stability and water quality, primarily using available deflection and application of techniques to maintain bank integrity when streams are crossed during yarding. None of the areas with sidehill configured yarding are large. Further effort will be performed by staff to determine feasibility, and if sold prior to that point, the purchaser will be consulted on the feasibility of applying cable methods. The value of the timber present, the FRPA-related ramifications and the associated costs may lead to these settings being modified or eliminated from the sale.</p>
<p>Clarence Clark (VLC)</p>	<p><b>Section IV. Road Design, Construction and Maintenance</b> – Since multiple purchasers may be using the road system at the same time due to the short operational timeframe, how will road construction cost be pro-rated across timber sales? Will the purchasers of AS 38.05.115 timber sales be charged a portion of construction and reconstruction costs for roads that they use not directly related to the timber sale they purchase? How will road maintenance costs be divided between multiple timber sale purchasers?</p> <p>Since reconstruction of the “3000150” road was not discussed in the Best Interest Finding and Decision for the Bay View Timber Sale is it appropriate to include such</p>	<p>The DOF will use a residual appraisal method to develop the given timber stumpage value of a sale. The values associated with a sale’s access are accounted for in that manner. The DOF will likely not market the small sale until after the large sale. If it does, the road maintenance cost will likely be allocated based on the volume hauled. DOF timber sale contracts address maintenance responsibilities and the allocation of cost for concurrent use.</p>

Commenter	Comment	Response
	work within the FLUP or as part of the Bay View Timber Sale(s)?	The use of the 3000150 and its upgrade were identified on Page 11 of the BIF (E. Background and description of proposal, 4. Road Access, b. Commercial Access).
	<b>Map Issues</b>	
Mark Minnillo (ADFG)	Although the FLUP provides a map of the locations of the different portions of the area covered under the FLUP, and individual aerial photography maps of each area; an aerial photo showing all the areas within the timber sale would be helpful.	The DOF will work with ADFG to provide a different format for your situational awareness.
Clarence Clark (VLC)	<b>Section IV. D. Road Closure – Table 8</b> - Road segments should be shown on the maps within the DFLUP so the public can determine which portions of each road will be left open and for how long.	The DOF has modified the maps to hopefully better represent the segments on the map.
	<b>General Oversights/ Formatting/ Errors</b>	
Clarence Clark (VLC)	<b>Legal Description</b> – The legal description for the DFLUP does not include the area where the reconstruction of the “3000150” road will occur. This area should be included in the legal description.	The legal description has been amended to represent the work.
Mark Minnillo (ADFG)	The File Number throughout most of the document is listed as SSE1369-K. However, under A. Legal description on page 6, reference is made to “Attachment A” (should be Appendix A) it appears as “SSE-1369 K” although on the maps in appendix A it appears as SSE-1369K.	Thank you for the edits and information.
	<b>Stream Crossings/ Water Classification</b>	
Mark Minnillo (ADFG)	Title 16 We agree with the proposed stream crossing structures for all stream crossings. Title 16 Fish Habitat permit(s) will be required for the bridge crossing of cataloged stream 102-70-10720 (misabeled in Table 7), and for bridge replacement at cataloged stream 102-70-10740; should bridge construction/installation require any work below Ordinary High Water of these streams. A Title 16 Fish Habitat permit will be required for the 36-inch culvert installation located at Point P1311 on the 3000172 Road. This stream was found to contain resident fish and is directly tributary to cataloged stream 102-70-10720. Fish passage is required.	Understood, no change required.
Clarence Clark (VLC)	<b>Section IV. C. Crossing Structures – Table 7</b> – What type of bridge will be used for the crossing of stream AWC #107010720? If a log stringer bridge is used, are there trees of sufficient size and quality to construct the bridge? Is a log stringer bridge sufficient since the closure of that road segment is TBD per the DFLUP? If a prefab bridge is used, will the DOF be providing the bridge or must the purchaser of the timber sale? With multiple roads being used to access the timber sale is there a need to cross stream #107010720? Can the southern half of the timber sale be accessed using only road “3000150-3” and the existing road that it ties into?	The DOF bridge structure style was not definitive in the FLUP because of uncertainty with road management intent after the timber sale(s). The DMLW has determined that it will not be able to allocate resources to the road or bridge maintenance in the foreseeable future. Given that the stream is a cataloged anadromous stream, the DOF is now programming closure of the structure and this segment of the road per 11 AAC 95.320 upon completion of the timber sale. The decision as to what style of structure and who will supply the structure will be determined prior to the

Commenter	Comment	Response
		<p>sale of the timber. The use of a log stringer bridge is unlikely based on the timber type near the site.</p> <p>The FLUP depicts tying the new road extensions to the existing road system at several points in the lower part of the Water Lake drainage on the 30000140 Road. These ties are designed for future management of the State Forest associated with the existing young growth timber. The projected haul routes for this eventual timber harvest would split on the drainage from Water Lake (part being hauled initially south through the Settlement classified land and the other going directly north through State Forest). The existing 3000140 Road configuration has a section with a grade too steep for an adverse haul coming from the proposed southernmost Bay View unit. Staff has considered reconfiguration of the road. A reconstruction alternative for this section is described in tabular form in the FLUP (Table 6A Reconstruction). The design's feasibility is being refined for comparison with the stream crossing on the 30000150 Road for the cataloged stream 107010720. Engineering indicates both alternatives are of a similar cost magnitude. Given the variable costs of bridge material and the subtleties that influence heavy construction management, the DOF is considering offering the sale with a choice of development options. Both routes have merits for long term management of the area.</p>
Clarence Clark (VLC)	<p><b>Section III. F. Timber Harvest – Surface Water Protection</b> – Additional information is needed within the DFLUP/FLUP to inform the public and potential purchasers what “Implement FPRA and Reg.” entails when providing protection for non-classified surface waters. This is extremely important since many settings as shown on the maps within the DFLUP show harvest occurring across non-classified surface waters. Additional information should be provided for streams that are tributaries to anadromous waters based on the gradient of the stream. The DFLUP should provide the criteria that the DOF will use to approve site specific crossing of those streams. Maps within the DFLUP should also show the streams that require split yarding. This information is vital for setting 2-21 and the shovel settings near 2-21.</p>	<p>The DOF has added to the descriptions in Table 4 of the FLUP regarding this topic with the intent to improve purchaser and operator visibility. Communication during contract administration will also work towards this objective.</p> <p>The protection of surface waters is a function of the methods as well as means employed. It is also a function of timber values and constraints (site characteristics, road location, logging systems, etc.). The standard for all surface waters in FRPA is clear; long term water quality shall be maintained. Key goals that lend to this happening are maintaining bank stability and minimizing soil, debris, and slash introduction into surface waters. While FRPA has prescriptive elements (i.e., stream retention areas, etc.), it is implemented as a regulatory system based on feasibility. The DOF has documented the stream locations and portrayed the unit configurations so the timber can be logged with due diligence by the purchaser. Where</p>

Commenter	Comment	Response
		classified streams are identified, the priority of the logging operations within the riparian area is to maintain slope stability and water quality with split yarding and discrete crossings, regardless of the logging method employed.