

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



Draft Forest Land Use Plan

Bay View Timber Sale

SSE1369-K

May 2020

Abbreviations

ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish and Game
ADNR	Alaska Department of Natural Resources
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

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DRAFT

I. Introduction:

Project File Number: SSE1369-K

Division of Forestry Office: Southeast

Area Forester: Greg Staunton

Forest Practices Geographic Region (AS 41.17.950): Region I

This Draft Forest Land Use Plan (FLUP) covers forest operations on approximately 587 acres of land from state lands on Prince of Wales (POW) Island, approximately 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.

This Draft 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 11, 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).

The public and agencies are invited to comment on specific requirements for harvest, access, and reforestation operations in this draft FLUP. The decision on whether or not to offer timber for sale is made through the best interest finding process, and is not subject to review under the FLUP. Objections or comments pertaining to the draft FLUP must be received in writing to the DOF Southeast Area Forester's Office by June 22, 2020 in order to ensure consideration for review. Comments should be mailed to the State of Alaska, Division of Forestry, 2417 Tongass Avenue, Suite 213, Ketchikan, AK 99901 or by email to greg.staunton@alaska.gov. For more information, you may contact Greg Staunton, Southeast Area Forester, 907-225-3070. To be eligible to appeal the final decision, a person must have provided written comment by June 22, 2020.

[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 SSE1369-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. See attached map titled:

Attachment A, SSE-1369 K Bay View Timber Sale Harvest Area Maps.

B. Operational Period:

Summer 2020 through Fall 2025.

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:

	Access	Representative
Activity on ownership:	Easement	Harvest Approval

A. State:

<input checked="" type="checkbox"/> Southeast State Forest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Other state land managed by DNR (S)	<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"/>

B. Other Land Ownership:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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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 silvicultural prescription has been written and is attached to this document in Appendix B.

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 generally notable in defect due to its slow growth and overall lower 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 BIF generally are residual stands that did not have the species composition for historical market conditions.

B. Timber Harvest Activities:

Timber Harvest Activities are displayed in Table 1.

Table 1. Timber Harvest Activities

Unit ID	Setting	Acres	Topography	Silvicultural Action	Logging Method
Unit 1	S	294	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
Unit 1	Total	318			
Unit 2	S	95	Irregular	Clearcut	Shovel logging
Unit 2	21	12	Irregular	Clearcut	High lead cable
Unit 2	Total	107			
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
Unit 3	Total	137			
Unit 11		19	Irregular	Clearcut	Shovel Logging
Unit 12		7	Irregular	Clearcut	Shovel Logging
Total All Units		587			

Note: Figures rounded to nearest whole numbers.

C. Site Preparation:

[X] 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

Unit	Acres	Site Preparation Method	Date of Completion

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

Average DBH (Diameter at breast height)	Residual Trees (Trees/ acre)	Minimum Stocking Standard (Trees/ acre)	Percent Stocking
≥ 9"		120	%
6" to 8"		170	%
1" to 5"		200	%
Total Residual Stocking			%

Seedlings Required:

Percentage Under stocked = 100 – Total Residual Stocking %

Percentage Under stocked = 100 – _____ % = _____ %

Seedlings/ Acre Required = Percentage Understocked/100 x 450

Seedlings/ Acre Required = _____ % /100 x 450 = _____

Natural regeneration

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

Coppice

List species:

Artificial regeneration

Seeding-source of seed (general vicinity 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. 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 Reg.
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	Split yard, site specific crossing approval of DOF.
1/2/3	Numerous and unnamed	Tributary to Anadromous >12%	none	50 FT. Slope Stability Standards	Split yard, site specific crossing approval of DOF.

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.

2. Large cavities in western red cedars with evidence of past black bear use were retained with approximately a 66 foot retention area of timber.

H. Cultural and Historical Resource Protection:

This project was reviewed by the State Historic and Preservation Office (SHPO).

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:

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

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	
	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 pertains to existing Road 3000150 classified as a secondary road with site specific designation for a maximum grade of 12% for adverse haul (relative to the 3000000 Road). Road 3000150 shall be brushed as required to meet DOF road standards and operator visibility and safety needs. Road to 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 6B. New Road Construction and Use

Road ID	Segment	Harvest Unit	Stations	Road Class	% Max. Grade *	Constructed by:	Maintained by:
3000150	3	1	43.9	Primary		Purchaser	Purchaser
3000150	5	3	26.1	Primary		Purchaser	Purchaser
3000150	7	3	6.5	Primary		Purchaser	Purchaser
3000150	12	1,2	24.2	Primary		Purchaser	Purchaser
3000150	13	2	28.2	Secondary	12	Purchaser	Purchaser
3000150	14	3	59.0	Secondary	12	Purchaser	Purchaser
3000160	21	3	19.8	Spur		Purchaser	Purchaser
3000160	31	3	4.1	Spur		Purchaser	Purchaser
3000161	23	3	10.6	Spur		Purchaser	Purchaser
3000162	29	3	5.3	Spur		Purchaser	Purchaser
3000163	24	12	4.1	Spur		Purchaser	Purchaser
3000164	16	2	20.2	Spur		Purchaser	Purchaser
3000164	18	2	9.4	Spur		Purchaser	Purchaser
3000165	17	2	7.9	Spur		Purchaser	Purchaser
3000166	9	1	7.9	Primary		Purchaser	Purchaser
3000166	11	2	10.5	Secondary	12	Purchaser	Purchaser
3000166	19	2	18.9	Secondary	12	Purchaser	Purchaser
3000167	10	1	17.4	Secondary	12	Purchaser	Purchaser
3000168	26	1	6.3	Spur		Purchaser	Purchaser
3000169	20	1	9.5	Secondary	12	Purchaser	Purchaser
3000170	27	1	15.2	Secondary	12	Purchaser	Purchaser
3000171	15	1	9.6	Spur		Purchaser	Purchaser

3000172	2	1	13.4	Spur		Purchaser	Purchaser
3000173	4	1	2.7	Spur		Purchaser	Purchaser
3000174	6	1	4.5	Spur		Purchaser	Purchaser
3000175	28	1	6.8	Spur		Purchaser	Purchaser
3000176	25	1	9.8	Spur		Purchaser	Purchaser
3000178	0	1	6.6	Spur		Purchaser	Purchaser
3000179	1	1	20.2	Spur		Purchaser	Purchaser
3000180	8	1	5.3	Spur		Purchaser	Purchaser

**Note: 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.*

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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). Attach location specific road design that potentially 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): N/A

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.

See Table 6A for planned actions on existing drainage structures.

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

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	12	P1061	18	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	12	P1063	24	CPP	Tributary anadromous >12%	None	Per Table 8
3000150	12	P1067	60	Bridge	Anadromous	107010720	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
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
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%	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
3000150	3	1	All Season	TBD	Recreation, Settlement
3000150	5	3	All Season	TBD	Recreation, Settlement
3000150	7	3	All Season	TBD	Recreation, Settlement
3000150	12	1,2	All Season	TBD	Recreation, Settlement
3000150	13	2	All Season	2050	Recreation, Settlement
3000150	14	3	All Season	2050	Silviculture
3000160	21	3	All Season	2050	Silviculture
3000160	31	3	All Season	2050	Silviculture
3000161	23	3	All Season	2025*	Silviculture
3000162	29	3	All Season	2025*	Silviculture
3000163	24	12	All Season	2025*	Recreation, Settlement
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	TBD	Recreation, Settlement
3000166	11	2	All Season	TBD	Recreation, Settlement
3000166	19	2	All Season	TBD	Recreation, Settlement
3000167	10	1	All Season	TBD	Recreation, Settlement
3000168	26	1	All Season	2025*	Recreation, Settlement
3000169	20	1	All Season	TBD	Recreation, Settlement

3000170	27	1	All Season	TBD	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
3000178	0	1	All Season	2025*	Recreation, Settlement
3000179	1	1	All Season	2025*	Recreation, Settlement
3000180	8	1	All Season	2025*	Recreation, Settlement

*: At the end of the timber sale contract unless otherwise directed by DOF.

TBD: To be determined based on funding and authorization of the land manager: ADNR-Division, Mining, Land and Water (DMLW) or DOF. 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.

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. Approvals:

This Draft 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.

Gregory D. Staunton
Area Forester

Date

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

DRAFT

V. Approvals:

This Draft 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.



Gregory D. Staunton
Area Forester

5/22/2020

Date

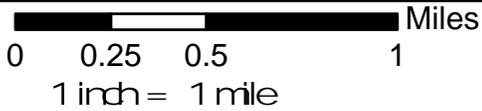
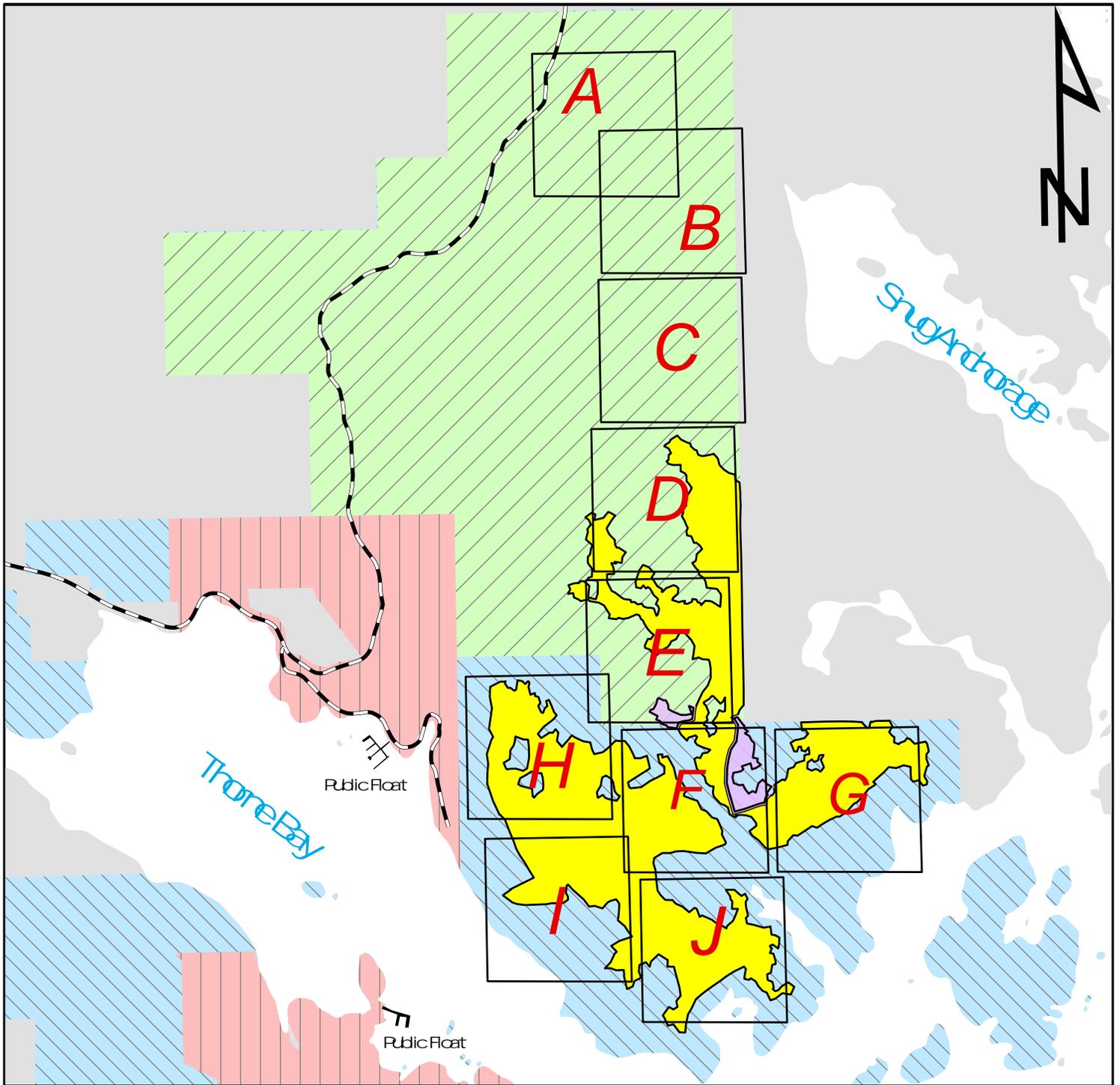
If you have any questions, please contact the Southeast Area Office at (907) 225-3070 or e-mail greg.staunton@alaska.gov.

Appendix A: Bay View Timber Sale Maps

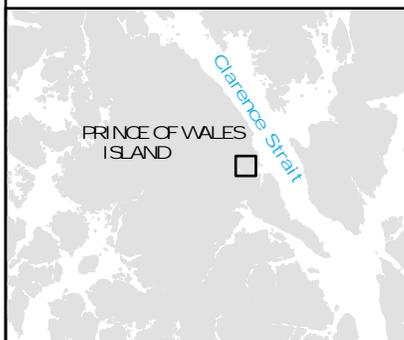
Appendix A1 Bay View Area Map (1 page)

Appendix A2 Bay View Unit Maps (10 pages)

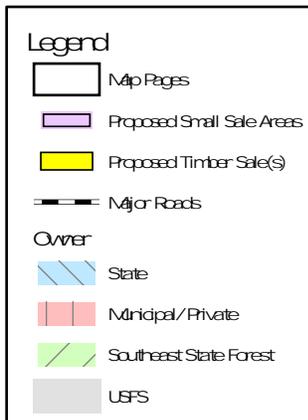
DRAFT



Township 71S Range 8E
Copper River Meridian



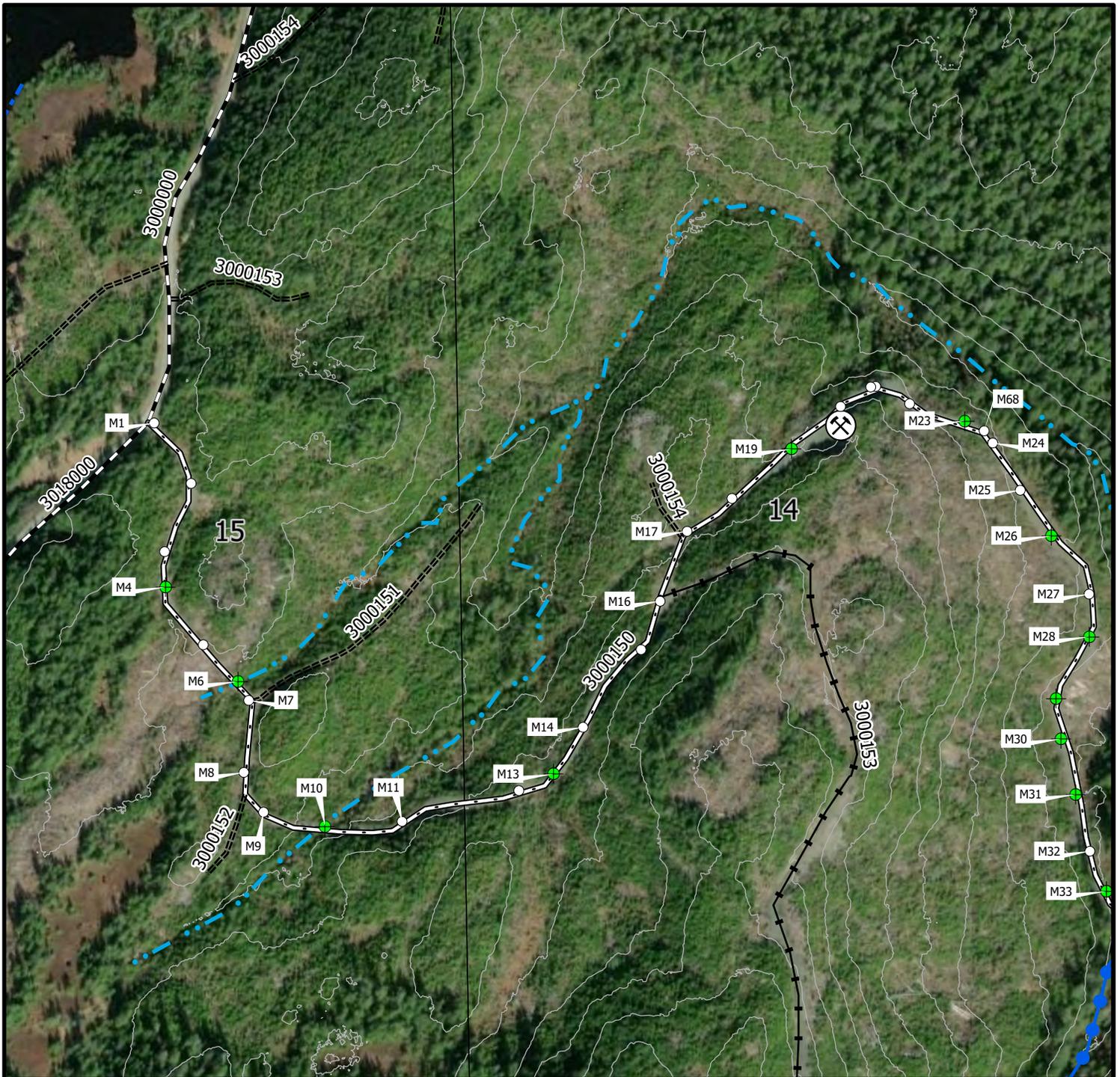
Vicinity Map 1 inch = 36 miles



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



DIVISION OF FORESTRY



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

Contour Interval = 40 feet
Source: 2018 USFS LiDAR

Legend

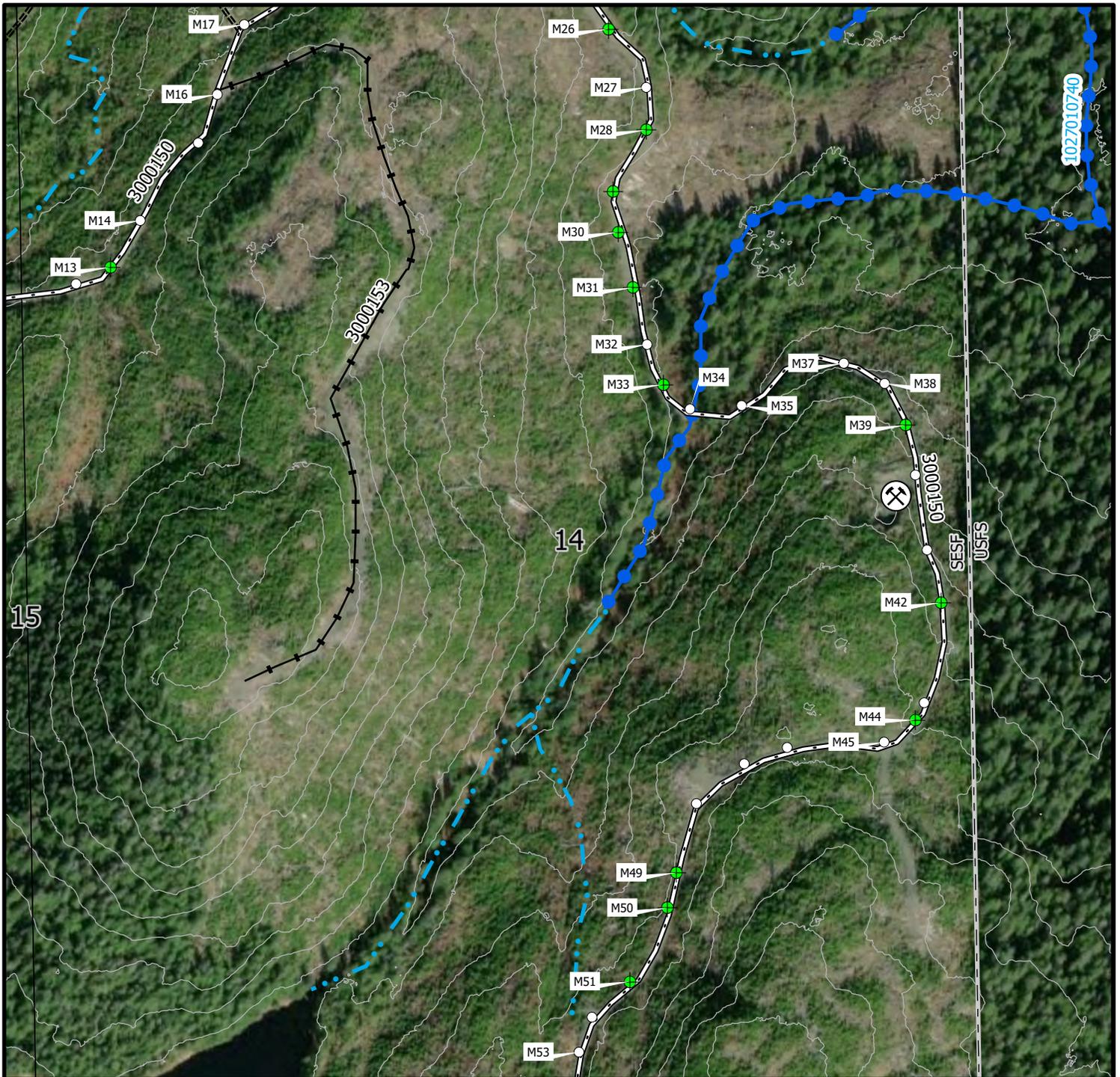
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|-------------------------------|------------------------------------|-------------------------------|
| Proposed Timber Sale(s) | Existing Forest Roads | Changes |
| Proposed Small Sale Areas | Active Primary | Unit Line to be removed |
| Cable Logging Setting | Secondary (upgrade) | New Unit Line |
| Proposed Harvest Roads | Inactive Spur | Proposed Road to be removed |
| Primary | Closed | Streams |
| Secondary | Existing SESF Road Features | Anadromous |
| Spur | Culvert | Tributary to Anadromous ≤ 12% |
| Proposed Future Access | Road Points | Tributary to Anadromous >12% |
| Proposed Drainage Structures | Rock Pit | 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

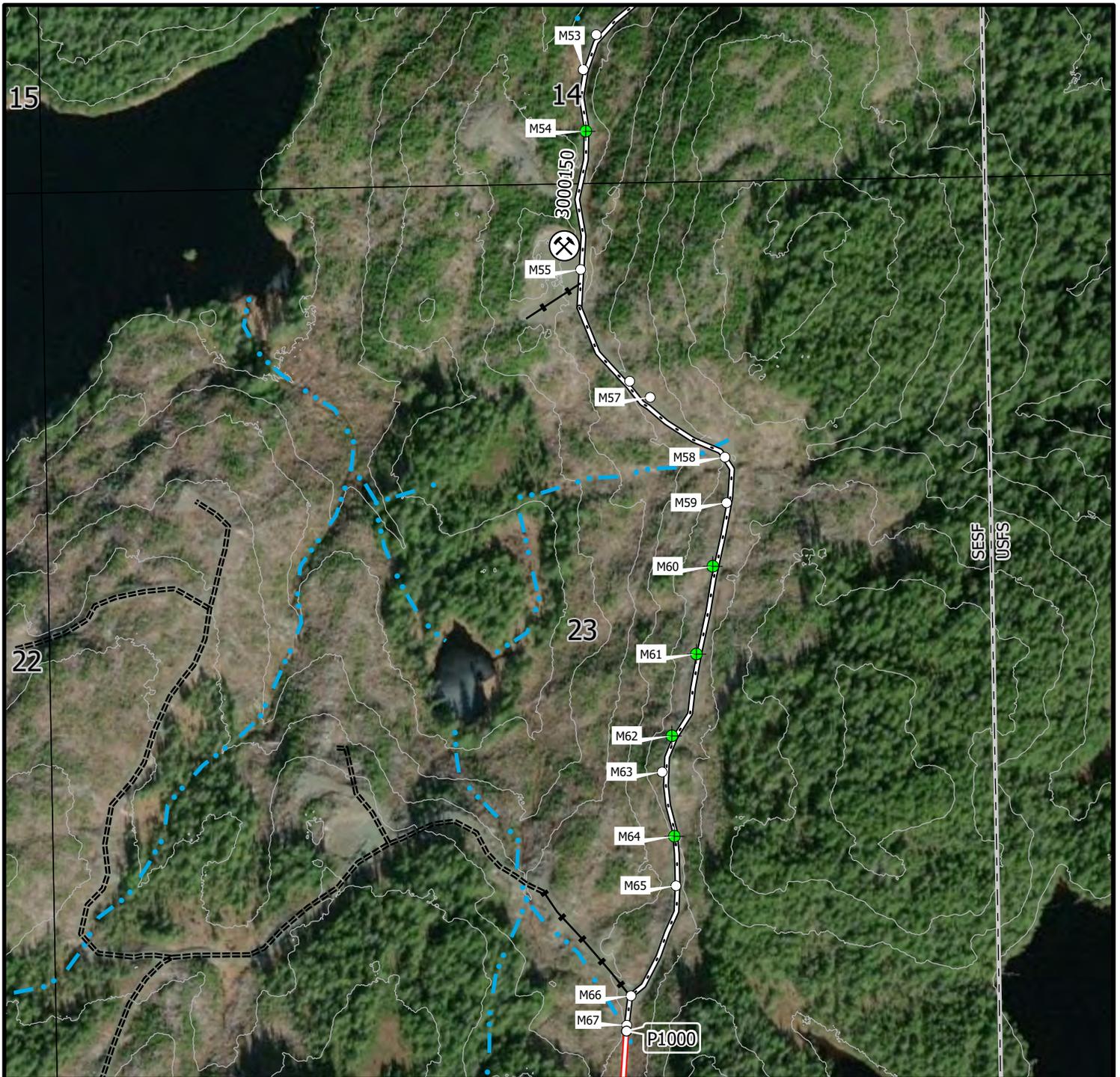
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|--|---|--|
| <ul style="list-style-type: none"> Proposed Timber Sale(s) Proposed Small Sale Areas Cable Logging Setting Proposed Harvest Roads Primary Secondary Spur Proposed Future Access Proposed Drainage Structures | <ul style="list-style-type: none"> Existing Forest Roads Active Primary Secondary (upgrade) Inactive Spur Closed Existing SESF Road Features Culvert Road Points Rock Pit | <ul style="list-style-type: none"> Changes Unit Line to be removed New Unit Line Proposed Road to be removed 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: 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
	Proposed Small Sale Areas	
	Cable Logging Setting	
Proposed Harvest Roads		
	Primary	
	Secondary	
	Spur	
	Proposed Future Access	
	Proposed Drainage Structures	
	Culvert	
	Road Points	
	Rock Pit	
Changes		
	Unit Line to be removed	
	New Unit Line	
	Proposed Road to be removed	
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: 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

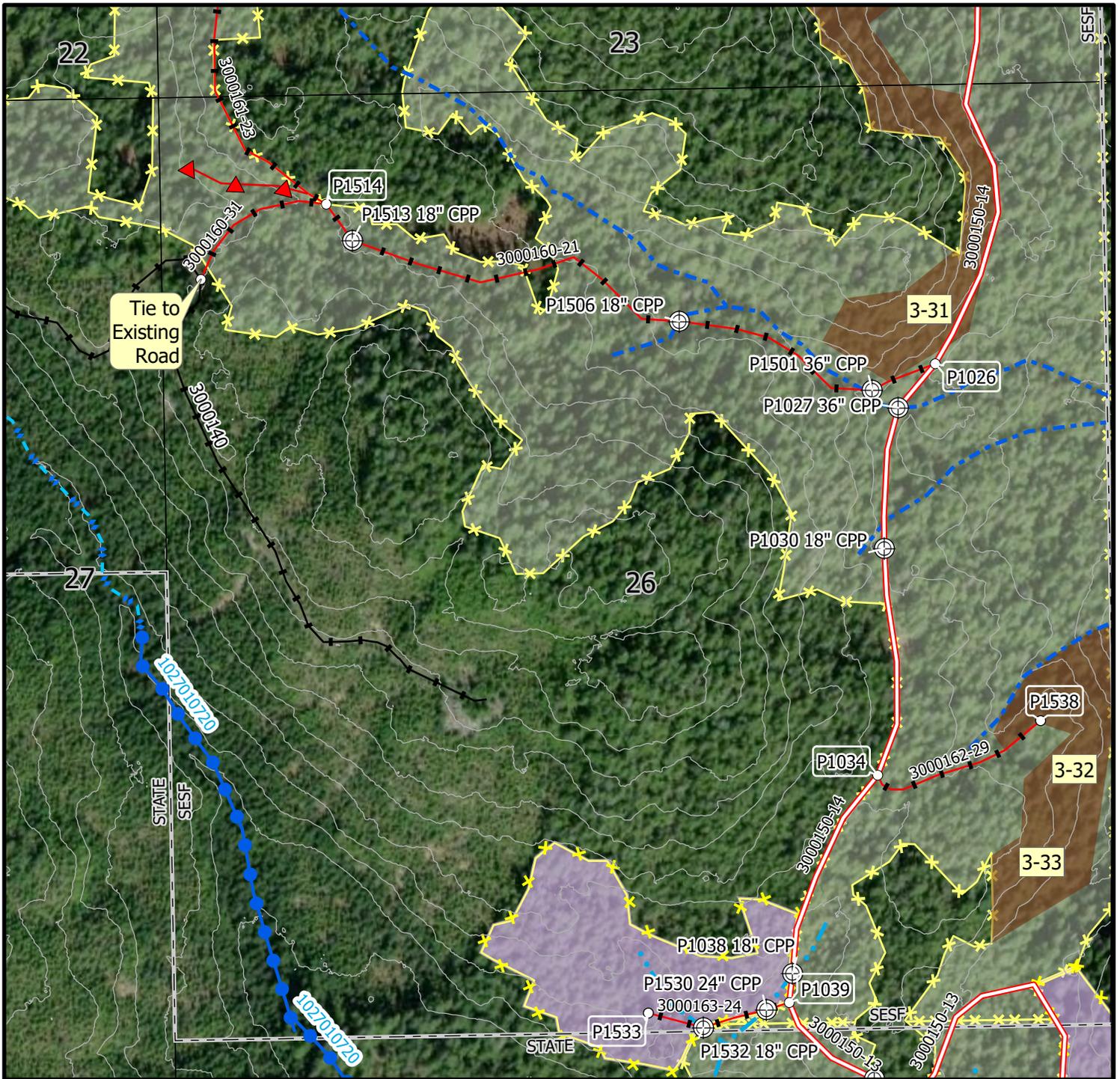
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|-------------------------------|------------------------------------|-------------------------------|
| Proposed Timber Sale(s) | Existing Forest Roads | Changes |
| Proposed Small Sale Areas | Active Primary | Unit Line to be removed |
| Cable Logging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

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



DIVISION OF FORESTRY





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

Contour Interval = 40 feet
Source: 2018 USFS LiDAR

Legend

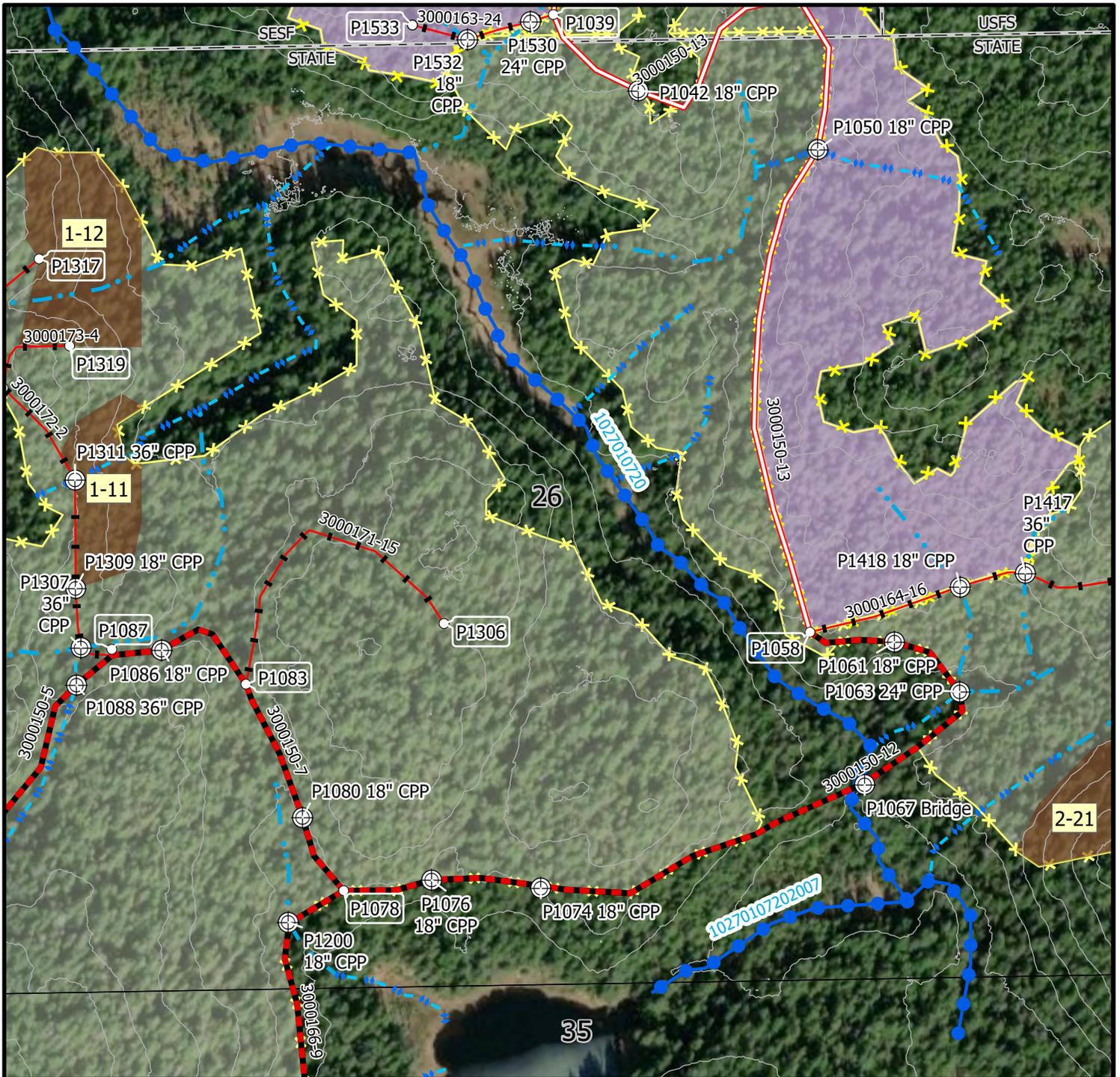
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| <ul style="list-style-type: none"> Proposed Timber Sale(s) Proposed Small Sale Areas Cable Logging Setting Proposed Harvest Roads Primary Secondary Spur Proposed Future Access Proposed Drainage Structures | <ul style="list-style-type: none"> Existing Forest Roads Active Primary Secondary (upgrade) Inactive Spur Closed Existing SESF Road Features Culvert Road Points Rock Pit | <ul style="list-style-type: none"> Changes Unit Line to be removed New Unit Line Proposed Road to be removed 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: E
"Unit 3 South"



DIVISION OF FORESTRY





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

Contour Interval = 40 feet
Source: 2018 USFS LiDAR

Legend

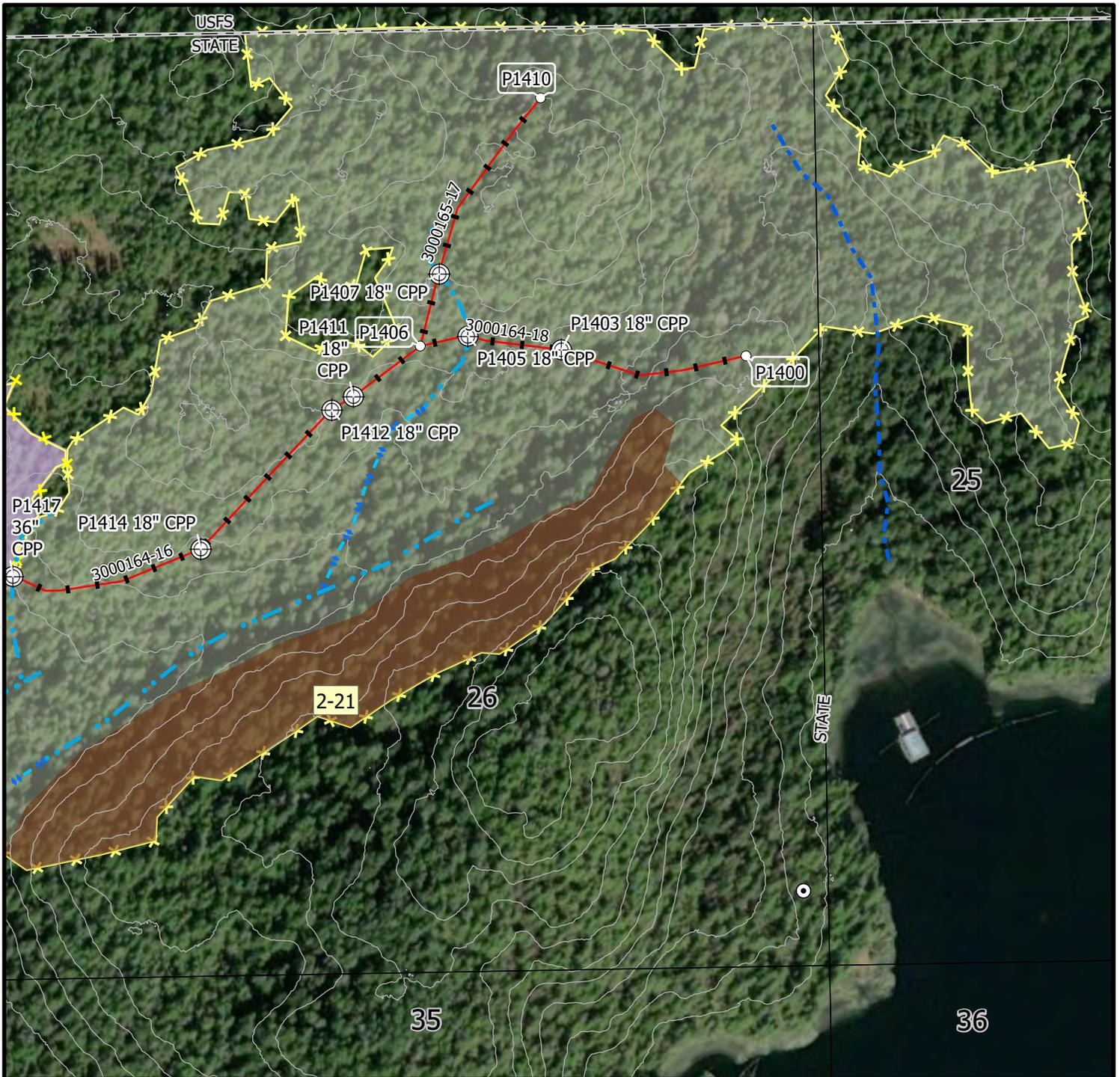
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|--|---|--|

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



DIVISION OF FORESTRY





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

Contour Interval = 40 feet
Source: 2018 USFS LiDAR

Legend

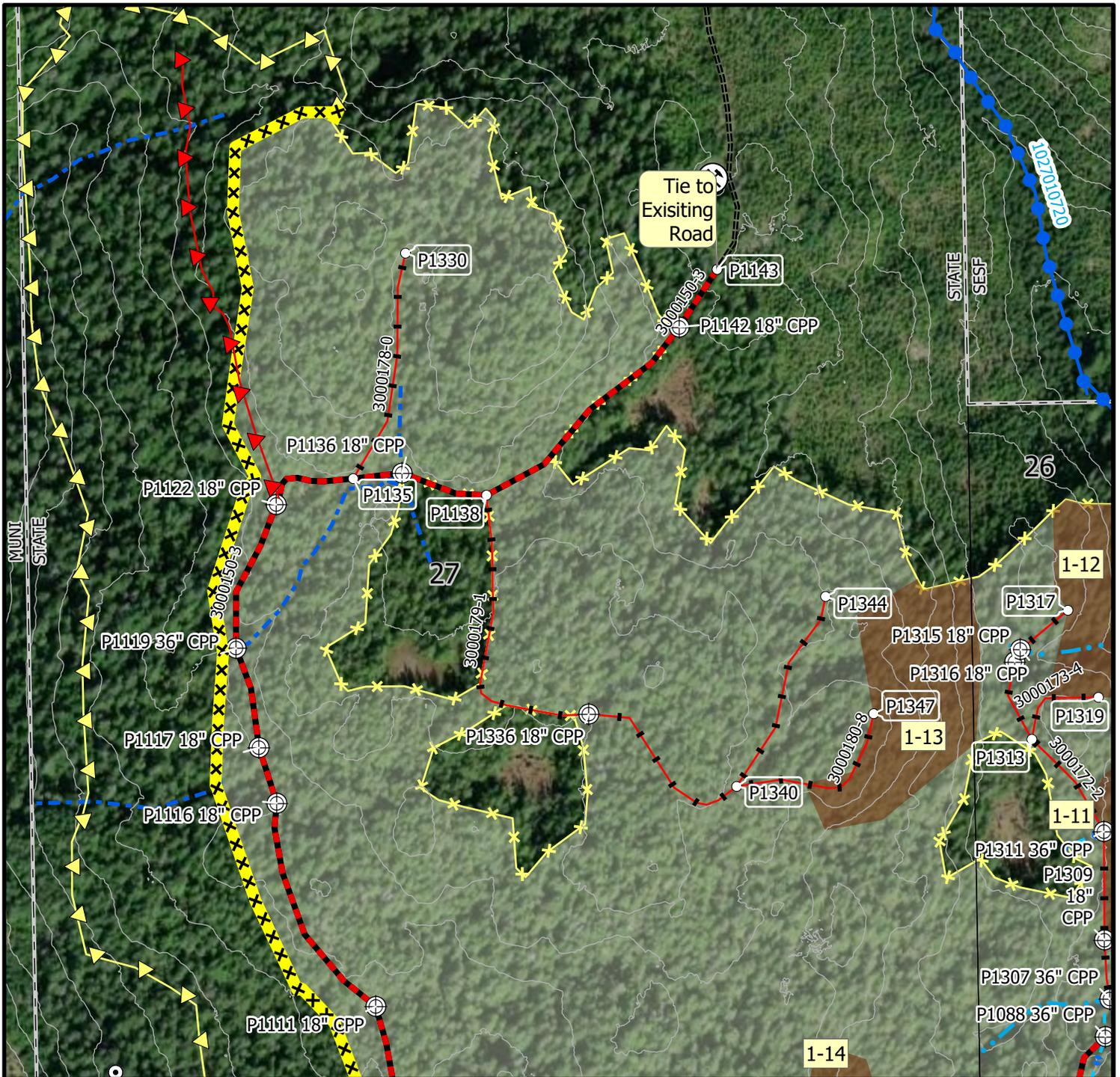
- | | | |
|-------------------------------|------------------------------------|-------------------------------|
| Proposed Timber Sale(s) | Existing Forest Roads | Changes |
| Proposed Small Sale Areas | Active Primary | Unit Line to be removed |
| Cable Logging Setting | Secondary (upgrade) | New Unit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

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



DIVISION OF FORESTRY





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

Contour Interval = 40 feet
Source: 2018 USFS LiDAR

Legend

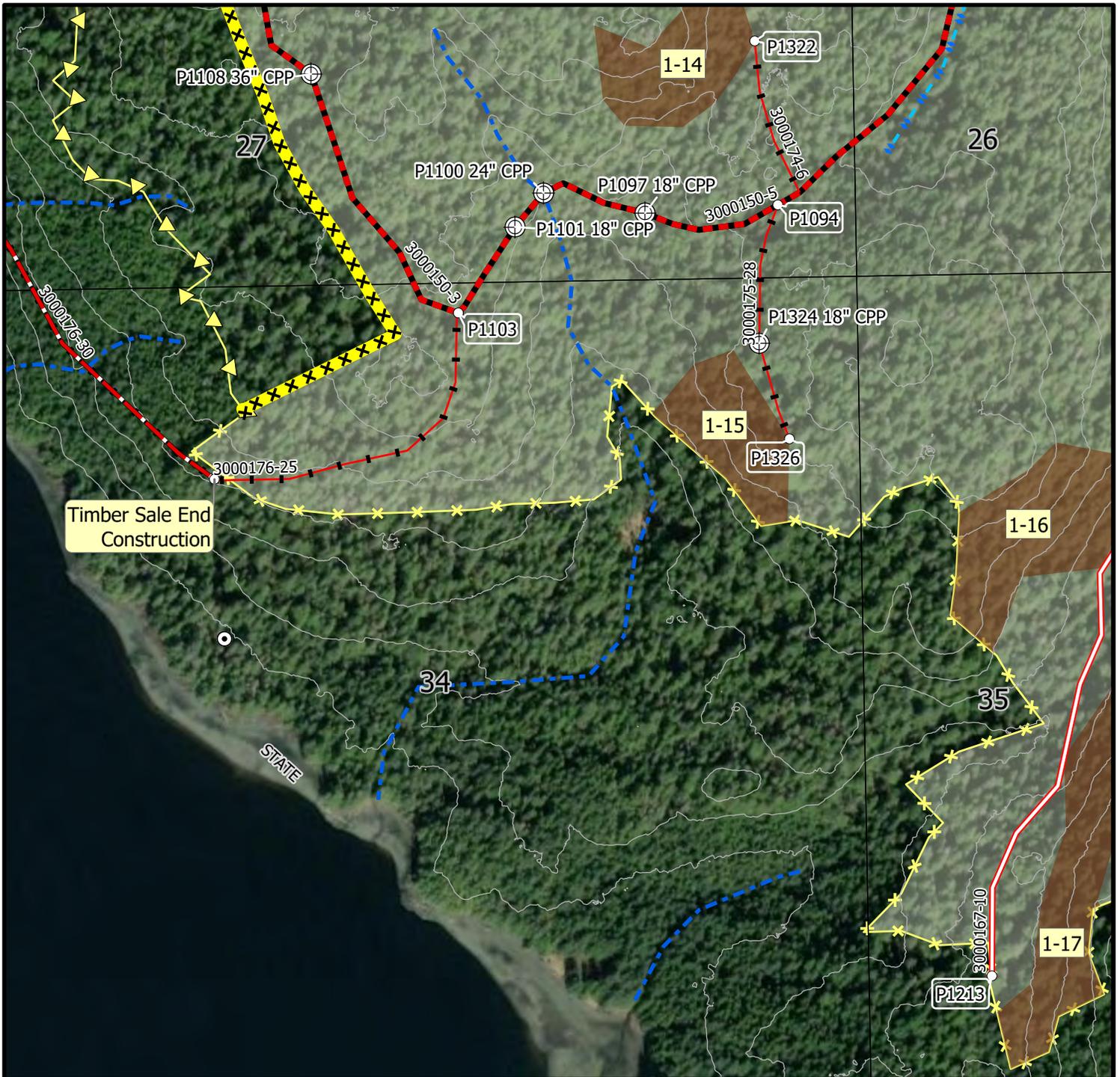
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|--|---|--|
| <ul style="list-style-type: none"> Proposed Timber Sale(s) Proposed Small Sale Areas Cable Logging Setting Proposed Harvest Roads Primary Secondary Spur Proposed Future Access Proposed Drainage Structures | <ul style="list-style-type: none"> Existing Forest Roads Active Primary Secondary (upgrade) Inactive Spur Closed Existing SESF Road Features Culvert Road Points Rock Pit | <ul style="list-style-type: none"> Changes Unit Line to be removed New Unit Line Proposed Road to be removed 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: H
"Unit 1 North"



DIVISION OF FORESTRY





Timber Sale End Construction



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"> Proposed Timber Sale(s) Proposed Small Sale Areas Cable Logging Setting Proposed Harvest Roads Primary Secondary Spur Proposed Future Access Proposed Drainage Structures | <ul style="list-style-type: none"> Existing Forest Roads Active Primary Secondary (upgrade) Inactive Spur Closed Existing SESF Road Features Culvert Road Points Rock Pit | <ul style="list-style-type: none"> Changes Unit Line to be removed New Unit Line Proposed Road to be removed 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: 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		
	Proposed Timber Sale(s)	Existing Forest Roads
	Proposed Small Sale Areas	
	Cable Logging Setting	
Proposed Harvest Roads		
	Primary	
	Secondary	
	Spur	
	Proposed Future Access	
	Proposed Drainage Structures	Existing SESF Road Features
		Changes
		Streams

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



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_bridge_standard_design_20150128.pdf

ADFG fish way permits (To be attached in adopted FLUP).

- Site M34 AWC 1027010740 Replacement
- Site P1067 AWC 1027010720 New

Appendix C: Appeal Statutes and Regulations

(Reserved)

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Appendix D: DRAFT FLUP Public Comment

(Reserved)

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