

Appendix 2

Unit Cards

Appendix 2, Unit Cards, is used to explain site-specific information about each unit and any resource concerns and mitigations. Units have been field verified. Narrative cards and maps for each unit in this Record of Decision are in numerical order and are grouped by road system. The unit cards describe the silvicultural prescription, resource concerns, and protection or mitigation measures for each unit.

The following sections provide background information for the unit cards. The Introduction to Unit Cards section explains information displayed in the individual unit cards, including silvicultural prescriptions, and definitions of terms used in aquatics, soils and wildlife resources. The General Protection Measures section summarizes protection measures that can be used for resource concerns. These protection measures can be either from the Forest Plan or project specific.

Introduction to Unit Cards

Silvicultural Prescriptions

Silvicultural prescriptions have been developed to meet the management objectives based on each site and the Forest Plan direction. Silvicultural prescriptions will include these unit cards as well as sale layout and marking guidelines for each unit that is included in the Traitors Cove Timber Sale Record of Decision. Minor changes to boundary layout and to the prescriptions are expected during implementation to better meet on-site conditions. The “Unit Development” block on the unit cards summarizes the prescription and harvest methods that would achieve desired stand structure and address resource concerns and logging system operability. The two different silvicultural systems proposed in this project to achieve a desired stand structure are described below. Specific information and rationale for use of a clearcut prescription is found in each unit’s silvicultural prescription (found in the project record). Chapter 3 of the Final EIS also discusses rationale for use of clearcutting.

- **Two-aged Management:** A treatment intended to result in a stand with trees of two distinct age classes. The residual stand constitutes two distinct age classes separated in age by more than 20 percent of rotation age. The retained trees are left as individual residual trees or in clumps. There would be two separate two-aged prescriptions: 15 percent retention (minimum requirement) and 50 percent retention (resource concerns).
- **Even-aged management:** Regenerates and maintains a stand with a single age class or nearly single age class in which the range of tree ages forming the main canopy level does not exceed 20 percent of the harvest rotation age. The stand would regenerate into a mostly single-aged stand.

Aquatics

All known streams are shown on the unit card maps. These streams and any additional streams found during layout will be protected by following the Forest Plan Riparian Standards and Guidelines.

Appendix 2

Riparian Management Areas

Stream buffers maintain biodiversity and productivity, streambank and stream channel processes, and the natural and beneficial qualities of large woody debris over the short and long term. Riparian Management Areas are areas of special concern for fish, other aquatic resources and wildlife. They are generally delineated as identified in the Forest Plan process group direction.

Riparian Standards and Guidelines for Timber Harvest

Forest Plan Standard and Guideline buffer widths are based on stream class and process group. Minimum buffer widths on fish streams and lakes (Class I and II) are from 100 to 140 feet. In cases where the floodplain, wetland fens, or riparian associated vegetation or soils extend beyond minimum buffers, buffer widths are widened to include these features. Class III streams are given a variable-width slope-break buffer, and process groups MM, FP and AF receive buffers equal to Class I and II streams. Class IV streams do not require a buffer, but split yarding or partial suspension is required. The first 100 feet of all buffers is horizontal distance; additional protection is measured in slope distance.

Stream Class

Table A2-1
Stream Class in the Traitors Cove Unit Cards

Stream Class	Stream Class Description
Class I	Contains anadromous or adfluvial fish or fish habitat, or high-value resident fish habitat.
Class II	Contains resident fish or fish habitat. Class II streams have no anadromous populations and do not otherwise meet Class I criteria.
Class III	No fish, but have sufficient flow or sediment transport capabilities to affect downstream water quality or fish habitat capability.
Class IV	Intermittent, ephemeral, and small perennial streams with 1 foot or greater bankfull width and insufficient flow or sediment transport capabilities to affect downstream water quality or fish habitat.
Nonstreams	Generally intermittent and less than 1 foot in bankfull width, showing little or no signs of incision and scour. The streams are not classed and do not appear on the unit cards.

Process Groups and Channel Types

A process group describes streams with similar interrelationships between watershed runoff, landform relief, geology, and glacial or tidal influences on erosion and deposition. A channel type more precisely characterizes a stream and helps predict the probable responses to natural and human influences. Channel types incorporate other aspects such as gradient, pattern, stream bank incision and containment, and riparian area vegetation communities. See the Forest Plan, Figure D-1 (page D-4) for a visual representation of the typical distribution of channel process groups. The following table shows the Forest Plan codes used on the unit card narratives. Each unit card summarizes the protection. Only the channel types found in the Traitors Cove project area are listed.

Table A2-2
Channel Types in the Traitors Cove Unit Cards

Process Group	Channel Type	Channel Type Description
Alluvial Fan	AF1	Moderate Gradient Alluvial Fan Channel
Flood Plain	FP3	Narrow Low Gradient Flood Plain Channel
High Gradient Contained	HC1	Shallowly Incised Muskeg Channel
	HC2	Shallowly to Moderately Incised Footslope Channel
	HC3	Deeply Incised Upper Valley Channel
	HC4	Deeply Incised Muskeg Channel
	HC5	Shallowly Incised Very High Gradient Channel
	HC6	Deeply Incised Mountain Slope Channel
Moderate Gradient Contained	MC1	Narrow Shallow Contained Channel
	MC2	Moderate Width and Incision Contained Channel
Moderate Gradient, Mixed Control	MM1	Narrow Mixed Control Channel
Palustrine	PA1	Narrow Placid Flow Channel
	PA5	Beaver Dam/Pond Channel

Source: Forest Plan, pages D-1 - D-3.

Windfirm Buffers

To improve windfirmness, additional trees will be added alongside stream buffers where needed. An appropriate distance beyond the no-harvest zone would be managed to provide for reasonable assurance of windfirmness of the Riparian Management Area.

Soils

Soil Deferral Areas

Highly unstable slopes are removed from harvest to reduce mass movement risks. Protection measures for MMI4 soils are explained on appropriate unit cards. Soil deferral areas are areas that have been field determined to be highly unstable. Evaluation criteria include steepness, dissection, parent material, soil drainage, and potential impacts on downstream beneficial uses.

Timber

Guylines and Tailholds

Adequate guyline anchors and tailholds are necessary for safe cable harvesting operations. Guyline anchors for yarding towers are typically located within a 100-foot radius guyline circle. Guyline circles for landings located on existing roads may extend outside of the unit boundary and require 1/3 to 1/2 acre of trees to be removed for safety. Tailholds, generally notched large trees, are usually located beyond the unit boundary to provide sufficient cable deflection. A 10 foot wide safety corridor to reach a tailhold may be cleared of branches and typically smaller utility-grade trees.

Appendix 2

Wildlife

Marten Habitat Protection

High-value marten habitat is defined as high-volume strata below 1,500 feet elevation. VCUs within higher-risk biogeographic provinces, such as Revillagigedo Island and vicinity, where over 33 percent of the productive old growth has been converted to young stands, will implement certain standards to leave structural characteristics in openings over 2 acres. These methods include maintaining an average 30 percent canopy closure throughout the harvest unit, including:

- Eight large trees/acre (20-30 DBH)
- Three large decadent (standing dead or dying) trees/acre
- Three pieces/acre of down material (logs 20-30" at large end and at least 10' long)

Retained trees should have a reasonable assurance of windfirmness. Current direction (Cole letter, May 2005) is to retain clumps near setting edges and unit boundaries.

General Protection Measures

These general measures apply to all units and roads in the Traitors Cove Timber Sale project. The source(s) of each general measure are listed after the measure in terms of individual Forest-wide Standards and Guidelines (see Chapter 4 of the Forest Plan) or BMPs (see Appendix C of the Forest Plan and Chapter 10 of FSH 2509.22, The Soil and Water Conservation Handbook).

Air Quality Protection

Design projects to control air pollution impacts and to ensure that the predicted emissions from all pollution sources do not exceed ambient air quality standards, as specified under the Alaska Administration Code, Title 18, Chapter 50. (AIR 112)

Soil/Water Protection during Timber Sale Planning and Operations

Incorporate soil and water resource considerations into timber sale planning. Include site-specific considerations, designating water quality protection needs on sale area maps, locating and designing landings for good drainage and dispersion of water, incorporating erosion control and timing responsibilities into the Operating Schedule, scheduling and enforcement of erosion control during and at completion of the timber sale, including non-recurring "C" provisions to protect soil and water resources in timber sale contracts, and seeking an environmental modification of the contract if new circumstances or conditions indicate that soil, water, or watershed damage may occur. (BMPs 13.1, 13.3, 13.4, 13.5, 13.9, 13.10, 13.11, 13.12, 13.14, and 13.18)

Soil/Water Protection during Road Development

Implement measures to reduce surface erosion and drainage interruption related to transportation. This includes water-barring and cross-draining roads using ditches and culverts to prevent water running long distances over roads, closure, and seeding and fertilizing cut-and-fill slopes. (BMPs 14.1, 14.2, 14.3, 14.5, 14.7, 14.8, 14.9, 14.10, 14.11, 14.12, and 14.19)

Soil/Water Protection during Road Management

Conduct road maintenance and snow removal operations to minimize disruption of road surfaces, embankments, ditches, and drainage facilities, and use road closures or other measures to keep road surface and road site erosion at low or background levels. (TRAN23-I, BMPs 14.20 and 14.23)

Management of Road Use to Reduce Erosion and Sedimentation

Control access and manage road use to reduce the risk of erosion and sedimentation from road surface disturbance especially during the higher-risk periods associated with high runoff and spring thaw conditions. (BMP 14.22)

Temporary Road Obliteration

Decommission temporary roads after use, remove or bypass drainage structures and install waterbars in appropriate places. (TRANS-214-2 and BMPs 12.17 and 14.24)

Soil/Water Protection during Development of Rock Sources, MAFs, & Other Facilities

Implement measures to reduce surface erosion and other impacts on soils and water from gravel sources and quarries, MAFs, sortyards, and other facilities. (BMPs 14.18, 14.19, 14.25, 14.26, and 14.27)

Appendix 2

Camp and Facility Siting

Site camps and other facilities sufficiently far from important seasonal bear concentrations, raptor nest sites, and other important wildlife habitats, to avoid or minimize wildlife-human conflicts. (WILD112)

Sanitation at Facilities

Comply with all regulations for the disposal of sewage at camps, MAFs, and other facilities; require incinerators and/or other bear-proof garbage disposal methods at work camps. (WILD112-VI, BMPs 12.10, 12.15, and 12.16)

Accidental Spills

Implement measures and plans to prevent the contamination of soil and water from accidental spills of petroleum products and hazardous substances. (BMPs 12.8 and 12.9)

Heritage Site Discovery

Suspend work if a heritage site is discovered during project implementation. Authorize resumption of work only after consultation with the State Historic Preservation Office is complete. (HER-III)

Karst/Cave Inventory

Inventory karst landscapes and cave resources prior to initiation of project planning. (KARST-III)

Maximum Size of Created Openings

Limit created openings to a maximum size of 100 acres. (TIM114-IV)

Maintain Advance Regeneration

Maintain advance regeneration within the unit to meet reforestation needs and stand objectives. (TIM111-2-I)

Windthrow Hazards Along the Boundaries of Protected LUDs

Take measures that protect LUDs which prohibit timber harvest activities from harvested-related windthrow. (TIM114-XIII)

Certification of Reforestation

Certify that every unit that receives a final harvest meets or surpasses the stocking guidelines and certification standards (FSH 2409.17) within 5 years. (TIM24)

Wetland Protection

Traitors Cove project avoids impacting wetland whenever practicable, but it is not feasible to avoid all wetland areas. A wet avoidance clause was included in the road design contract. The contract is part of the planning record.

Minimize the loss of all wetlands, but particularly the higher-value wetlands (especially fens), and minimize the adverse impacts of land management activities on wetlands; follow Executive Order 11990 and the BMPs. (WET-I, WET-III, TRANS 214-3, BMP 12.5)

Beach and Estuary Fringe Protection

Avoid harvest within the beach and estuary fringe; avoid road construction within this zone, except where no feasible alternative exists. (BEACH 2)

Non-Development LUD Protection

Avoid timber harvest impacts and minimize road construction within non-development LUDs such as Old-growth Habitat (Forest Plan p. 3-76), and Semi-remote Recreation (Forest Plan p. 3-83).

Connectivity Between Old-growth Reserves

Provide corridors of old-growth forest between and among medium and large Old-growth Reserves. Where sufficient connectivity does not exist, or where the minimum Forest Plan criteria are not met, provide stands of productive old growth or relocate or redesign mapped small Old-growth Reserves. (WILD112-XVIII)

Marine Mammal Protection

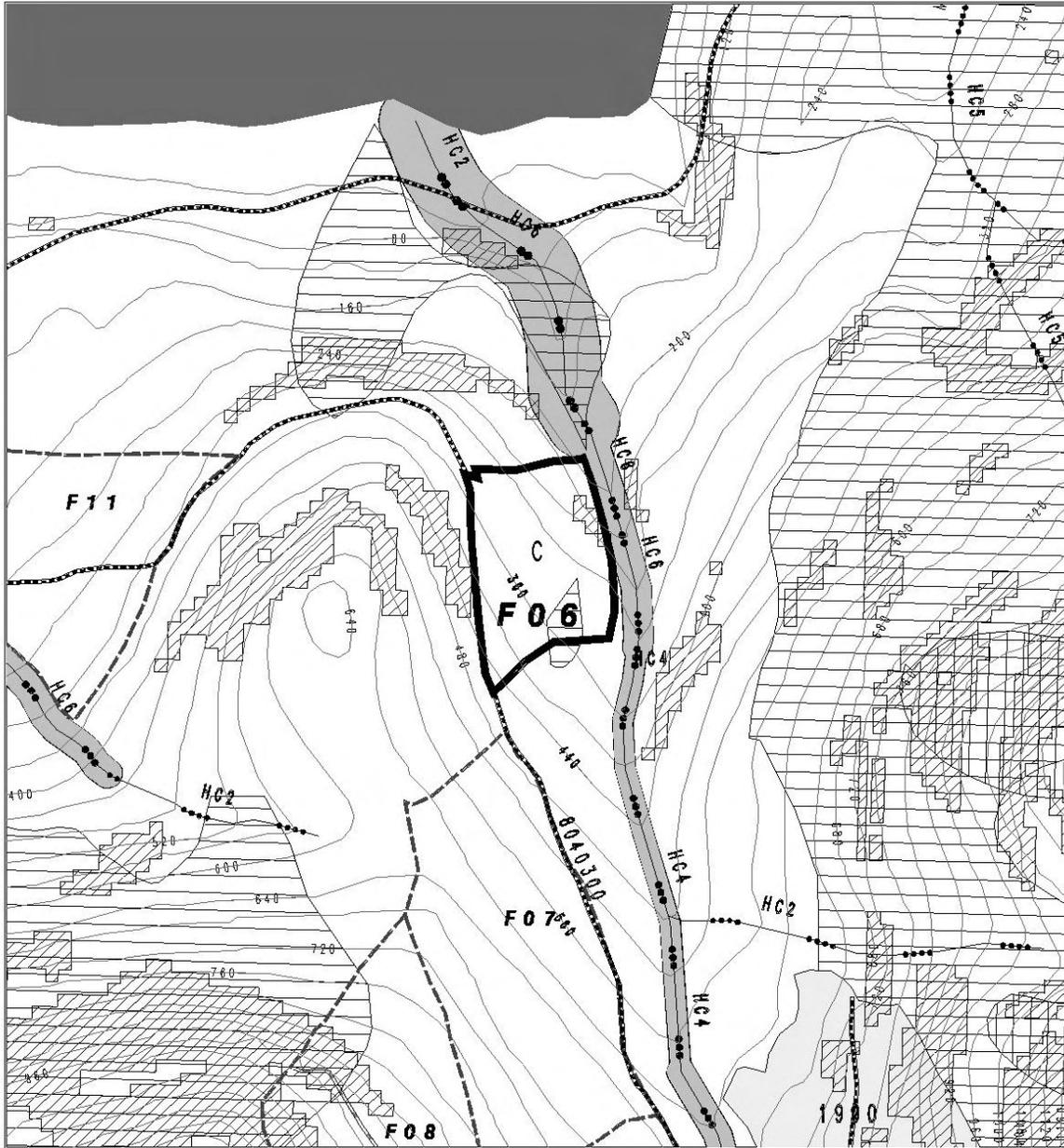
Ensure that Forest Service permitted or approved activities are conducted in a manner consistent with the Marine Mammal Protection Act, the Endangered Species Act, and National Marine Fisheries Service regulations for approaching whales, dolphins, porpoises, seals, and sea lions. Site camps, MAFs, and other facilities are to be located at least 1 mile away from known Steller sea lion haulouts. (TE&S-I, WILD-112-VII)

Site-specific Protection or Mitigation Measures

Site-specific protection or mitigation measures are identified on the applicable unit or road card.

Appendix 2

Traitors Cove Record of Decision Unit Card: F06



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warden Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F06

LUD: ML

Stand Number: 738020031

Planned Acres: 6

738020068

Gross Volume per acre MBF: 23.5

Assigned FACT ID: 7380200089

Gross Stand Volume MBF: 141

Photo Number: B103-050

Legal Description: T71S R90E Sec. 30

UNIT DEVELOPMENT

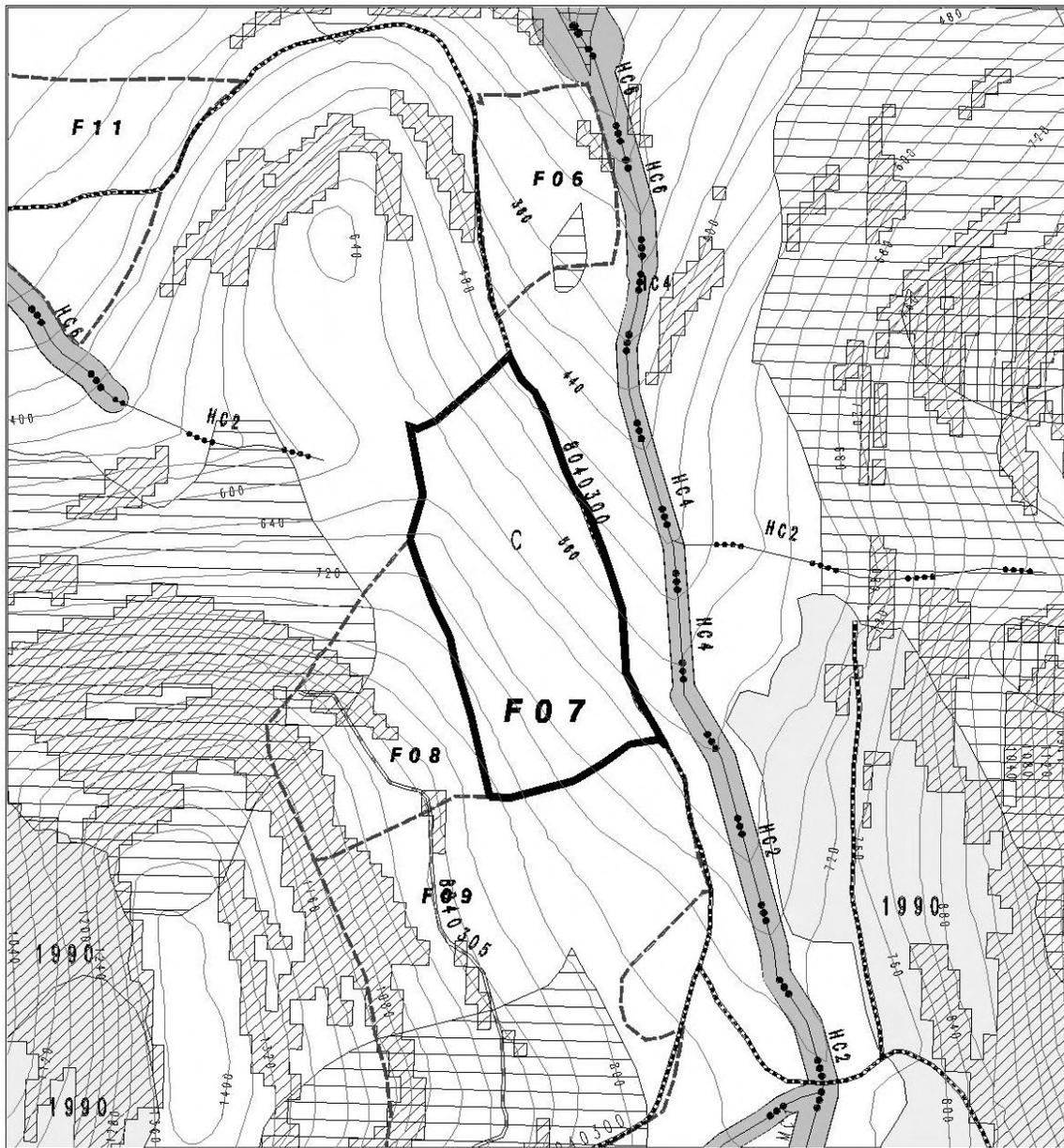
Stand Management Objectives: Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8040300 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class III stream along east boundary will require directional felling away from the slope-break buffer.**National Forest System (NFS) Roads:** No new NFS road construction required.**Temporary Roads:** None.

RESOURCE CONCERNS & MITIGATION

Aquatics:**Concern/Protection Measures:** Stream 1b - Class III HC6 East: Slope break buffer required. BMP 12.6, 12.6a, 13.16**Botany:****Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** Proximity of shell midden site, KET-100. Site is located north of Unit F06 and will not be affected.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern /Protection Measures:** 5 acres are mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension is required over the entire yarding distance for the entire unit (S&W 112-I.A.8; BMP 13.9).**Wildlife:****Concern/Protection Measures:** Marten: Less than 1 acre of high-value marten habitat in unit – does not require protection. Adjacent to beach fringe: measure 1,000 feet slope distance from mean high tide to north boundary to ensure unit is not within required beach fringe.

Appendix 2

Traitors Cove Record of Decision Unit Card: F07



December 04, 2006

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|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MNI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F07**

LUD: ML

Stand Number: 738020068

Planned Acres: 13

Gross Volume per acre MBF: 24.2

Gross Stand Volume MBF: 314.6

Photo Number: B103-051

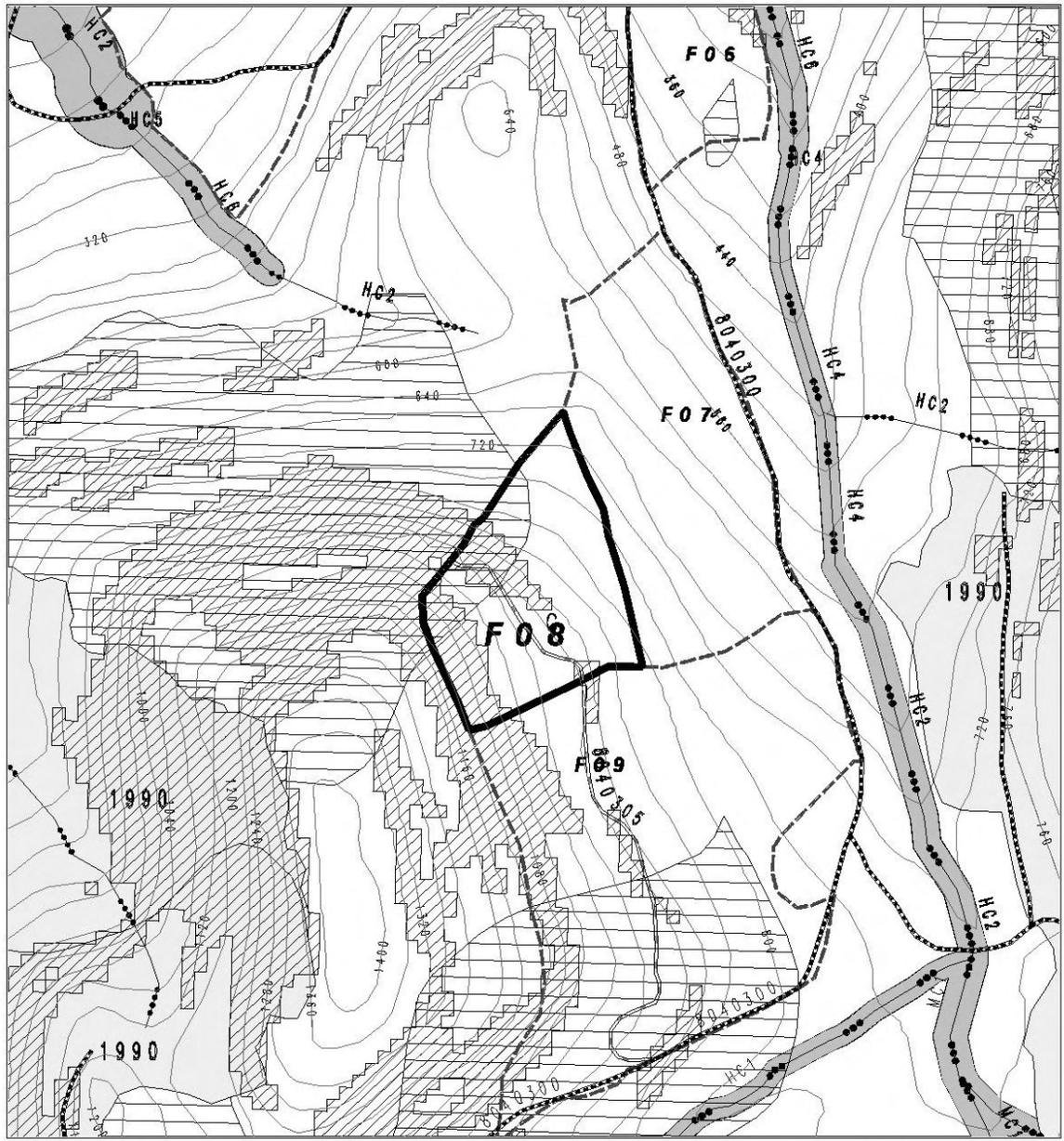
Assigned FACT ID: 7380200068

Legal Description: T71S R90E Sec. 30

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8040300 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations.**National Forest System (NFS) Roads:** No new NFS roads required.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern:** No resource concerns were identified.**Botany:****Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** 7 acres are mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension is required over the entire yarding distance for the western half of the unit (S&W 112-I.A.8; BMP 13.9).**Wildlife:****Concern:** No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: F08



December 04, 2006

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|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F08

LUD: ML

Stand Number: 738020068

Planned Acres: 8

738020077

Gross Volume per acre MBF: 19.9

Assigned FACT ID: 7380200085

Gross Stand Volume MBF: 159.2

Photo Number: B103-051 Legal Description: T71S R90E Sec. 30

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8040305 Road. Partial suspension will be achieved throughout unit. 1 acre of high-value marten habitat will be reserved from harvest and located relative to external boundaries of the settings to minimize operational difficulties.
National Forest System (NFS) Roads: Approximately 0.25 mile of new road required from Unit F09, including 300 feet of full bench/end haul construction on slopes averaging 85 percent.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

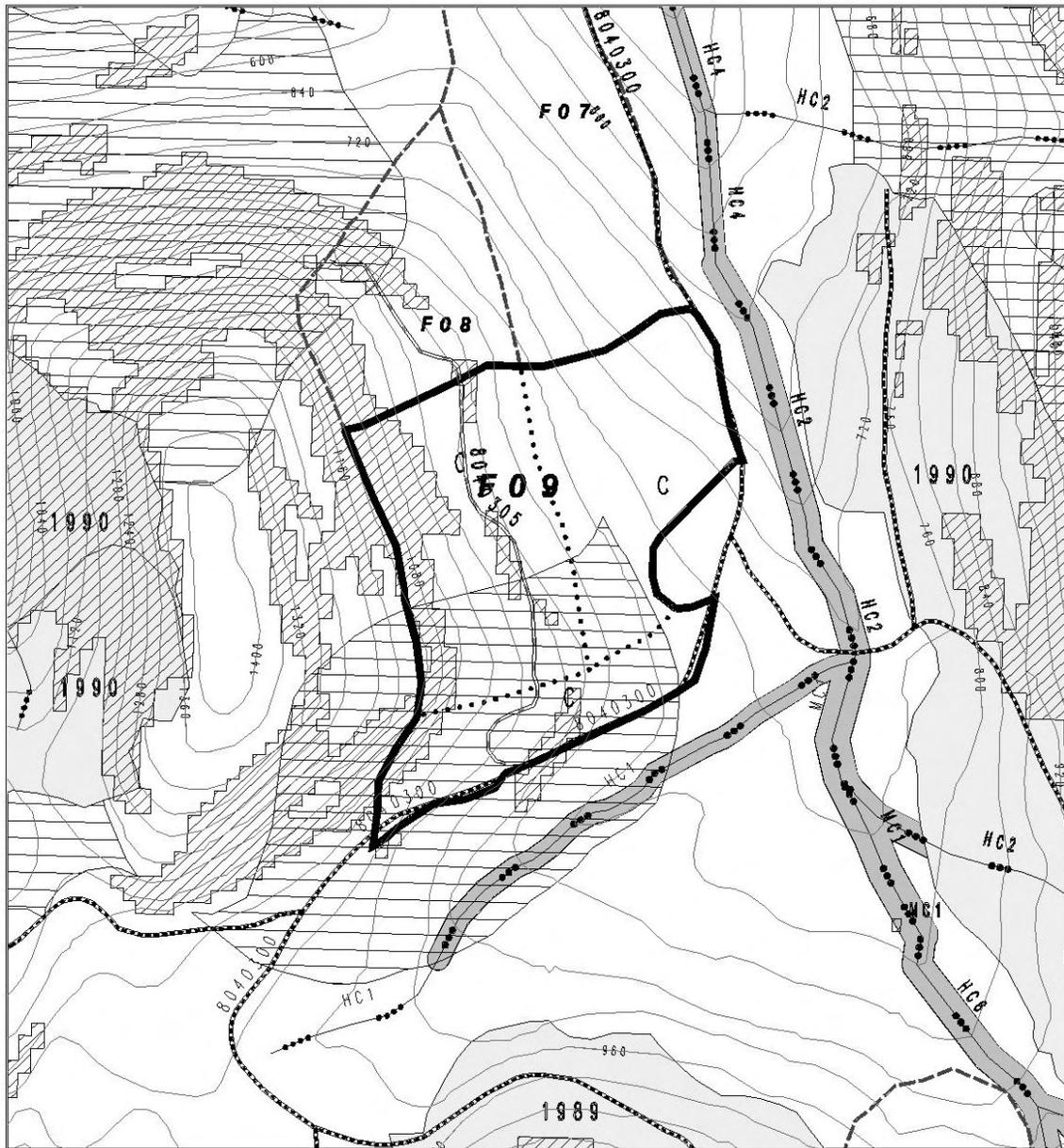
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: All 8 acres are mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension is required over the entire yarding distance for the entire unit (S&W 112-I.A.8; BMP 13.9).
 All slopes over 72 percent have been field verified and found to be stable enough for harvest with partial suspension or better; approximately 2.6 acres (BMP 13.5, 13.9).

Wildlife:
Concern/Protection Measures: 2 acres of high-value marten habitat; must retain 1 acre of high-value marten habitat. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F09



December 04, 2006

- | | | | |
|------------------------|---------------------------------|--------------------------|---|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warden Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | Map created from GIS Data. This Map may not meet national map accuracy standards. |
| Selected Unit Boundary | Setting Line and Logging System | Prior Harvest by Year | |

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F09

LUD: ML

Stand Number: 738020060
738020068

Planned Acres: 27

Gross Volume per acre MBF: 18.1

Gross Stand Volume MBF: 488.7

Photo Number: B103-051 052

Assigned FACT ID: 7380200086

Legal Description: T71S R90E Sec. 30

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8040305 Road and the existing 8040300 Road. Partial suspension will be achieved throughout unit. 5.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).
National Forest System (NFS) Roads: Approximately 0.15 mile of new construction required on easy terrain. Location incorporates switchback and approx. 20-foot cut near BoP.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

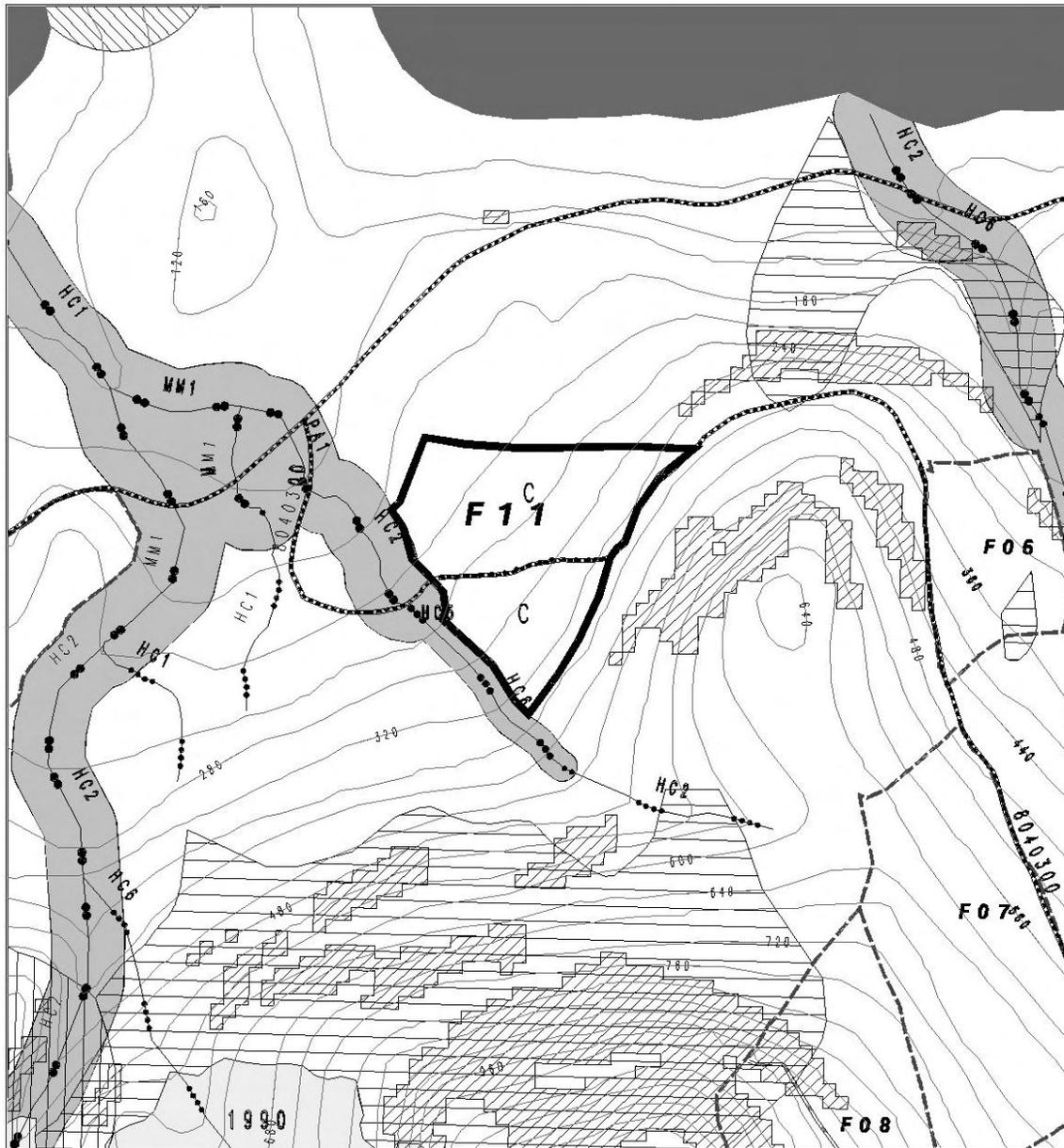
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: 19 acres are mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum partial suspension is required over the entire yarding distance for the western 2/3 of the unit (S&W 112-I.A.8; BMP 13.9).
 All slopes over 72 percent have been field verified and found to be stable enough for harvest with partial suspension or better; approximately 4.4 acres (BMP 13.5, 13.9).

Wildlife:
Concern/Protection Measures: 11 acres of high-value marten habitat; must retain 5.5 acres of high-value marten habitat – recommend west of (above) road junction. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F11



December 04, 2006

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|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet

0 .1 0.2 Miles

TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F11**

LUD: ML

Stand Number: 738020078

Planned Acres: 8

Photo Number: B103-050

Assigned FACT ID: 7380200091

Gross Volume per acre MBF: 26.0

Legal Description: T71S R90E Sec. 30

Gross Stand Volume MBF: 208

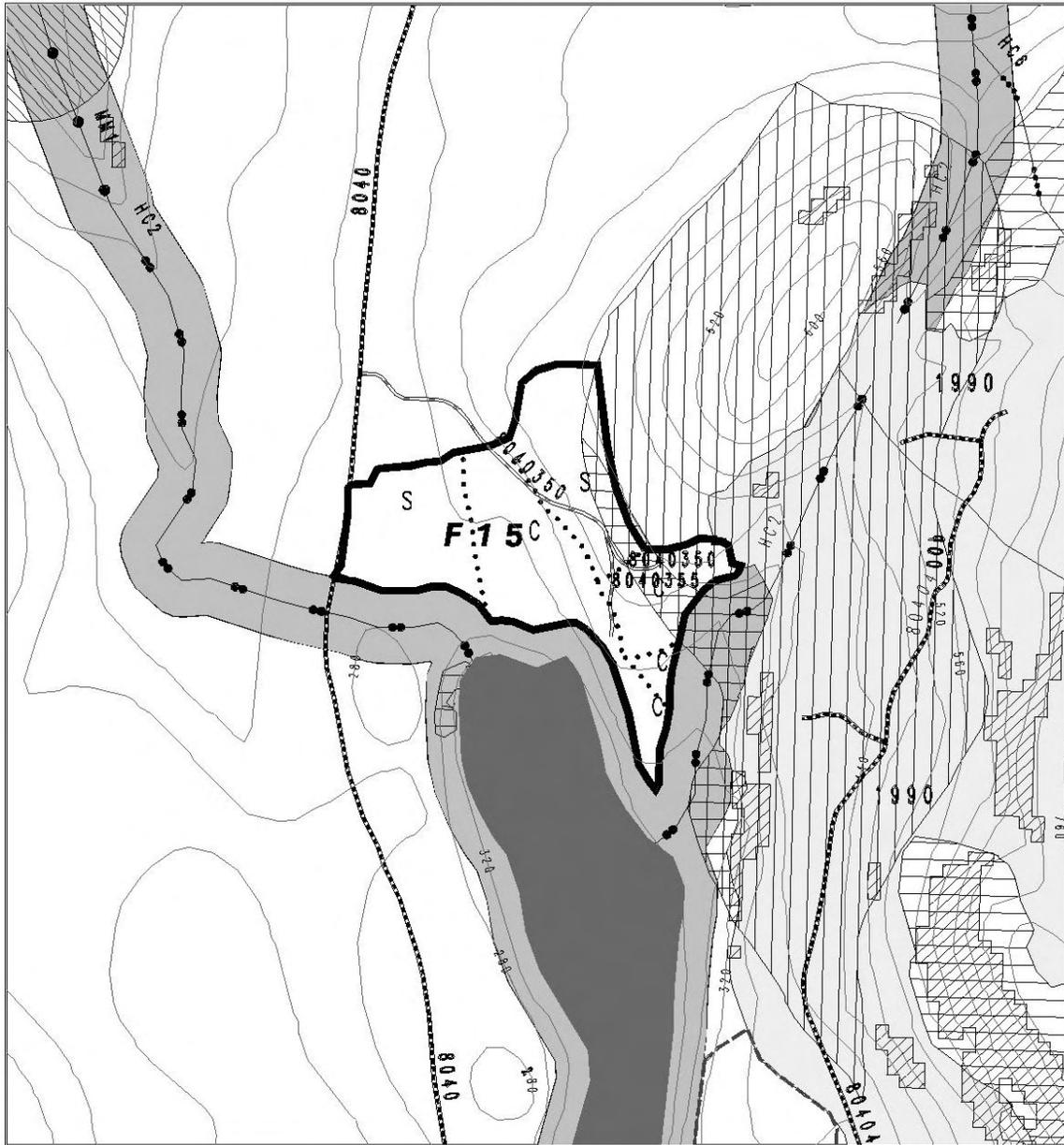
UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8040300 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class II stream along SW boundary, north of the 8040300 Road, will require directional felling away from the no-cut riparian buffer. A Class III stream along SW boundary, south of the 8040300 Road, will require directional felling away from the slope-break buffer.**National Forest System (NFS) Roads:** No new NFS road construction required.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1a – Class II HC2 west: 100-foot no-cut buffer required.

Stream 1b - Class III HC5/HC6 southwest: Slope break buffer required. BMP 12.6, 12.6a, 13.16

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** Proximity of shell midden site, KET-100. Site is located north of Unit F11 and will not be affected.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:****Concern/Protection Measures:** Adjacent to beach fringe. Measure 1,000 feet slope distance from mean high tide to north boundary to ensure unit is not within required beach fringe.

Appendix 2

Traitors Cove Record of Decision Unit Card: F15



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | NMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F15

LUD: ML

Stand Number: 740010023
740010039

Planned Acres: 15

Gross Volume per acre MBF: 18.3

Gross Stand Volume MBF: 274.5

Photo Number: C102-024

Assigned FACT ID: 740100047

Legal Description: T71S R90E Sec. 25

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a shovel from the existing 8040 Road, and using a shovel and short-span skyline cable from the newly constructed 8040350 and 8040355 Roads. A Class II stream and lake along the southwest to southeast boundary will require directional felling away from the no-cut riparian buffer. 1 acre of high-value marten habitat will be reserved from harvest and located relative to external boundaries of the settings to minimize operational difficulties.

National Forest System (NFS) Roads: Approximately 0.28 mile of new construction required, mostly on easy terrain except for one 250-foot full bench/end haul segment on 50-80 percent slopes incorporating an 18 percent favorable grade, and another 120-foot full bench/end haul segment on 65 percent slopes.

Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:

Concern/Protection Measures: Class II stream 1a – HC2 southeast: 100-foot no-cut buffer required.

Class II stream 2a – HC2 southwest: 100-foot no-cut buffer required.

Lake – south: 100-foot no-cut buffer required.

Botany:

Concern: No resource concerns were identified.

Geology, Karst, and Caves:

Concern: No resource concerns were identified.

Heritage:

Concern: No resource concerns were identified.

Lands:

Concern: No resource concerns were identified.

Recreation:

Concern: No resource concerns were identified.

Scenery:

Concern: No resource concerns were identified.

Soils:

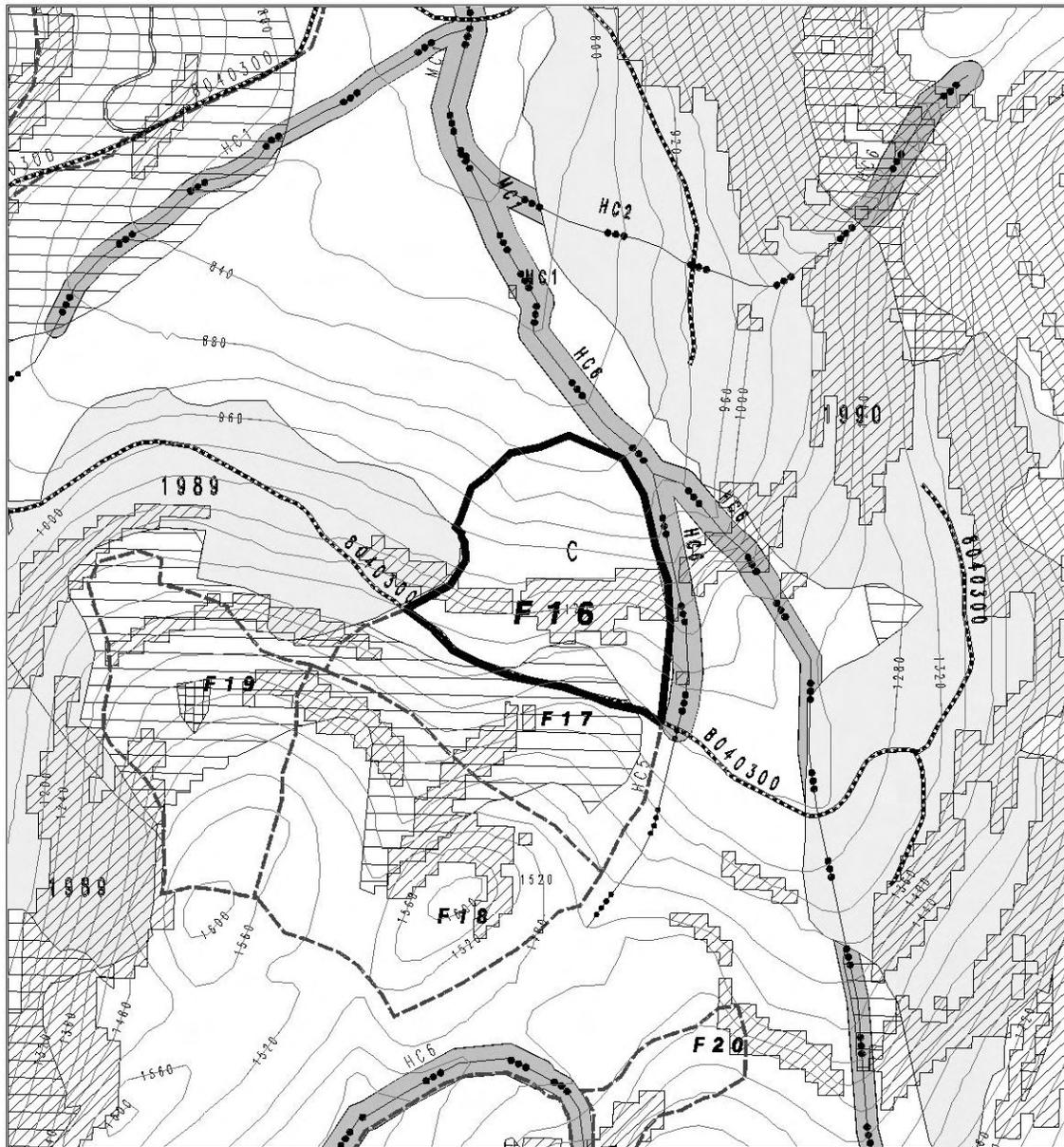
Concern: Exclude from harvest all acreages in the northeastern portion of the unit exceeding 60% slope to avoid areas with a very high massmovement index (BMP 13.2, 13.5). On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:

Concern/Protection Measures: 2 acres of high-value marten habitat. Must retain 1 acre of high-value marten habitat. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F16



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F16**

LUD: TM

Stand Number: 738020061

Planned Acres: 11

Gross Volume per acre MBF: 27.6

Assigned FACT ID: 7380200082

Gross Stand Volume MBF: 303.6

Photo Number: B103-053

Legal Description: T71S R90E Sec. 36

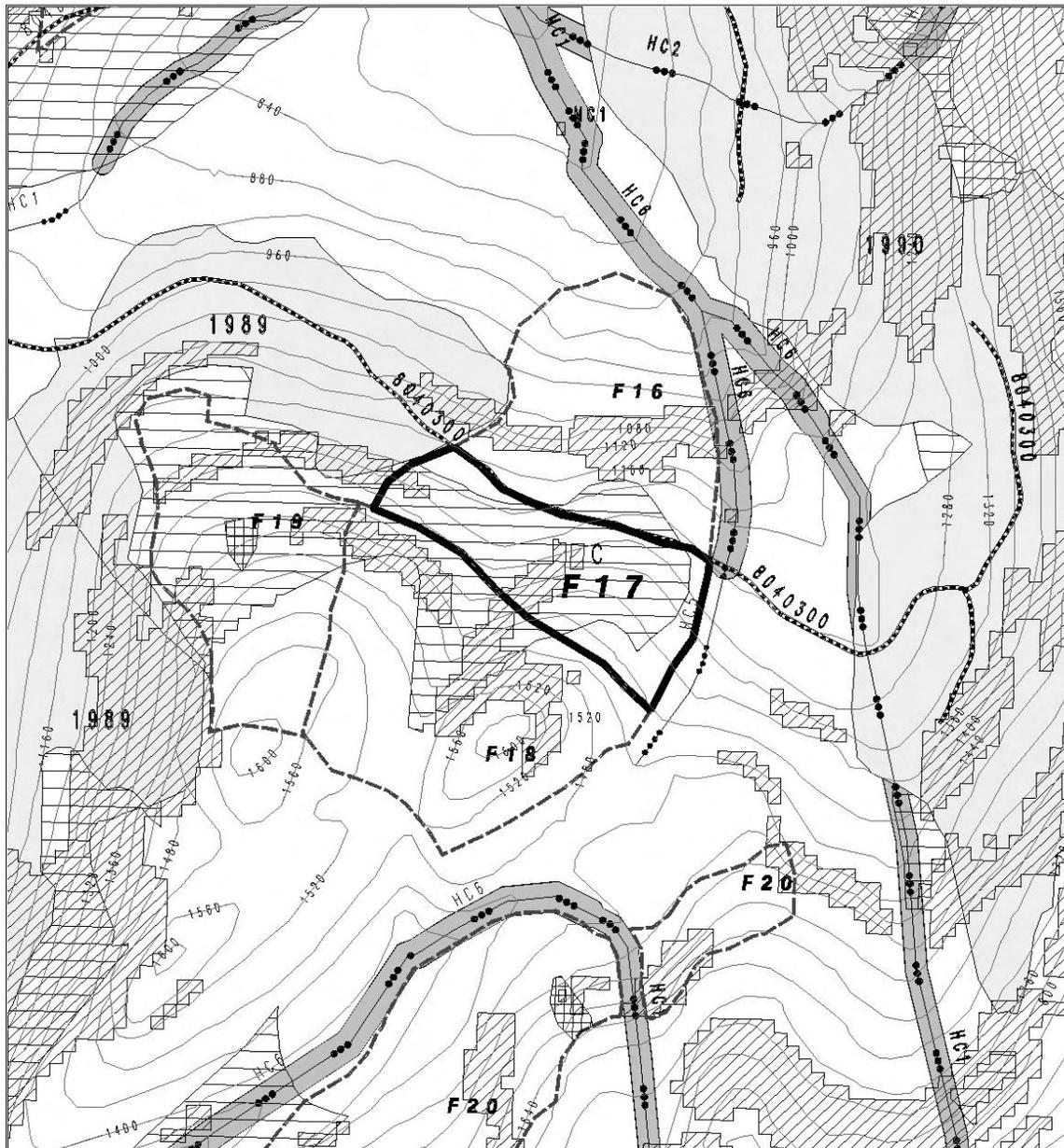
UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8040300 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class III stream along the east boundary will require directional felling away from the slope-break buffer. 0.5 acre of high-value marten habitat will be reserved from harvest (see wildlife section below).

National Forest System (NFS) Roads: No new NFS road construction required.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1b – Class III HC6: Slope break buffer required to form east unit boundary.**Botany:****Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** 2.7 acres over 72 percent slope have been field verified and found to be stable enough for harvest (BMP 13.5), including 1 acre mapped as containing McGilvery soils. Minimum of partial suspension required over the entire length of the yarding distance for this 2.7 acre area . (S&W 112-I.A.8; BMP 13.9)**Wildlife:****Concern/Protection Measures:** 1 acre of high-value marten habitat. 0.5 acre high-value marten habitat retention to be combined with Units F17, F18, and F19 to provide a continuous (larger) marten reserve rather than an isolated 0.5-acre patch unconnected to other habitat (combined total of 8 acres required). Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F17



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F17

LUD: TM-ML

Stand Number: 738020022

Planned Acres: 6

738020061

Gross Volume per acre MBF: 28.2

Assigned FACT ID: 7380200083

Gross Stand Volume MBF: 169.2

Photo Number: B103-053

Legal Description: T71S R90E Sec. 30

UNIT DEVELOPMENT

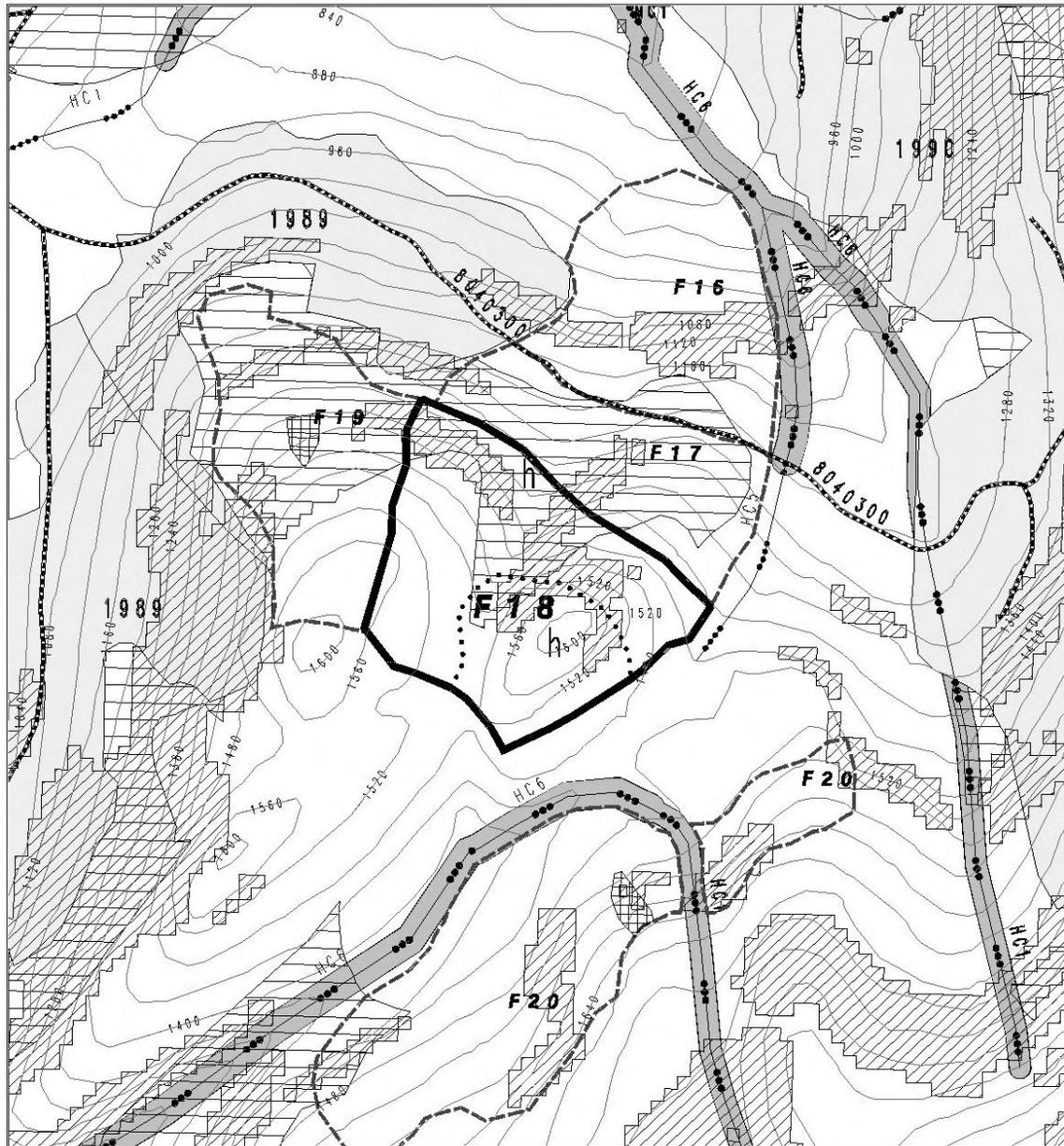
Stand Management Objectives: Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8040300 Road. Partial suspension will be achieved throughout unit. 2.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).**National Forest System (NFS) Roads:** No new NFS road construction required.**Temporary Roads:** None

RESOURCE CONCERNS & MITIGATION

Aquatics:**Concern/Protection Measures:** Class IV HC5 east of unit; slope-break no-cut buffer to form east unit boundary.**Botany:****Concern/Protection Measures:** A population of *Tiarella trifoliata* var. *laciniata* (lacinate three-leaf foamflower), one individual, exists in the middle of F17. This rare plant is designated imperiled to critically imperiled in the State of Alaska. If possible, combine high-value marten habitat in the same location as the rare plant. If this is not possible, this population would be negatively affected.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** 5 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance (S&W 112-I.A.8). Minimum of partial suspension is required for the entire length of the yarding distance for the entire unit (BMP 13.9). All acres over 72 percent slope have been field verified and found to be stable enough for harvest, approximately 1.8 acres (BMP 13.5, 13.9).**Wildlife:****Concern/Protection Measures:** 5 acres of high-value marten habitat. 2.5 acres high-value marten habitat retention to be combined with Units F16, F18, and F19 to provide a continuous (larger) marten reserve rather than several isolated patches unconnected to other habitat (combined total of 8 acres required). Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F18



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | WMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet

0 .1 0.2 Miles

TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F18

LUD: ML

Stand Number: 738020022

Planned Acres: 15

738020061

Gross Volume per acre MBF: 25.3

Assigned FACT ID: 7380200084

Gross Stand Volume MBF: 379.5

Photo Number: B103-053

Legal Description: T71S R90E Sec. 31

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a helicopter to transport logs to the existing 8040300 Road. Full suspension will be achieved throughout unit. 2 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Class IV HC5 east of unit; slope-break buffer required to form northeast unit boundary.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

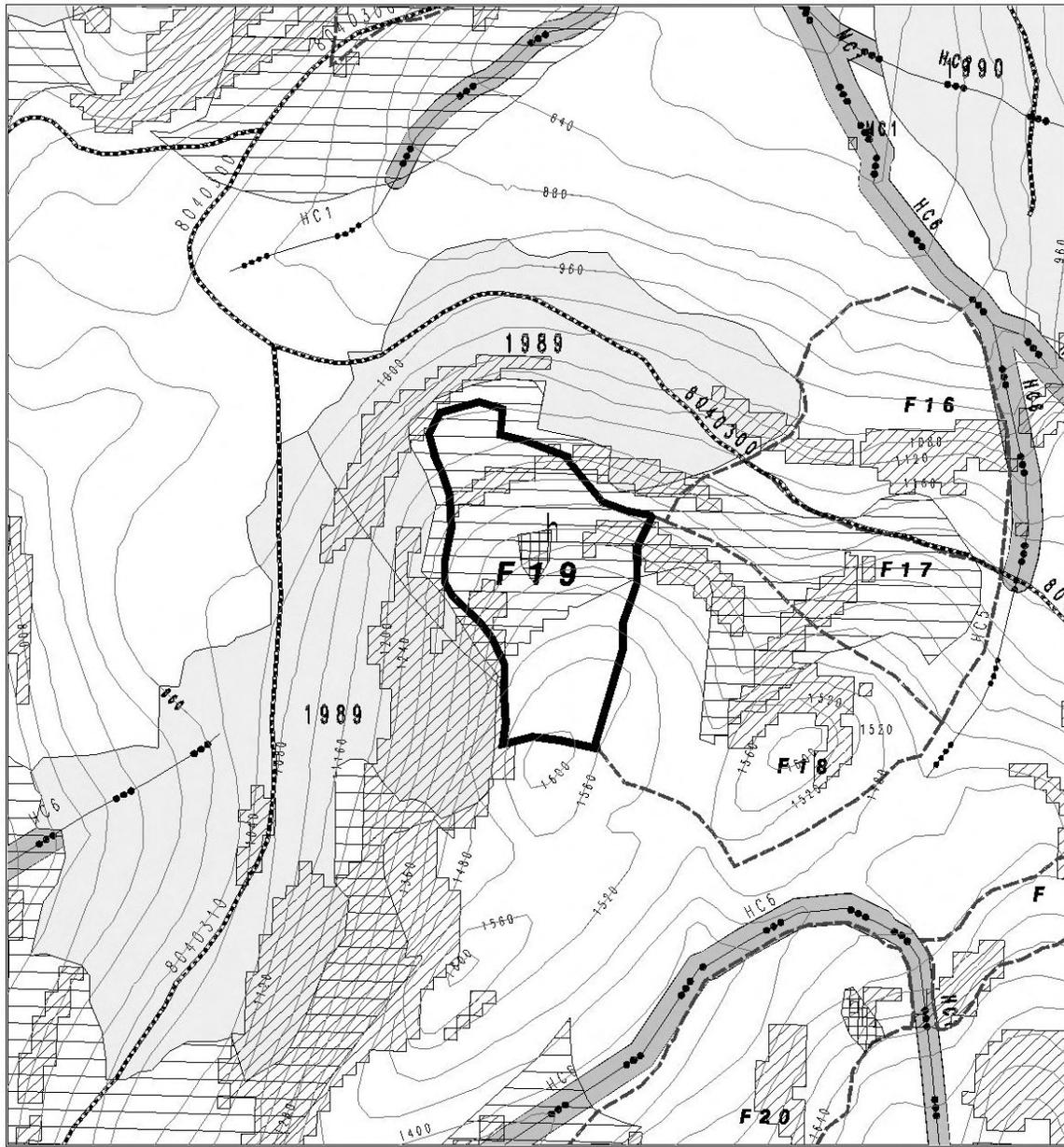
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: 14 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance(S&W 112-I.A.8) . Minimum of partial suspension required over the entire length of the yarding distance for the entire unit (BMP 13.9); full suspension will be achieved with helicopter yarding. All acres over 72 percent slope have been field verified and found to be stable enough for harvest with partial suspension or better; approximately 8.2 acres (BMP 13.5, 13.9).

Wildlife:
Concern/Protection Measures: 4 acres of high-value marten habitat. 2 acres high-value marten habitat retention to be combined with Units F16, F17, and F19 to provide a continuous (larger) marten reserve rather than several isolated patches unconnected to other habitat (combined total of 8 acres required). Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F19



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F19

LUD: ML

Stand Number: 738020022

Planned Acres: 9

738020061

Gross Volume per acre MBF: 29.6

Assigned FACT ID: 7380200085

Gross Stand Volume MBF: 266.4

Photo Number: B103-053

Legal Description: T71S R90E Sec. 31

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a helicopter to transport logs to the existing 8040300 Road. Full suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. 3 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

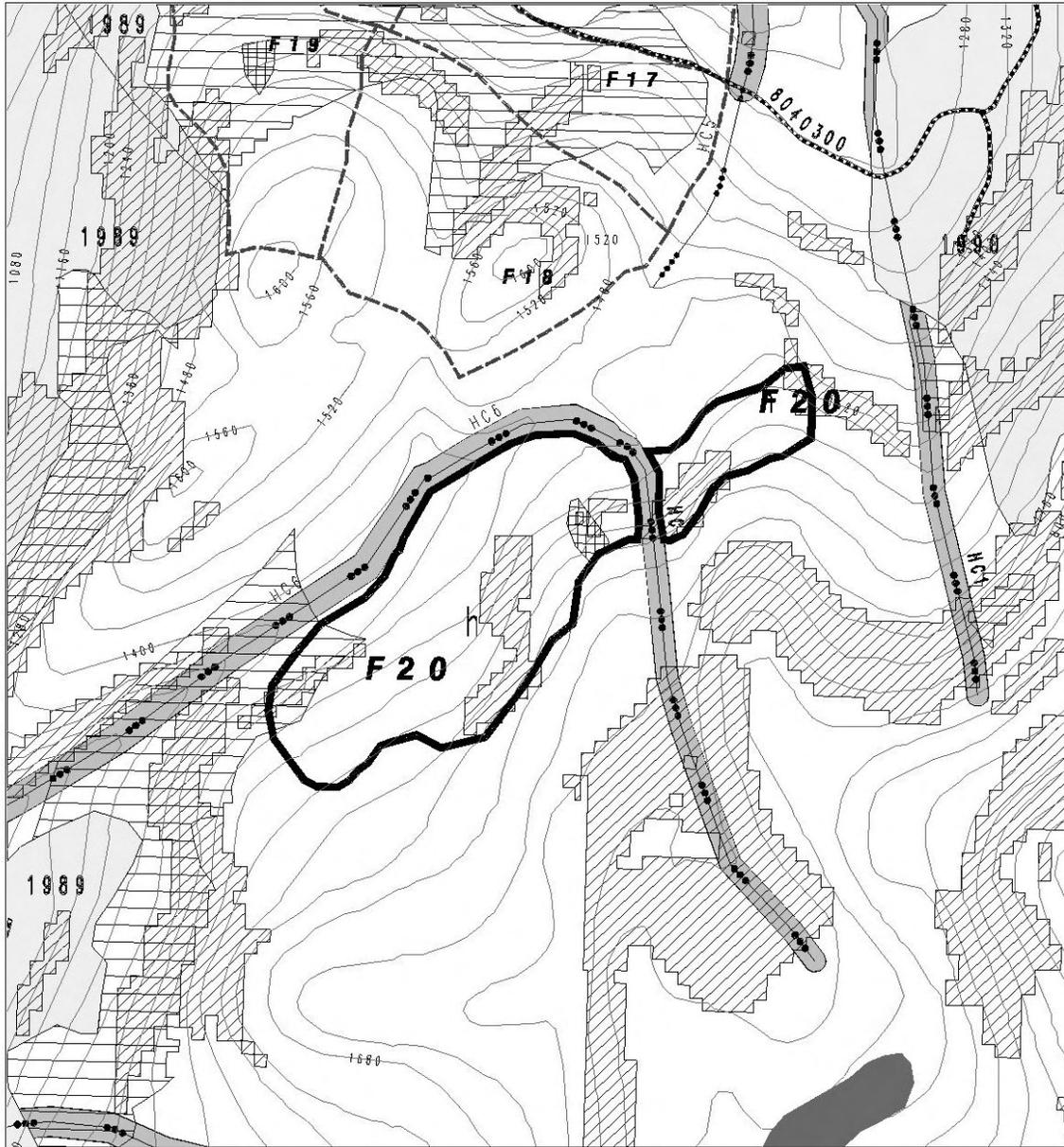
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: Less than 0.5 acre of soil deferral in the center of the unit recommended for classification as unsuitable forest lands (BMP 13.5). All 9 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension required over the entire length of the yarding distance for the entire unit (S&W 112-I.A.8; BMP 13.9); full suspension is achieved with helicopter yarding. All acres over 72 percent slope, except the deferral previously mentioned, have been field verified and found to be stable enough for harvest with partial suspension or better (BMP 13.5, 13.9); approximately 1.9 acres.

Wildlife:
Concern/Protection Measures: 6 acres of high-value marten habitat. 3 acres high-value marten habitat retention to be combined with Units F16, F17, and F18 to provide a continuous (larger) marten reserve rather than several isolated patches unconnected to other habitat (combined total of 8 acres required). Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F20



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warden Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F20

LUD: ML-TM

Stand Number: 738020022
740010016
740010030

Planned Acres: 18
Gross Volume per acre MBF: 17.0
Gross Stand Volume MBF: 306

Assigned FACT ID: 7380200080, 7400100048

Photo Number: B103-052

Legal Description: T71S R90E Sec. 31

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a helicopter to transport logs to the existing 8040300 Road. Full suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class III stream running through the unit and along the northwest boundary will require directional felling away from the slope-break buffer.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream1b – Class III HC1/HC6 bisects and northwest: Slope-break buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

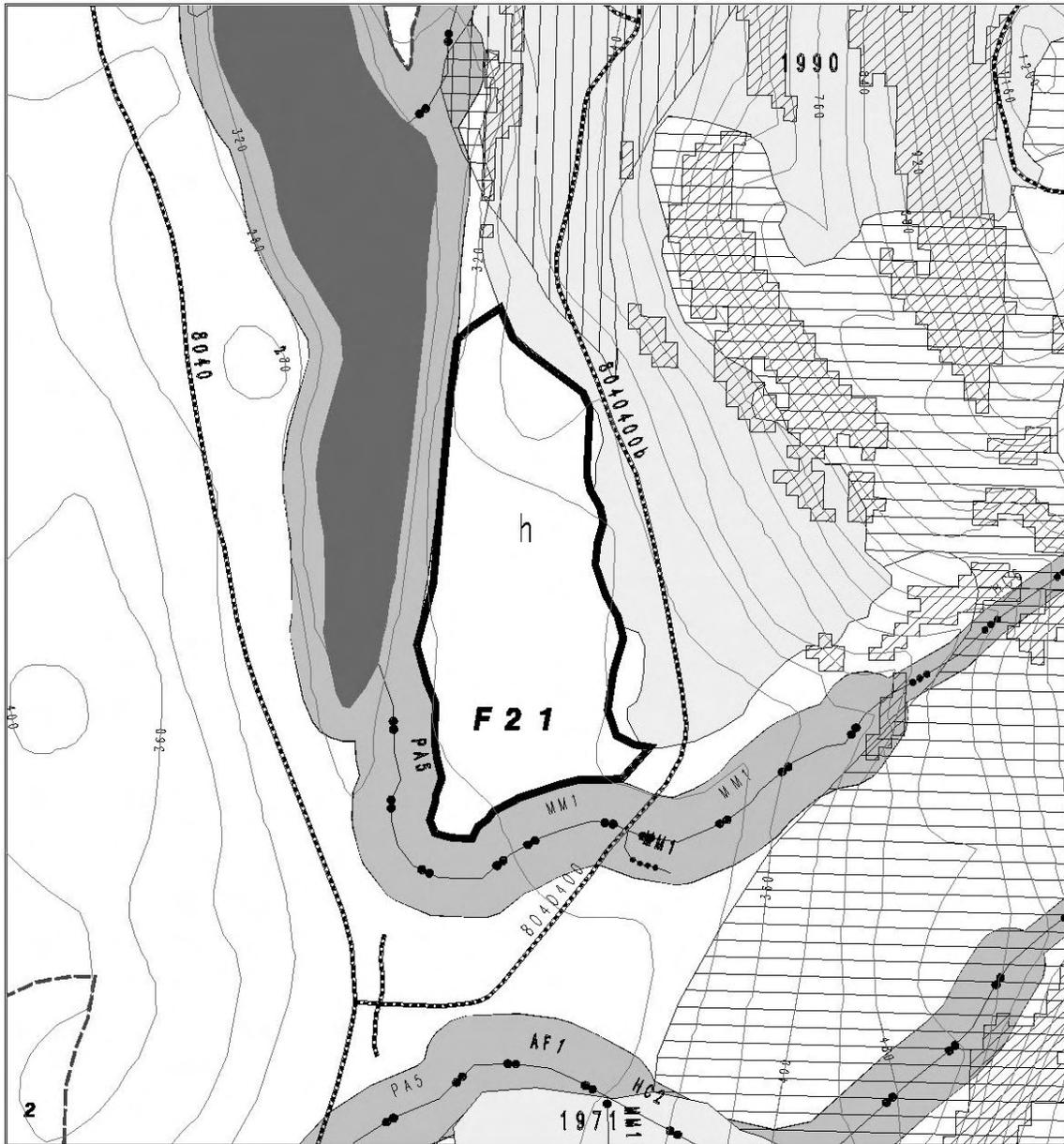
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: Less than 1 acre of soil deferral along southeastern boundary of unit recommended for classification as unsuitable forest lands (BMP 13.5). 12 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension required over the entire length of the yarding distance for the entire unit; (S&W 112-I.A.8; BMP 13.9) full suspension achieved with helicopter yarding. All acres over 72 percent slope, except the deferral previously mentioned, have been field verified and found to be stable enough for harvest with partial suspension or better; approximately 2.6 acres (BMP 13.5, 13.9).

Wildlife:
Concern/Protection Measures: less than 1 acre of high-value marten habitat; no protection required.

Appendix 2

Traitors Cove Record of Decision Unit Card: F21



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MM1 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F21

LUD: ML

Stand Number: 740010023

Planned Acres: 18

740010028

Gross Volume per acre MBF: 15.0

Assigned FACT ID: 7400100046

Gross Stand Volume MBF: 270

Photo Number: C102-022

Legal Description: T71S R90E Sec. 36

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

Logging and Transportation: The timber can be yarded using a helicopter to transport logs to the existing 8040 Road. Full suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class II stream along south boundary, and the lake along the west boundary, will require directional felling away from the no-cut riparian buffer.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II MM1 south: 120-foot no-cut buffer required.
 Stream 1a – Class II PA5 southwest: 100-foot no-cut buffer required
 Lake – west: 100-foot no-cut buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

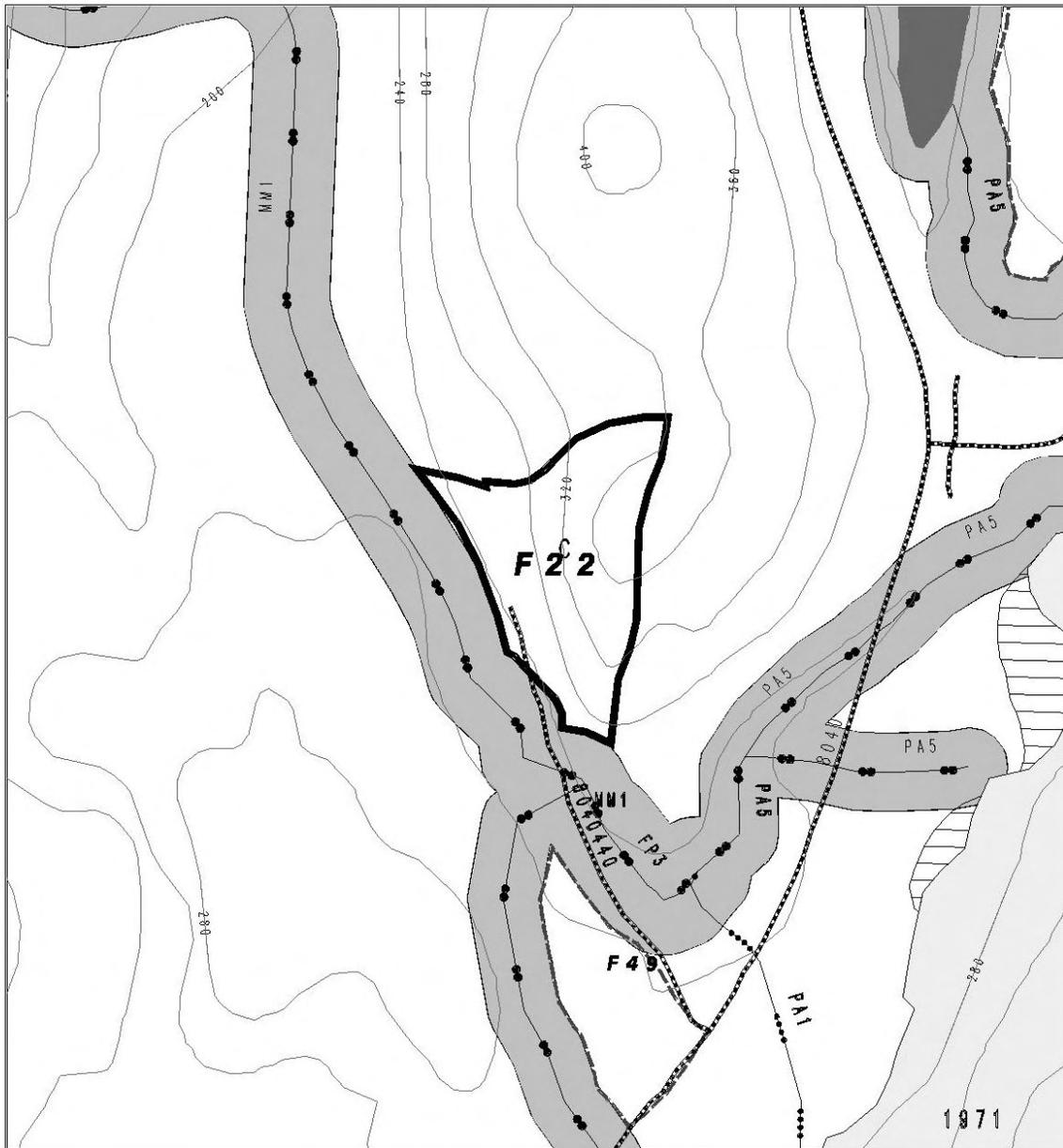
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: F22



December 04, 2006

- | | | | | | | | |
|--|---------------------------------|--|--------------------|--|--------------------------|--|---------------------------|
| | Class I Stream | | Unit in ROD | | Soil Deferral | | High Value Marten Habitat |
| | Class II Stream | | Existing NFS Road | | Riparian Management Area | | Slopes > 72% |
| | Class III Stream | | Proposed NFS Road | | MMI 4 Soil | | Eagle Nest Buffer |
| | Class IV Stream | | Proposed Temp Road | | Water Bodies | | |
| | Selected Unit Boundary | | | | Prior Harvest by Year | | |
| | Setting Line and Logging System | | | | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F22

LUD: ML

Stand Number: 740010037

Planned Acres: 10

Gross Volume per acre MBF: 21.0

Assigned FACT ID: 7400100045

Gross Stand Volume MBF: 210

Photo Number: C102-020

Legal Description: T71S R90E Sec. 36

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8040440 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class II stream along the southwest boundary will require directional felling away from the no-cut riparian buffer.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II MM1 west: 120-foot no-cut buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

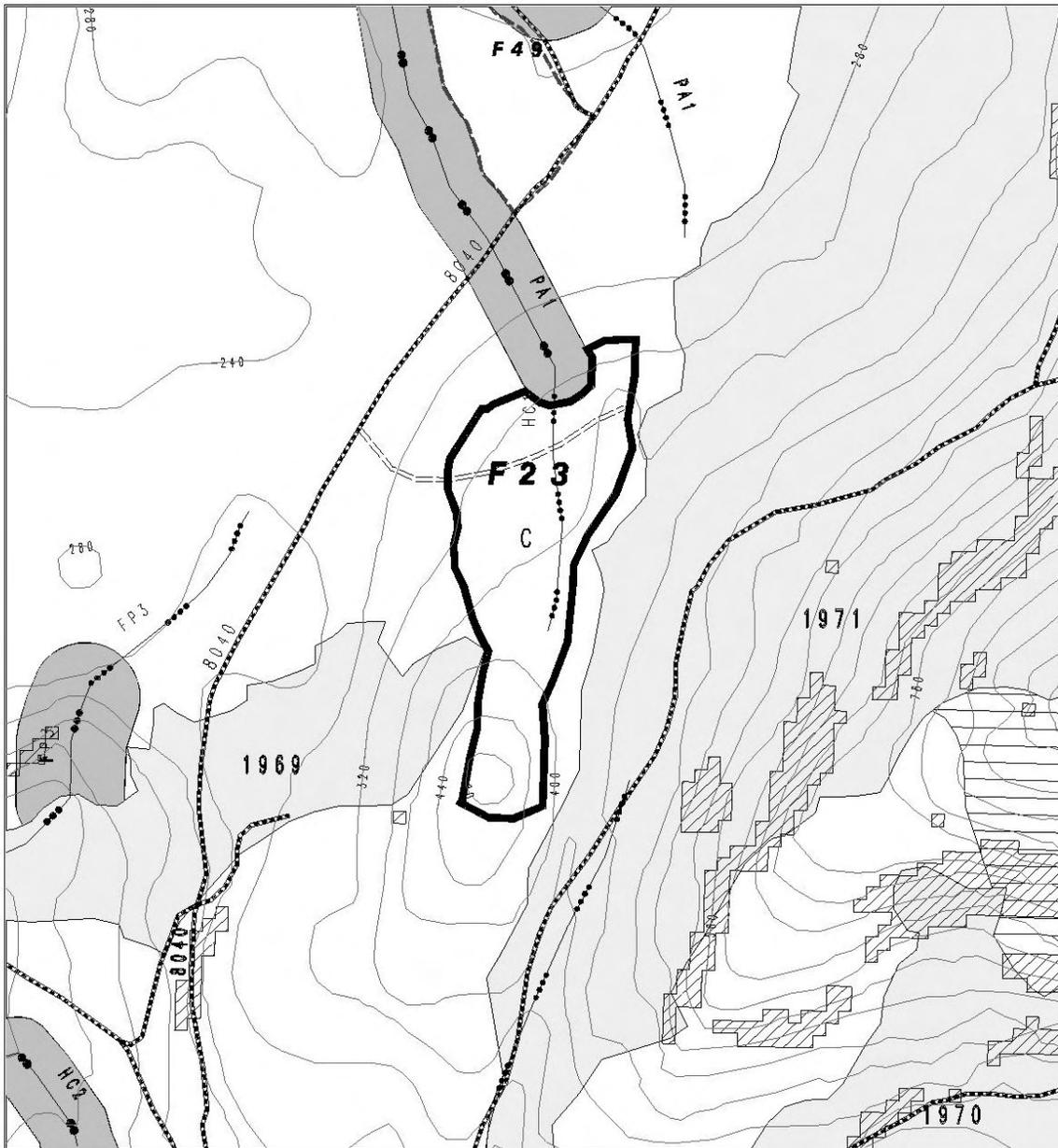
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: F23



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MWI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F23**

LUD: ML

Stand Number: 740010037

Planned Acres: 12

Gross Volume per acre MBF: 11.2

Gross Stand Volume MBF: 134.4

Photo Number: C102-017

Assigned FACT ID: 7400100043

Legal Description: T72S R89E Sec. 1

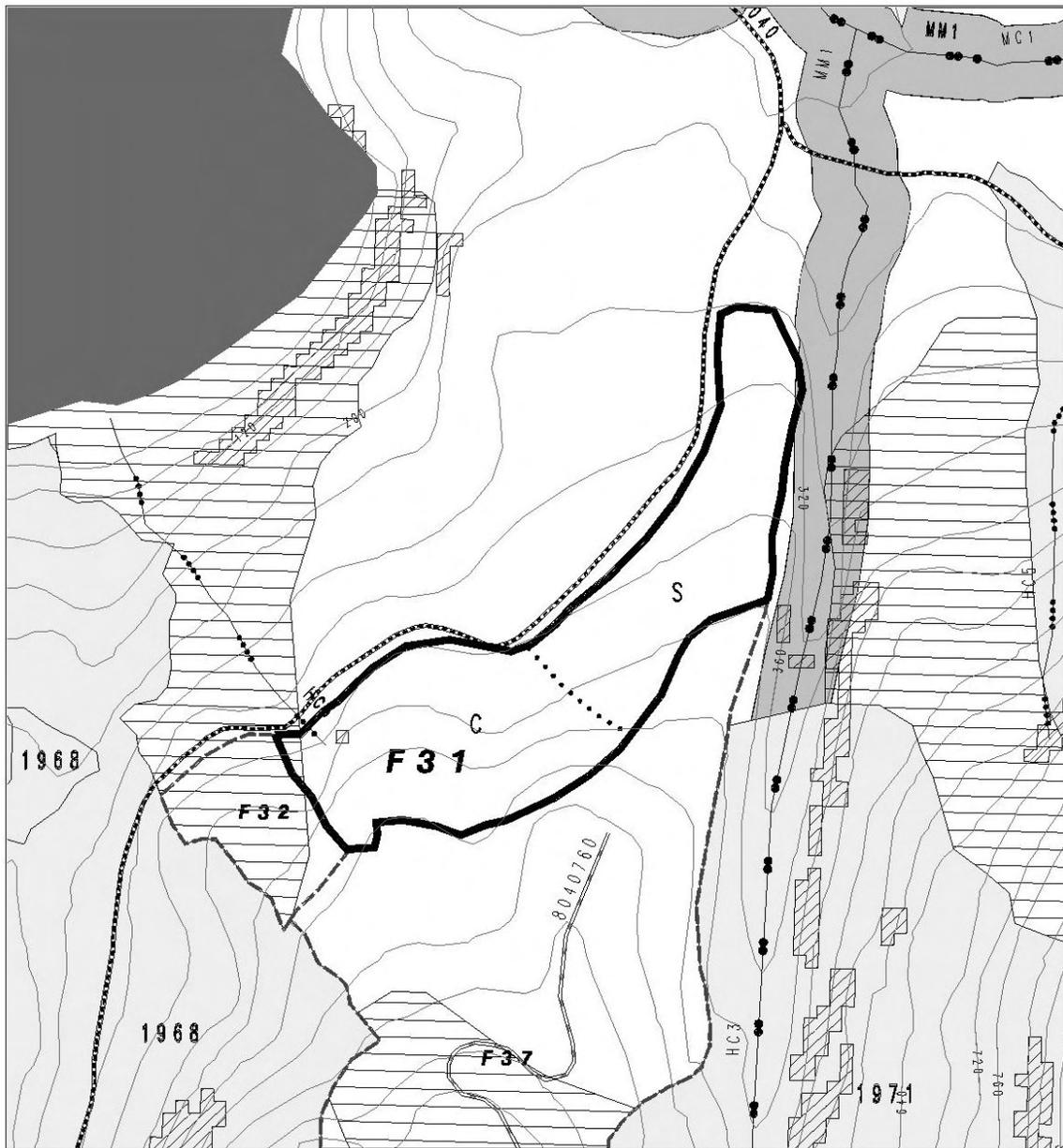
UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the newly constructed temporary road. Partial suspension will be achieved throughout unit. A Class II stream located along north boundary will require directional felling away from the no-cut riparian buffer.**National Forest System (NFS) Roads:** No new NFS road construction required.**Temporary Roads:** Approximately 0.17 mile temporary road will branch off existing 8040 Road.**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1a – Class II PA1 north: 100-foot no-cut buffer.

Stream 1c – Class IV HC1 central: Split yarding or partial suspension required.

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:****Concern/Protection Measures:** A temporary road accessing the unit is within ½ mile of a known eagle nest. Nest will be considered active from March 1 to May 31; if nesting is confirmed, active status will be extended through August 31. If blasting is needed for construction of the road, either along the proposed location or in a nearby existing rock pit, written coordination with the U.S. Fish and Wildlife Service must occur. Timing restrictions for blasting will apply unless a variance is requested and received from the U.S. Fish and Wildlife Service.

Appendix 2

Traitors Cove Record of Decision Unit Card: F31



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F31

LUD: ML

Stand Number: 740020041

Planned Acres: 20

Gross Volume per acre MBF: 13.2

Gross Stand Volume MBF: 264.0

Photo Number: B102-016

Assigned FACT ID: 7400200089

Legal Description: T72S R89E Sec. 1, 12

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest

Silvicultural System: Even-aged management

Regeneration Method: Clearcut. Natural regeneration without site preparation

Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

Logging and Transportation: The timber can be yarded in the southwest half of the unit using a short-span skyline cable from the existing 8040 Road. The timber can be yarded in the northeast half of the unit using a shovel from the existing 8040 Road. Partial suspension will be achieved in the cable-yarded settings. Two roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations. A Class II stream along east boundary will require directional felling away from the no-cut riparian buffer.

National Forest System (NFS) Roads: No new NFS road construction required.

Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:

Concern/Protection Measures: Stream 1A - Class II HC3 east: 100-foot no-cut buffer required.

Stream 2c – Class IV HC5 southwest: Split yarding or partial suspension required.

Botany:

Concern/Protection Measures: A population of *Platanthera orbiculata* (round-leaf orchid), 11 individuals, exists in the middle of the unit. This species is designated imperiled by the State of Alaska. Due to logging methods, this population would be negatively affected.

Geology, Karst, and Caves:

Concern: No resource concerns were identified.

Heritage:

Concern: No resource concerns were identified.

Lands:

Concern: No resource concerns were identified.

Recreation:

Concern: No resource concerns were identified.

Scenery:

Concern: No resource concerns were identified.

Soils:

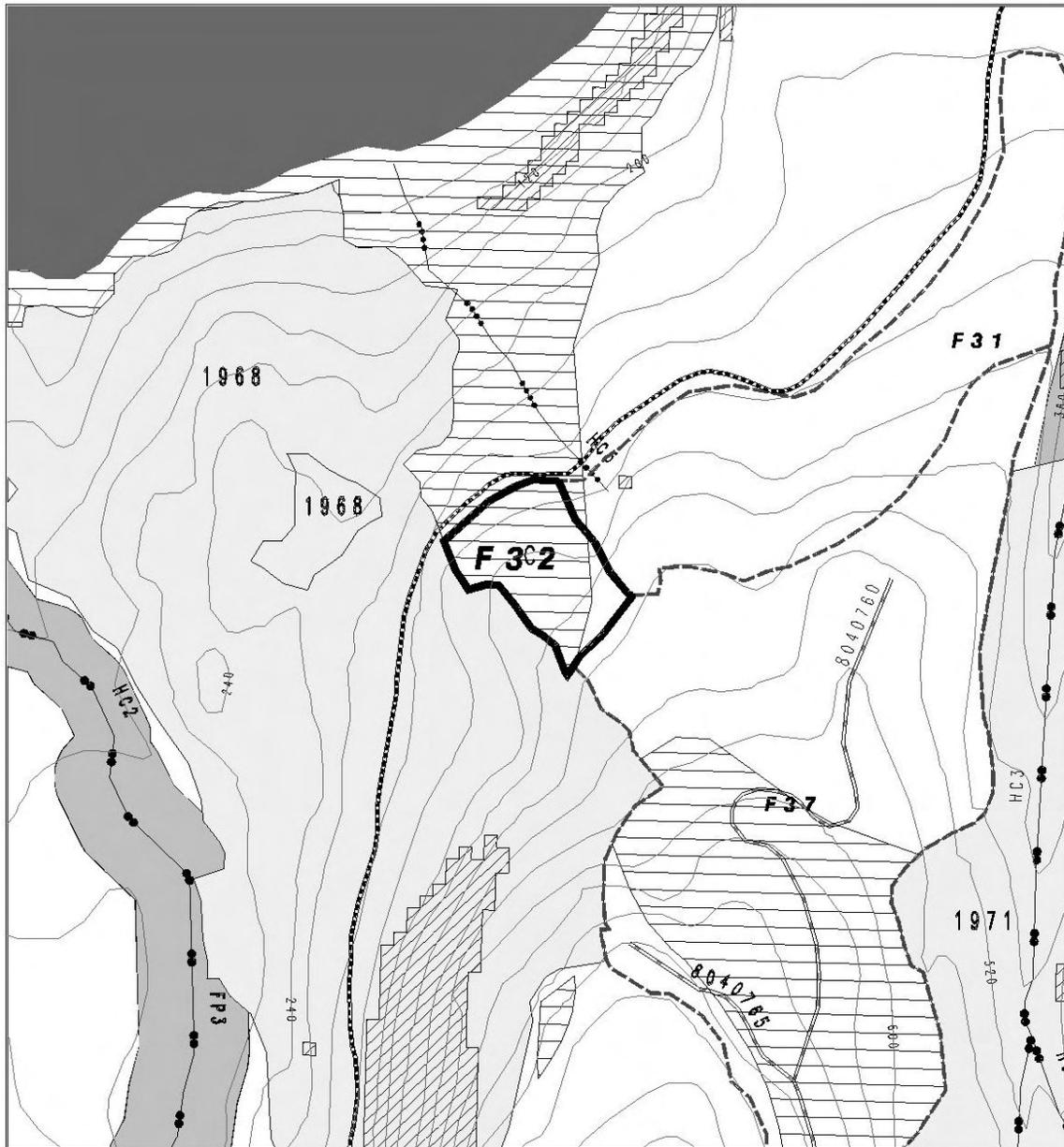
Concern: On shovel-yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:

Concern/Protection Measures: Less than 1 acre of high-value marten habitat; no protection required.

Appendix 2

Traitors Cove Record of Decision Unit Card: F32



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F32

LUD: ML

Stand Number: 740020039

Planned Acres: 3

Assigned FACT ID: 7400200088

Gross Volume per acre MBF: 37.9

Photo Number: B102-016

Legal Description: T72S R89E Sec. 12

Gross Stand Volume MBF: 113.7

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8040 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. 1.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

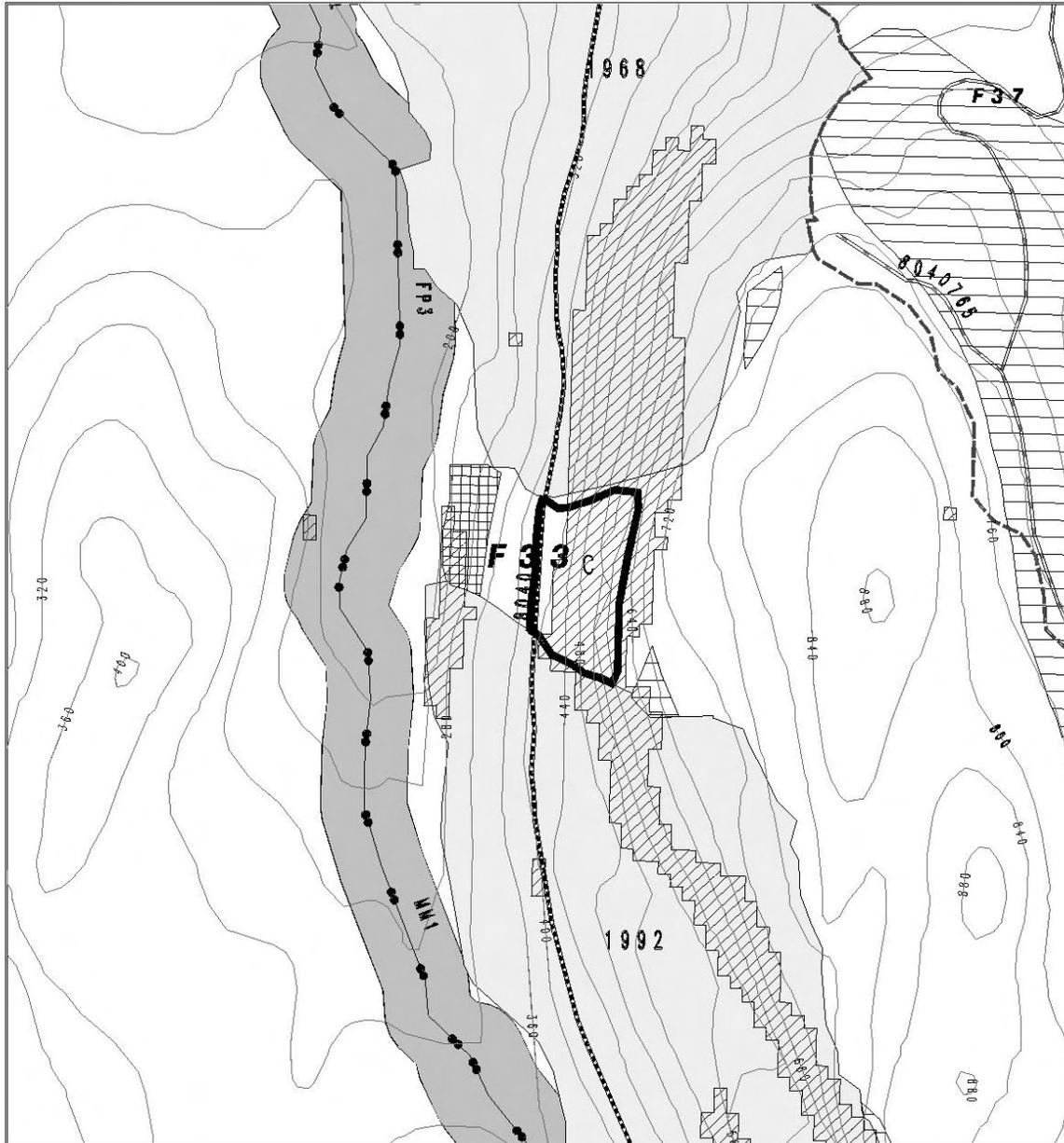
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

Wildlife:
Concern/Protection Measures: 3 acres of high-value marten habitat. Must retain 1.5 acres of high-value marten habitat. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F33



December 22, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F33**

LUD: ML

Stand Number: 740020034

Planned Acres: 4

Gross Volume per acre MBF: 24.2

Gross Stand Volume MBF: 169.2

Photo Number: B102-015

Assigned FACT ID: 7400200086

Legal Description: T72S R89E Sec. 12

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8040 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations.

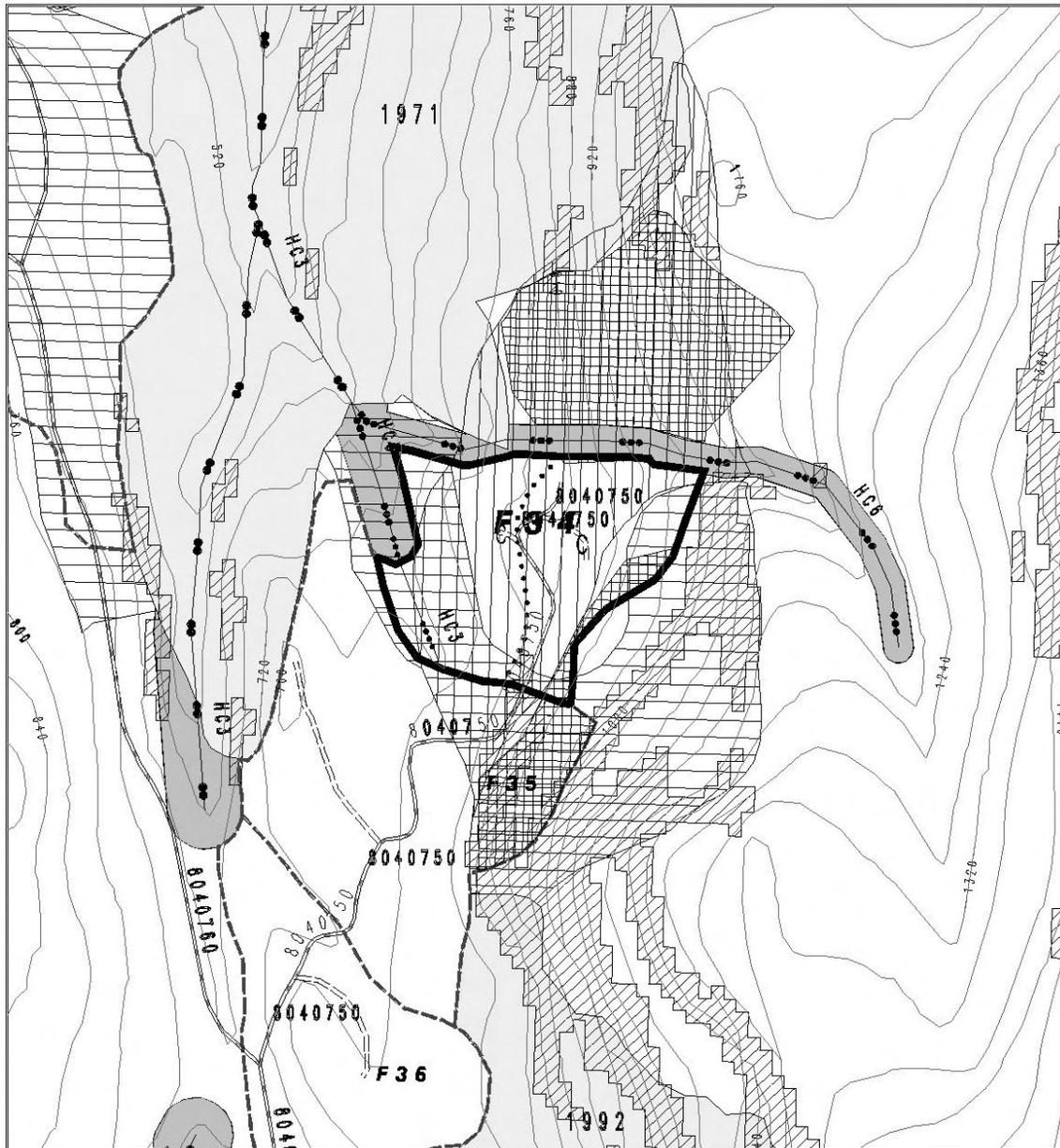
National Forest System (NFS) Roads: No new NFS road construction required.

Temporary Roads: None

RESOURCE CONCERNS & MITIGATION**Aquatics:****Concern/Protection Measures:** No resource concerns were identified.**Botany:****Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** Eastern boundary will be at base of 100 percent slope. Remaining areas within the unit over 72 percent slope, have been field verified and found to be stable enough for harvest with partial suspension or better (BMP 13.5, 13.9)(about 1.5 acres).**Wildlife:****Concern/Protection Measures:** NFS Road 8040000 is the common boundary between the unit and the small Old-growth Habitat Reserve. Ensure the unit boundary does not extend in the Old-growth Reserve.

Appendix 2

Traitors Cove Record of Decision Unit Card: F34



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | NMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet

0 .1 0.2 Miles

TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F34**

LUD: ML

Stand Number: 740020052

Planned Acres: 12

740020053

Gross Volume per acre MBF: 33.6

Assigned FACT ID: 7400200085

Gross Stand Volume MBF: 403.2

Photo Number: C102-009

Legal Description: T72S R89E Sec. 12

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the newly constructed 8040750 Road and the two short temporary roads. Partial suspension will be achieved throughout unit. A Class III stream along the north and northwest boundary will require directional felling away from the slope-break buffer. 2.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).**National Forest System (NFS) Roads:** Approximately 0.18 mile of new construction required from Unit F35, including 400 feet of full bench/end haul on 80 percent slopes, with some drill-and-shoot.**Temporary Roads:** Approximately .04 mile of temporary road**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1b – Class III HC3 west: Slope-break buffer required.

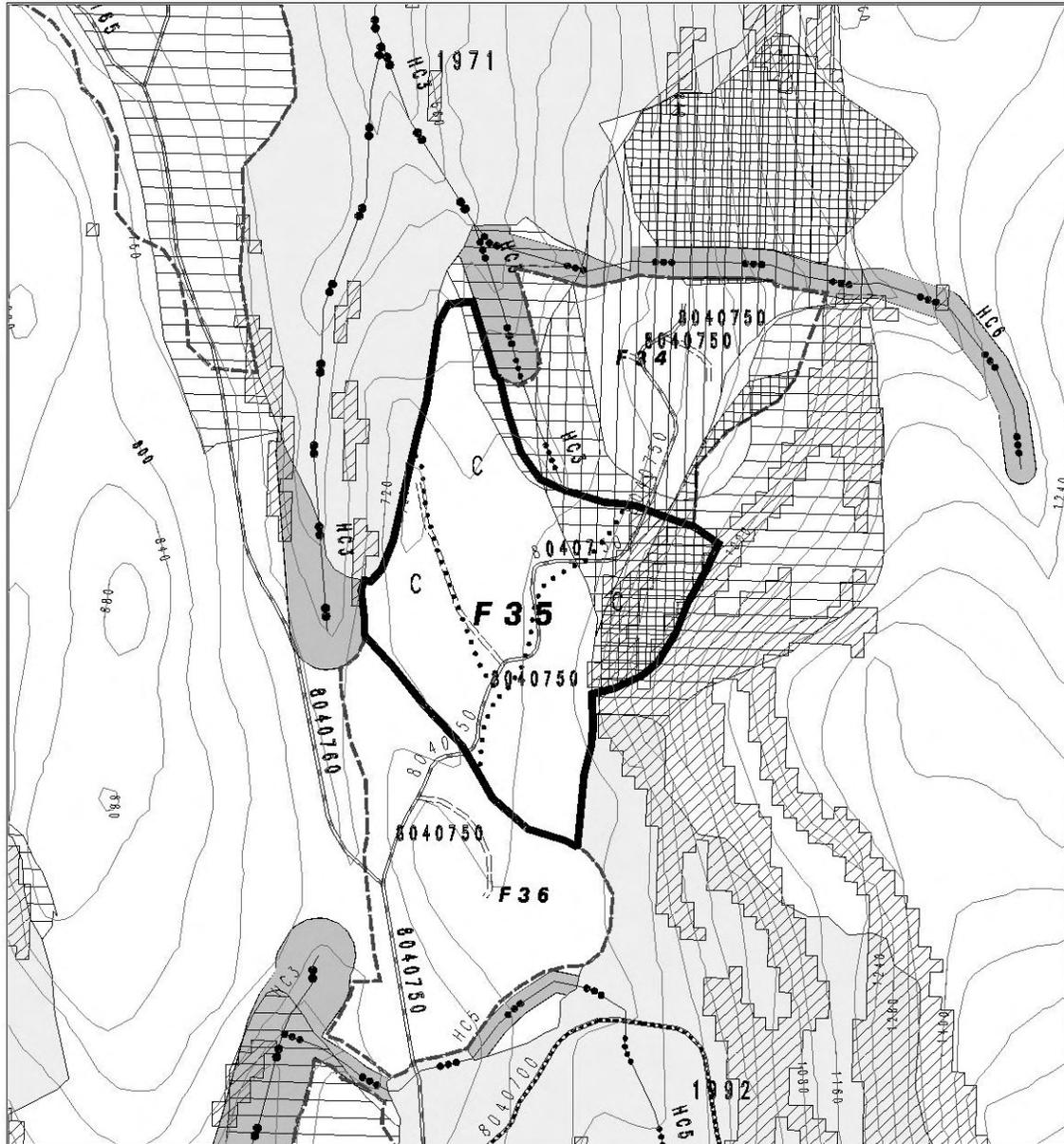
Stream 1c – Class IV HC3 southwest: Split yarding or partial suspension required.

Stream 2b – Class III HC6 north: Slope-break buffer required. Additional windfirm buffer required due to high windthrow risk – consult with fisheries personnel during unit layout.

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** 0.8 acre of soil deferral along southeast boundary recommended for classification as unsuitable forest lands (BMP 13.2, 13.5). Other slopes over 72 percent have been field verified and found to be stable enough for harvest with partial suspension or better (BMP 13.5, 13.9) (approximately 2.2 acres). Other areas mapped as MMI4 soils have been evaluated for slope stability and are recommended as suitable for harvest (BMP 13.2, 13.5)**Wildlife:****Concern/Protection Measures:** 5 acres of high-value marten habitat. Must retain 2.5 acres of high-value marten habitat – recommend some near Class IV stream at southwest corner of unit and some near the east boundary of unit (this configuration allows connection to high-value marten habitat retention for Unit F35). Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F35



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F35

LUD: ML

Stand Number: 740020054

Planned Acres: 19

740020053

Gross Volume per acre MBF: 31.6

Assigned FACT ID: 7400200084

Gross Stand Volume MBF: 600.4

Photo Number: B102-014

Legal Description: T72S R89E Sec. 12

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8040750 Road and newly constructed temporary road. Partial suspension will be achieved throughout unit. 2.5 acres of high-value marten habitat will be reserved from harvest (see wildlife and soils sections below). A Class II stream along the west boundary will require directional felling away from the no-cut riparian buffer. A Class III stream along the northeast boundary will require directional felling away from the slope-break buffer.
National Forest System (NFS) Roads: 0.15 mile of new construction required from Unit F36, including 100 feet of full bench/end haul on 70 percent slopes.
Temporary Roads: 0.12 mile of temporary road construction.

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1b – Class III HC3 north: Slope-break buffer required.
 Stream 2a – Class II HC3 west: 100-foot no-cut buffer required

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

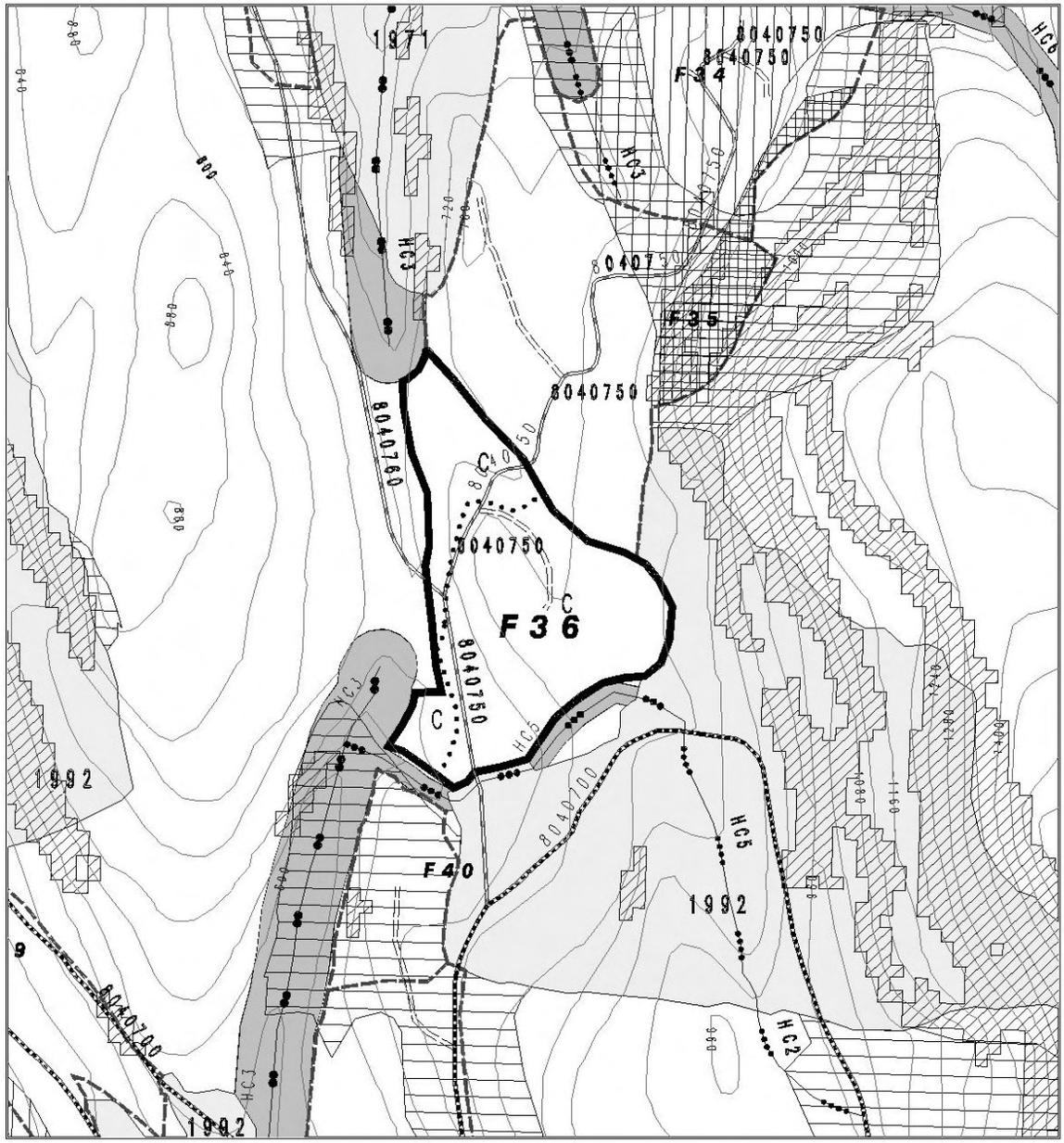
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: 2.3 acres of soil deferral along east boundary recommended for classification as unsuitable forest lands (BMP 13.2, 13.5). Other slopes over 72 percent have been field verified and found to be stable enough for harvest with partial suspension or better (BMP 13.5, 13.9) (approximately 2.1 acres). Other areas mapped as MMI4 soils have been evaluated for slope stability and are recommended as suitable for harvest with partial suspension or better (BMP 13.5, 13.9).

Wildlife:
Concern/Protection Measures: 5 acres of high-value marten habitat. Must retain 2.5 acres of high-value marten habitat – recommend along east boundary to allow connection with high-value marten habitat retention in Unit F34. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F36



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | WMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F36**

LUD: ML

Stand Number: 740020054

Planned Acres: 12

Assigned FACT ID: 7400200083

Gross Volume per acre MBF: 21.4

Photo Number: B102-013

Legal Description: T72S R89E Sec. 12

Gross Stand Volume MBF: 256.8

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the newly constructed 8040750 Road and one temporary road. Partial suspension will be achieved throughout unit. A Class II stream along northwest and southwest boundary will require directional felling away from the no-cut riparian buffer. A Class III stream along the south boundary will require directional felling away from the slope-break buffer.**National Forest System (NFS) Roads:** Approximately 0.24 mile of new construction required, on gentle terrain.**Temporary Roads:** Approximately .08 mile of temporary road construction.**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1b – Class III HC5 south: Slope break buffer required.

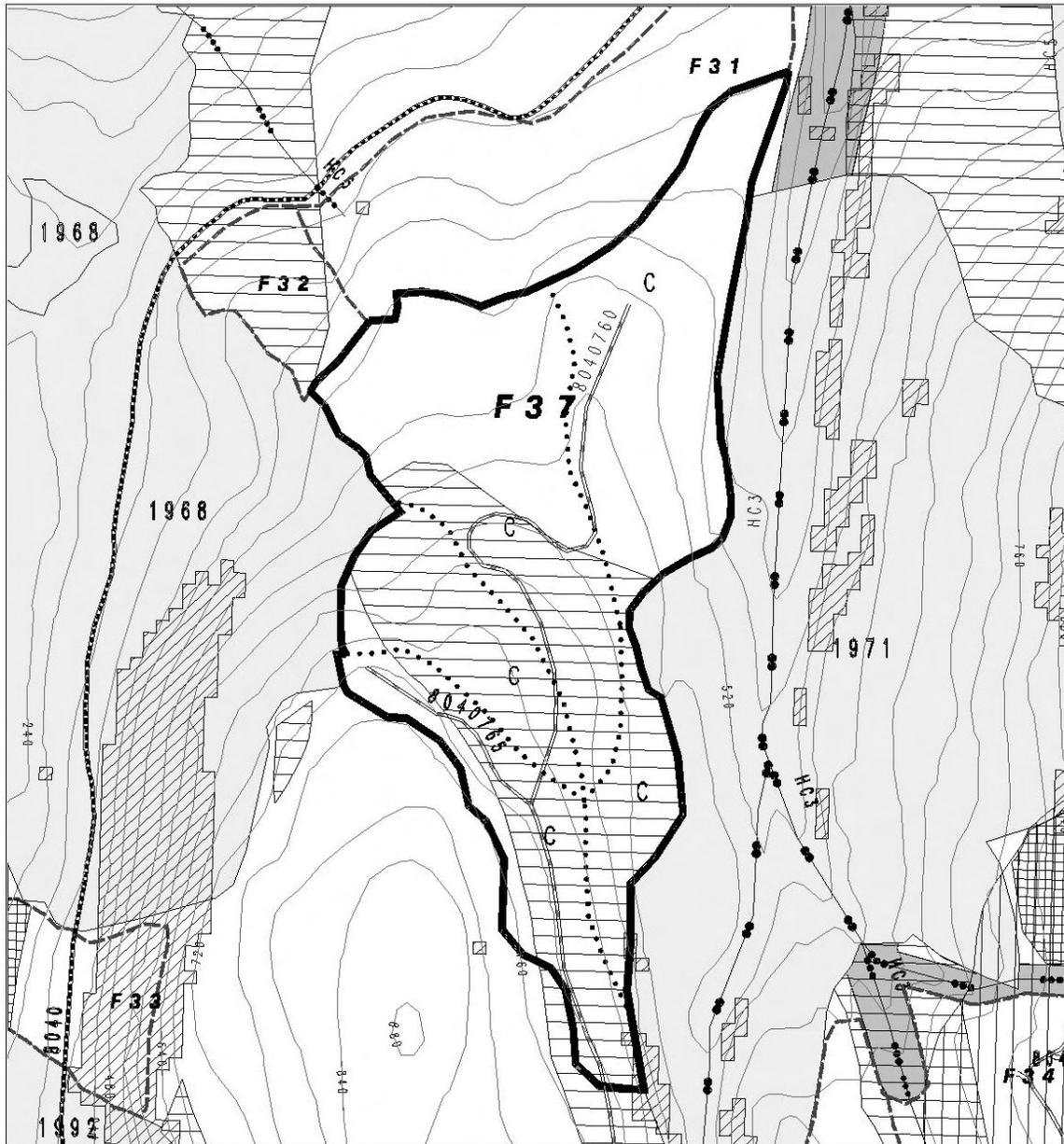
Stream 2a – Class II HC3 north: 100-foot no-cut buffer required.

Stream 3a – Class II HC3 southwest: 100-foot no-cut buffer required.

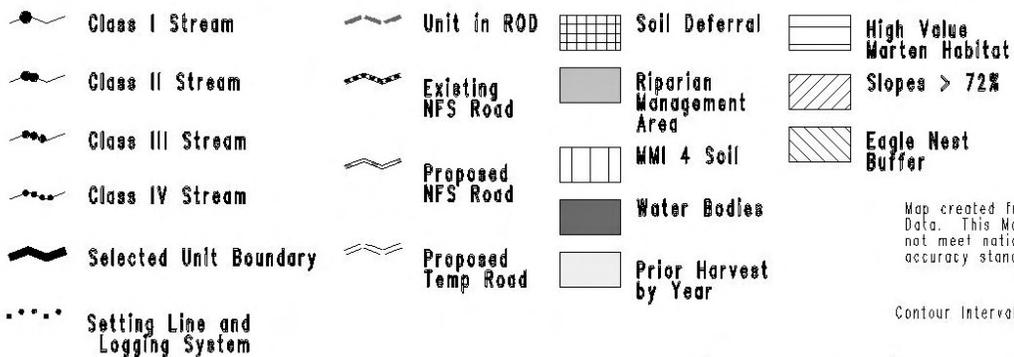
Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:****Concern:** No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: F37



December 22, 2006



Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F37

LUD: ML

Stand Number: 740020041

Planned Acres: 47

740020067

Gross Volume per acre MBF: 20.0

740020069

Gross Stand Volume MBF: 940.0

Assigned FACT ID: 7400200087

Photo Number: B102-015 016

Legal Description: T72S R89E Sec. 12

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8040760 and 8040765 Roads. Partial suspension will be achieved throughout unit. 11 acres of high-value marten habitat will be reserved from harvest and located relative to external boundaries of the settings to minimize operational difficulties.
National Forest System (NFS) Roads: Approximately 1.08 mile of new construction required from Unit F36, mostly on gentle terrain except for 400 feet of full bench/end haul construction.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II HC3 east: 100-foot no-cut buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

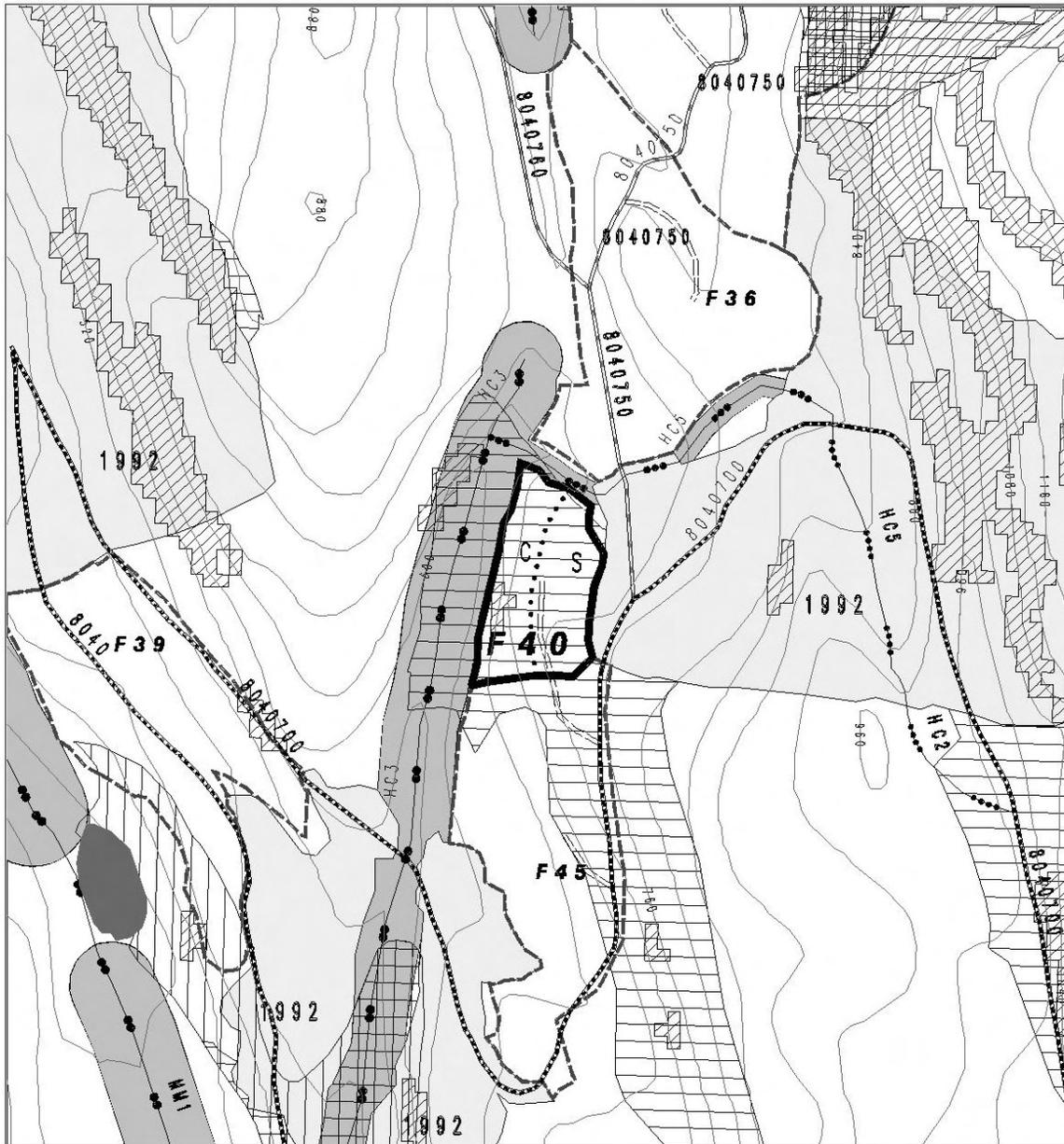
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

Wildlife:
Concern/Protection Measures: 22 acres of high-value marten habitat. Must retain 11 acres of high-value marten habitat. Clumps should retain at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F40



December 22, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. F40**

LUD: ML

Stand Number: 740020058

Planned Acres: 3

Gross Volume per acre MBF: 31.2

Assigned FACT ID: 7400200082

Gross Stand Volume MBF: 93.6

Photo Number: B102-013

Legal Description: T72S R89E Sec. 13

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Area. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a shovel and short-span skyline cable from the newly constructed temporary road which branches from the existing 8040700 Road. Partial suspension will be achieved in the cable yarding area. 1.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section). A Class II stream along west boundary will require directional felling away from the no-cut riparian buffer. A Class III stream along northeast boundary will require directional felling away from the slope-break buffer.

National Forest System (NFS) Roads: No new NFS road construction required.**Temporary Roads:** Approximately 0.11 mile of temporary road construction.**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1a – Class II HC3 west: Greater of 100-foot or slope-break buffer required.

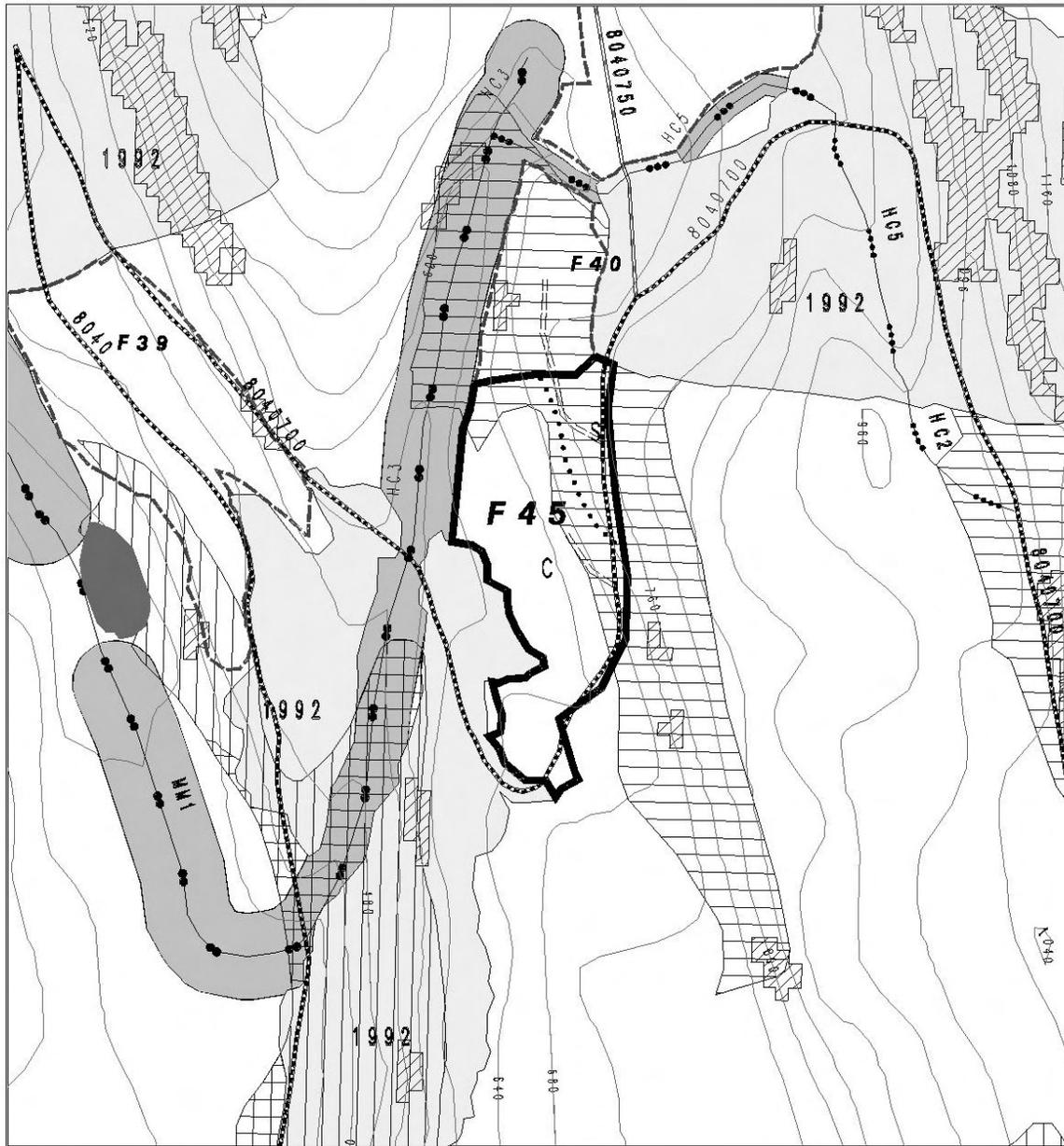
Stream 1c – Class III HC3 north: Slope break buffer required.

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).**Wildlife:**

Concern/Protection Measures: 3 acres high-value marten habitat. Must retain 1.5 acres of high-value marten habitat – recommend combining high-value marten habitat retention with Unit F45 and leaving Unit F40 as the majority of the marten reserve (total of 4 acres required). If recommendation is followed, need for temporary road would be eliminated. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F45



December 22, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F45

LUD: ML

Stand Number: 740020023

Planned Acres: 11

740020058

Gross Volume per acre MBF: 17.5

Assigned FACT ID: 7400200080

Gross Stand Volume MBF: 192.5

Photo Number: B102-013

Legal Description: T72S R89E Sec. 13

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a shovel and short-span skyline cable from the existing 8040700 Road, and the two newly constructed temporary roads which branch from the 8040700 Road. Partial suspension will be achieved in the cable-yarded setting. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. 2.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section). A Class II stream along west boundary will require directional felling away from the no-cut riparian buffer.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: Approximately .04 mile of temporary road construction.

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II HC3 west: Greater of 100-foot or slope-break buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.
Mitigation:

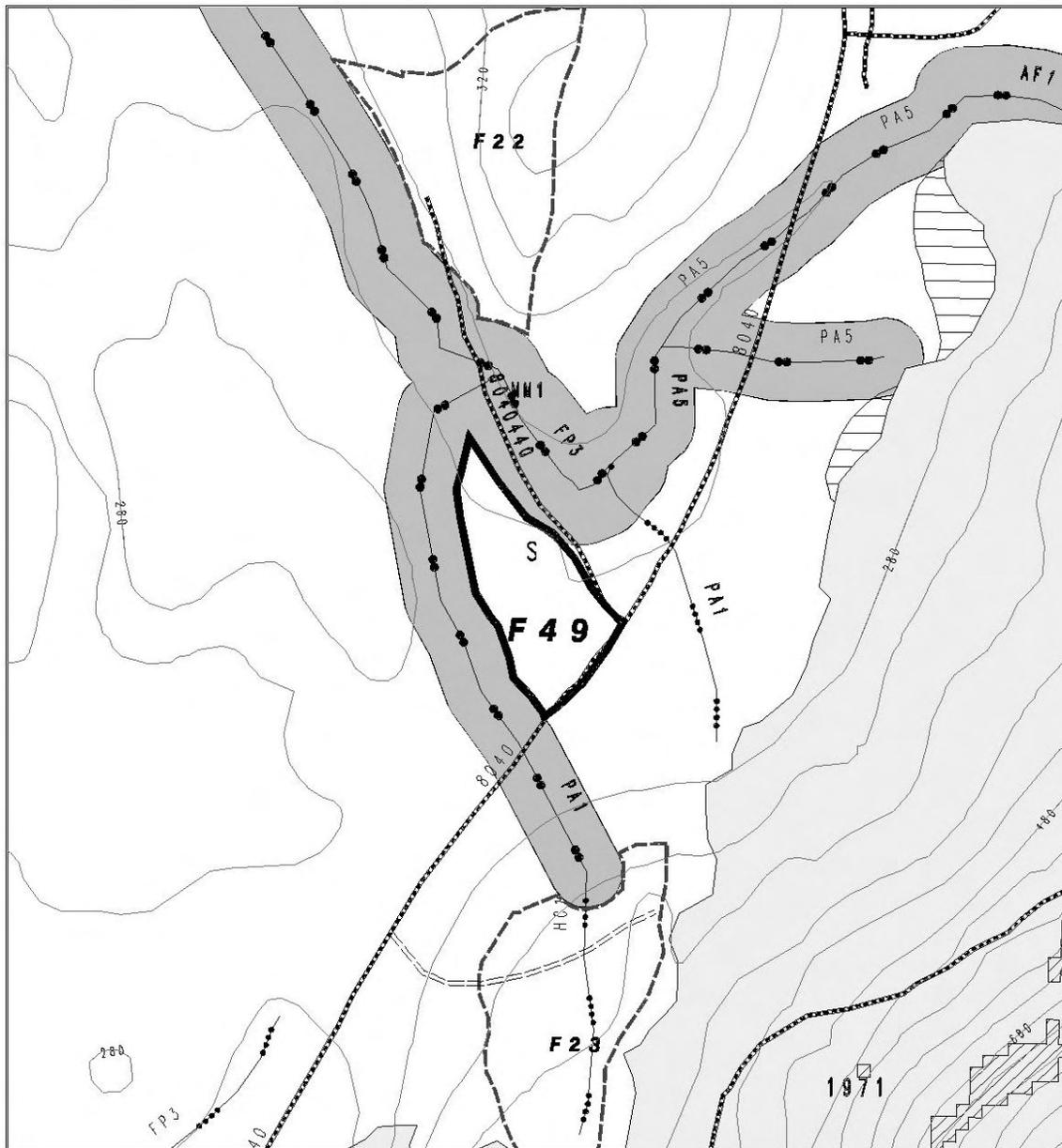
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: 7 acres mapped as containing McGilverly soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension required over the entire length of the yarding distance for the entire unit (S&W 112-I.A.8; BMP 13.9). On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:
Concern/Protection Measures: 5 acres of high-value marten habitat Must retain 2.5 acres of high-value marten habitat – recommend combining retention with Unit F40 and leaving Unit F40 intact (3 acres) and leaving 1 acre of high-value marten habitat in northwest corner of unit or near the creek (total of 4 acres required). If recommendation is followed, need for one temporary road would be eliminated. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: F49



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warden Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F49

LUD: ML

Stand Number: 740010037

Planned Acres: 4

Gross Volume per acre MBF: 19.4

Gross Stand Volume MBF: 77.6

Assigned FACT ID: 7400100044

Photo Number: B102-019

Legal Description: T71S R89E Sec. 36

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a shovel from the existing 8040 Road and the existing 8040440 Road. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class II stream along the northwest to northeast boundary will require directional felling away from the no-cut riparian buffer.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II PA1 west: 100-foot no-cut buffer required.
 Stream 2a – Class II FP3 north: 130-foot no-cut buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: F50



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. F50

LUD: ML

Stand Number: 738020078

Planned Acres: 10

Gross Volume per acre MBF: 18.6

Gross Stand Volume MBF: 186.0

Assigned FACT ID: 7380200090

Photo Number: C102-025

Legal Description: T71S R89E Sec. 25

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Two-aged Management
Regeneration Method: Clearcut with reserves. Distributed 15% retention. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be short-span skyline cable yarded from the existing 8040 Road, maintaining partial suspension throughout unit. Individual trees or clumps will be distributed throughout unit to achieve 15 percent retention. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class II stream along the east boundary will require directional felling away from the no-cut riparian buffer.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II HC2 southeast: 100-foot no-cut buffer required.
 Stream 1a – Class II MM1 east: 120-foot no-cut buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

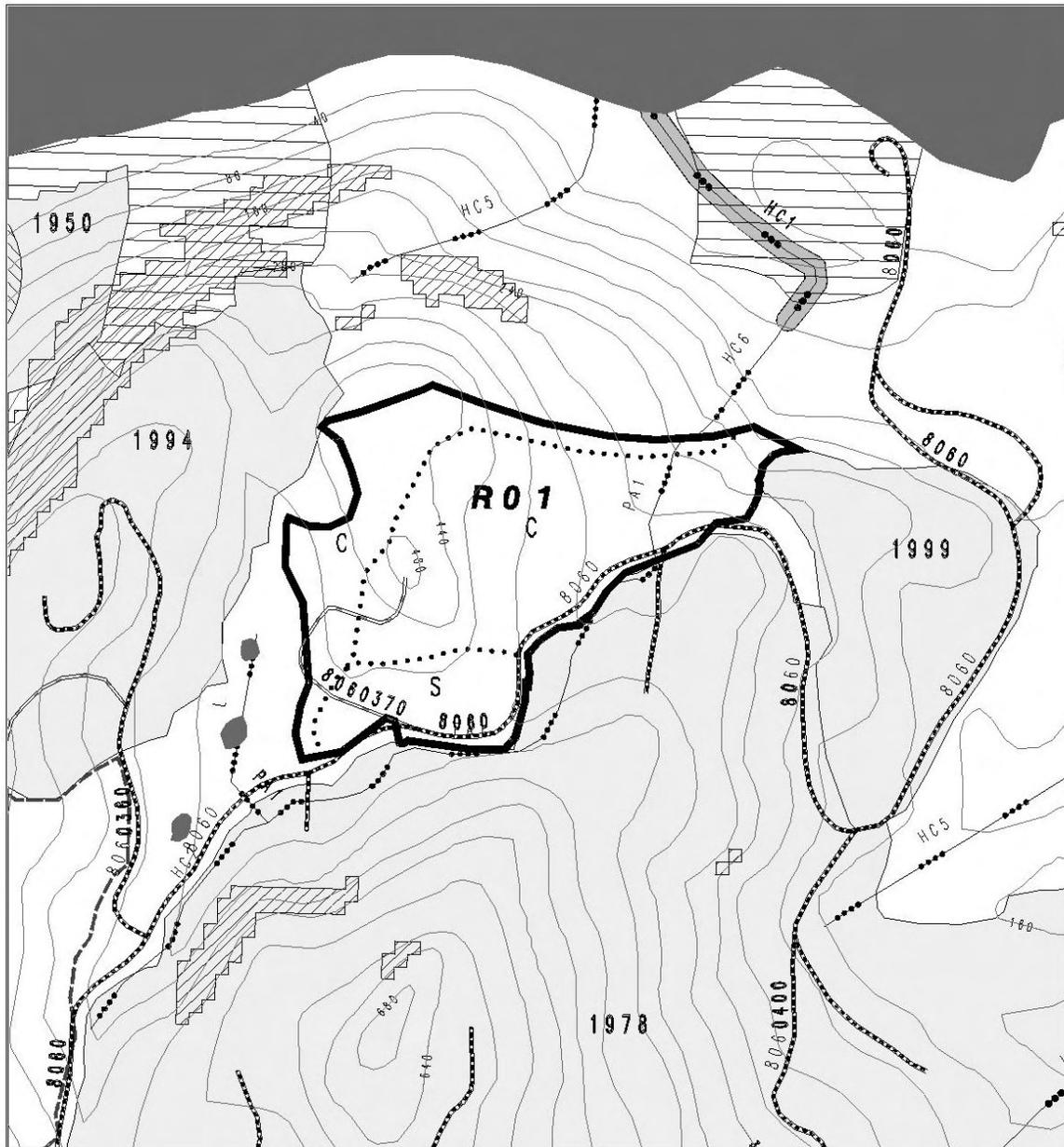
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: R01



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R01

LUD: TM

Stand Number: 737010108

Planned Acres: 21

737010112

Gross Volume per acre MBF: 11.4

Assigned FACT ID: 7370100154

Gross Stand Volume MBF: 239.4

Photo Number: C107-049

Legal Description: T70S R90E Sec. 25, 26

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8060 Road, and the newly constructed 8060370 Road that will branch from the 8060 Road. The timber can be yarded using a shovel from the existing 8060 Road in the southern-most portion of unit. Partial suspension will be achieved in the cable-yarded setting. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations.**National Forest System (NFS) Roads:** 0.17 mile of new construction required on moderate terrain, incorporating grades up to 18 percent.**Temporary Roads:** None

RESOURCE CONCERNS & MITIGATION

Aquatics:**Concern/Protection Measures:** Stream 1c – Class IV HC6, PA1 east: Split yarding or partial suspension required.

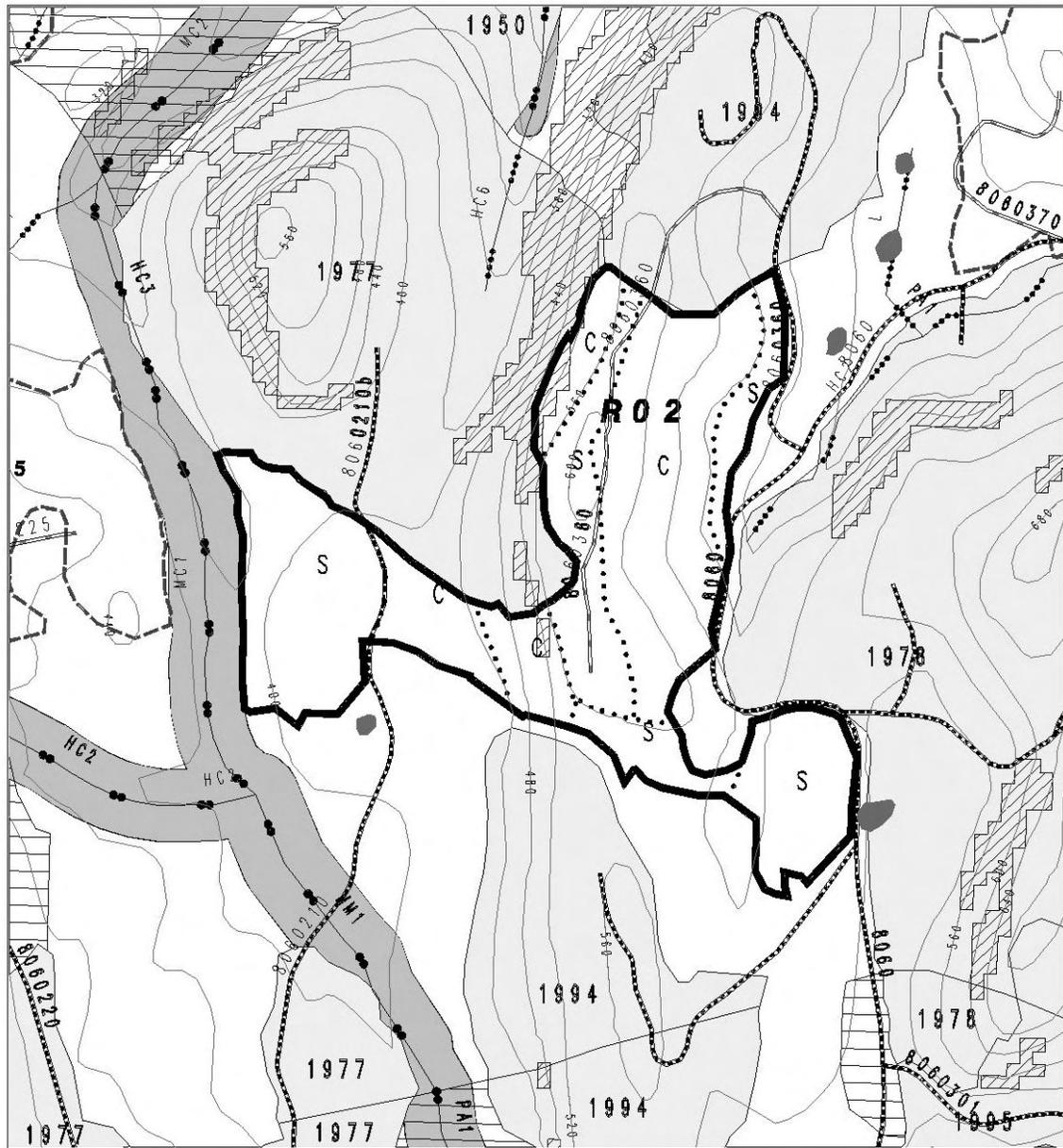
Stream 1c – Class IV PA1, HC2, south and Lake, west: If included in unit, split yarding or partial suspension required.

Botany:**Concern/Protection Measures:** A population of *Platanthera orbiculata* (round-leaf orchid), 50 individuals, exists in the south half of the unit, paralleling Road 8060. This species is designated imperiled by the State of Alaska. Due to logging methods, this population would be negatively affected.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** On shovel yarded ground, tracks need to be supported by slash (BMP 13.9)..**Wildlife:****Concern/Protection Measures:** Adjacent to beach fringe. Measure 1,000 feet slope distance from mean high tide to north boundary to ensure unit is not within required beach fringe.

Appendix 2

Traitors Cove Record of Decision

Unit Card: R02



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet

0 .1 0.2 Miles

TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R02**

LUD: TM

Stand Number: 737010132

Planned Acres: 29

Gross Volume per acre MBF: 10.6

Gross Stand Volume MBF: 307.4

Photo Number: C107-047

Assigned FACT ID: 7370100155

Legal Description: T70S R90E Sec. 26

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

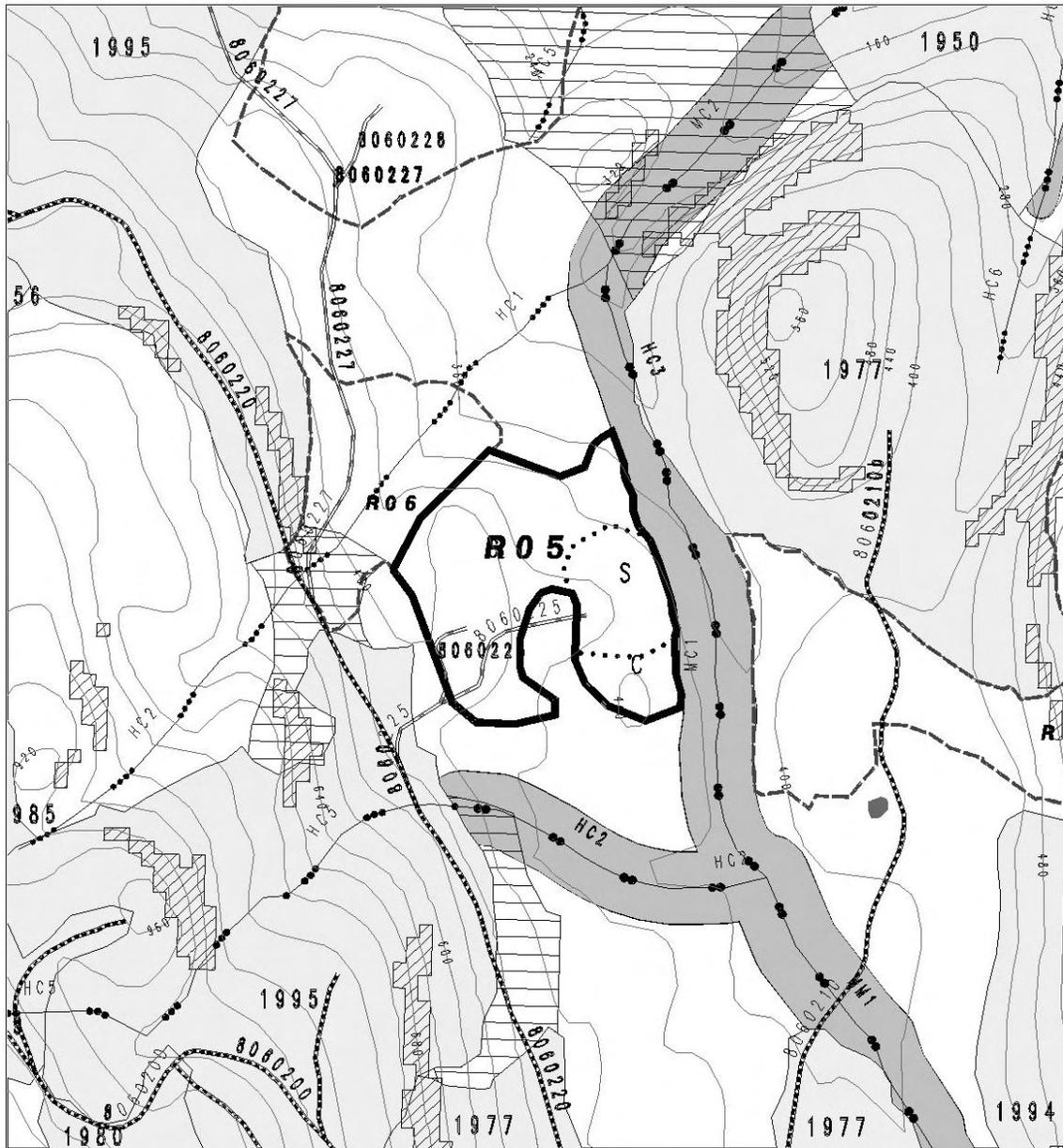
Logging and Transportation: The timber can be yarded using a shovel from the existing 8060210 Road in the western-most portion of unit, from the newly constructed 8060360 Road in the central-western portion of unit, and from the existing 8060 Road for the eastern portion of unit. The timber can be yarded using a short-span skyline cable from the newly constructed 8060360 Road. Partial suspension will be achieved in the cable-yarded settings. Two roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations. A Class II stream along west boundary will require directional felling away from the no-cut riparian buffer.

National Forest System (NFS) Roads: 0.26 mile of new construction required on moderate terrain, with grades up to 18 percent.

Temporary Roads: None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1a – Class II MC1 west: 100-foot no-cut buffer required.**Botany:****Concern/Protection Measures:** A population of *Platanthera orbiculata* (round-leaf orchid), 4 individuals, exists outside of the unit but within 25 feet of the southern boundary. This species is designated imperiled by the State of Alaska. Depending on boundary and tailhold locations, these populations may be negatively impacted. Care could be taken to avoid.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** On shovel-yarded ground, tracks need to be supported by slash (BMP 13.9).**Wildlife:****Concern:** No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: R05



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R05

LUD: TM-ML

Stand Number: 737010132

Planned Acres: 11

Gross Volume per acre MBF: 15.6

Gross Stand Volume MBF: 171.6

Assigned FACT ID: 7370100153

Photo Number: C106-061

Legal Description: T70S R90E Sec. 26

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Two-aged Management
Regeneration Method: Clearcut with reserves. Distributed 15 percent retention. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8060225 and 8060226 Roads which branch from the existing 8060220 Road. Individual trees or clumps will be distributed throughout unit to achieve 15 percent retention. The timber can be yarded using a shovel from the end of the newly constructed 8060225 Road. Partial suspension will be achieved in the cable-yarded settings. A Class II stream along east boundary will require directional felling away from the no-cut riparian buffer.
National Forest System (NFS) Roads: 0.23 mile of new construction on gentle terrain.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II MC1/HC3 east: 100-foot no-cut buffer required

Botany:
Concern: No resource concerns were identified..

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

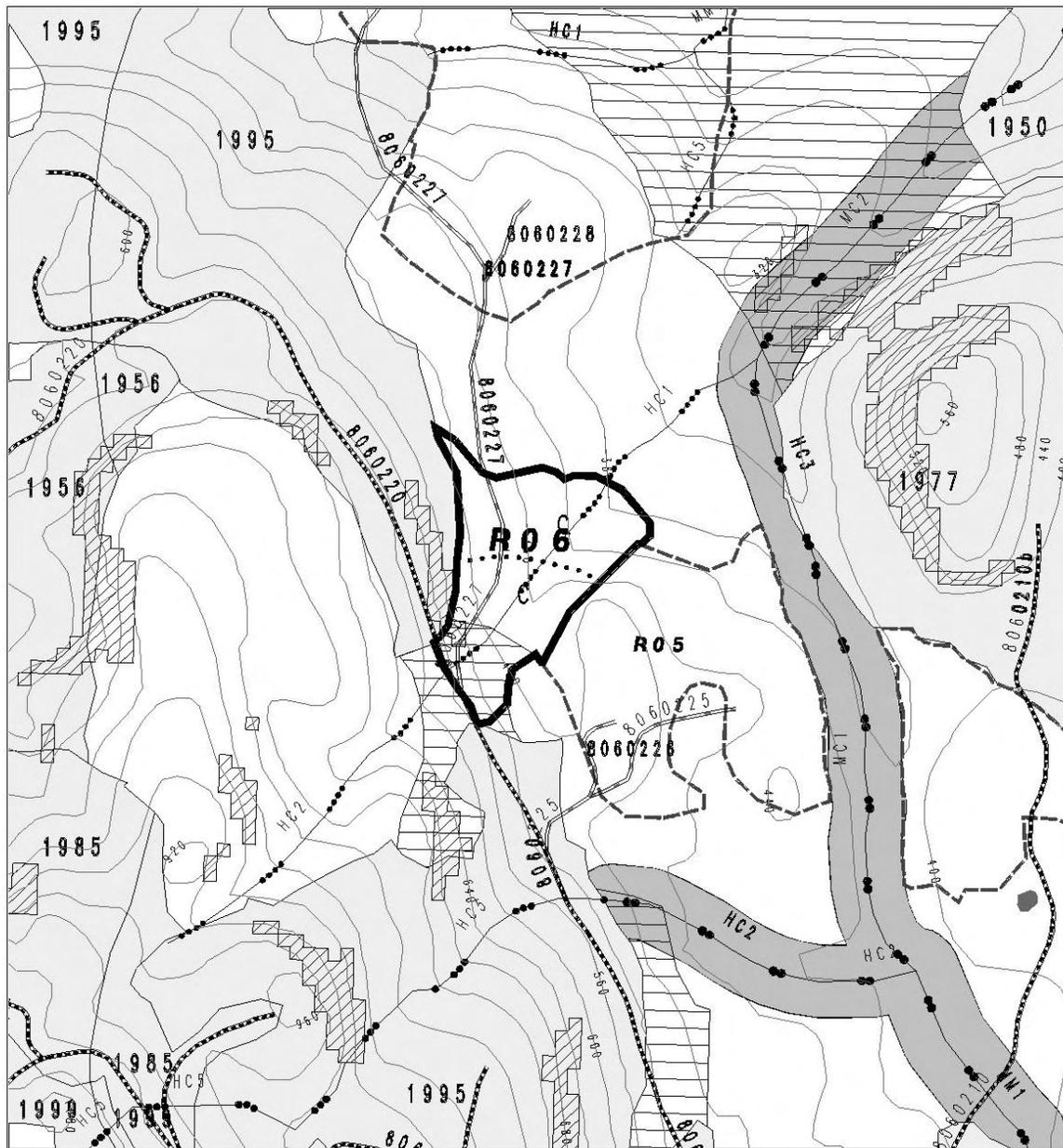
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

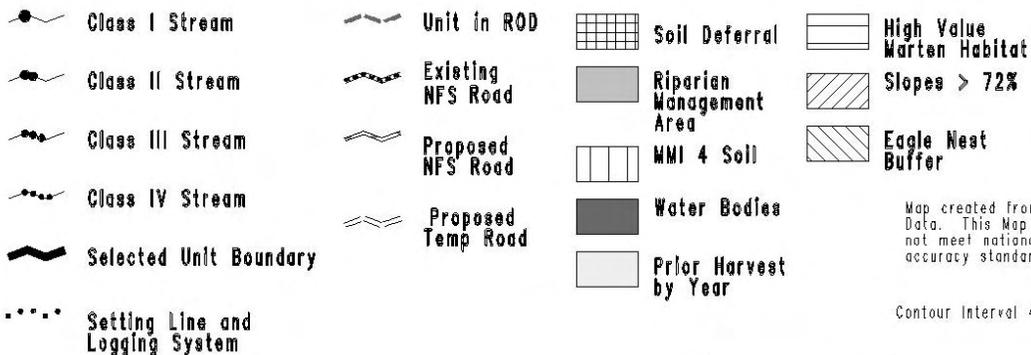
Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: R06



December 04, 2006



Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R06**

LUD: TM- ML

Stand Number: 737010052

Planned Acres: 4

737010132

Gross Volume per acre MBF: 16.0

Assigned FACT ID: 7370100152

Gross Stand Volume MBF: 64.0

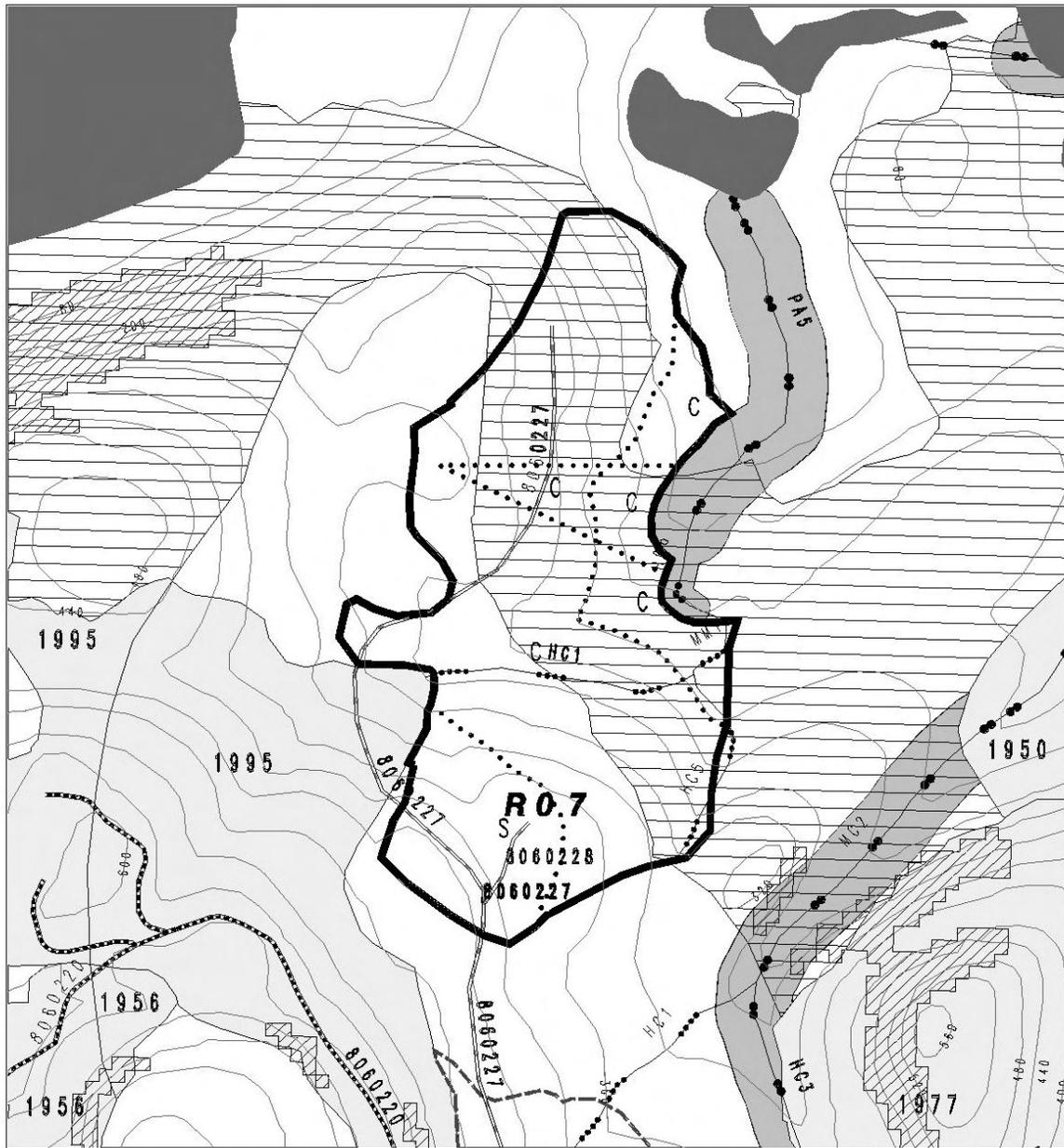
Photo Number: C106-060

Legal Description: T70S R90E Sec. 26

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Two-aged Management**Regeneration Method:** Clearcut with reserves. Distributed 15 percent retention. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from existing 8060 Road and the newly constructed 8060227 Road. Individual trees or clumps will be distributed throughout unit to achieve 15 percent retention. Partial suspension will be maintained throughout the unit. 0.5 acre of high-value marten habitat will be reserved from harvest and located relative to external boundaries of the settings to minimize operational difficulties.**National Forest System (NFS) Roads:** 0.14 mile of new construction required on gentle terrain.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1c - Class IV HC2 central: Split yarding or partial suspension required.**Botany:****Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:****Concern/Protection Measures:** 1 acre high-value marten habitat. Must retain 0.5 acre of high-value marten habitat – recommend along creek. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R07



December 04, 2008

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 Feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R07

LUD: ML

Stand Number: 737010109

Planned Acres: 36

737010115

Gross Volume per acre MBF: 22.9

Assigned FACT ID: 7370100151

Gross Stand Volume MBF: 824.4

Photo Number: C106-058

Legal Description: T70S R90E Sec. 26

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site prep.

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8060227 and 8060228 Roads which branch from the existing 8060220 Road. The timber can be yarded using a shovel from the newly constructed 8060227 Road in the southern-most portion of unit. Partial suspension will be achieved in the cable-yarded settings. 9 acres of high-value marten habitat will be reserved from harvest and located relative to external boundaries of the settings to minimize operational difficulties. A Class II stream along east-northeast boundary will require directional felling away from the no-cut riparian buffer. A Class III stream along east-central boundary will require directional felling away from the slope-break buffer.

National Forest System (NFS) Roads: 0.59 mile of new construction required, mostly on moderate terrain except for 400 feet of full bench/end haul construction on steep ground.

Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:**Concern/Protection Measures:** Lake north: 100-foot no-cut buffer required.

Stream 1a – Class II PA5 northeast: 100-foot no cut buffer from extent of beaver ponds.

Stream 1b – Class III HC6 east: Slope break buffer required.

Stream 1c and 2c – Class IV MM1, HC1, HC5 central and southeast: Split yarding or partial suspension required.

Botany:

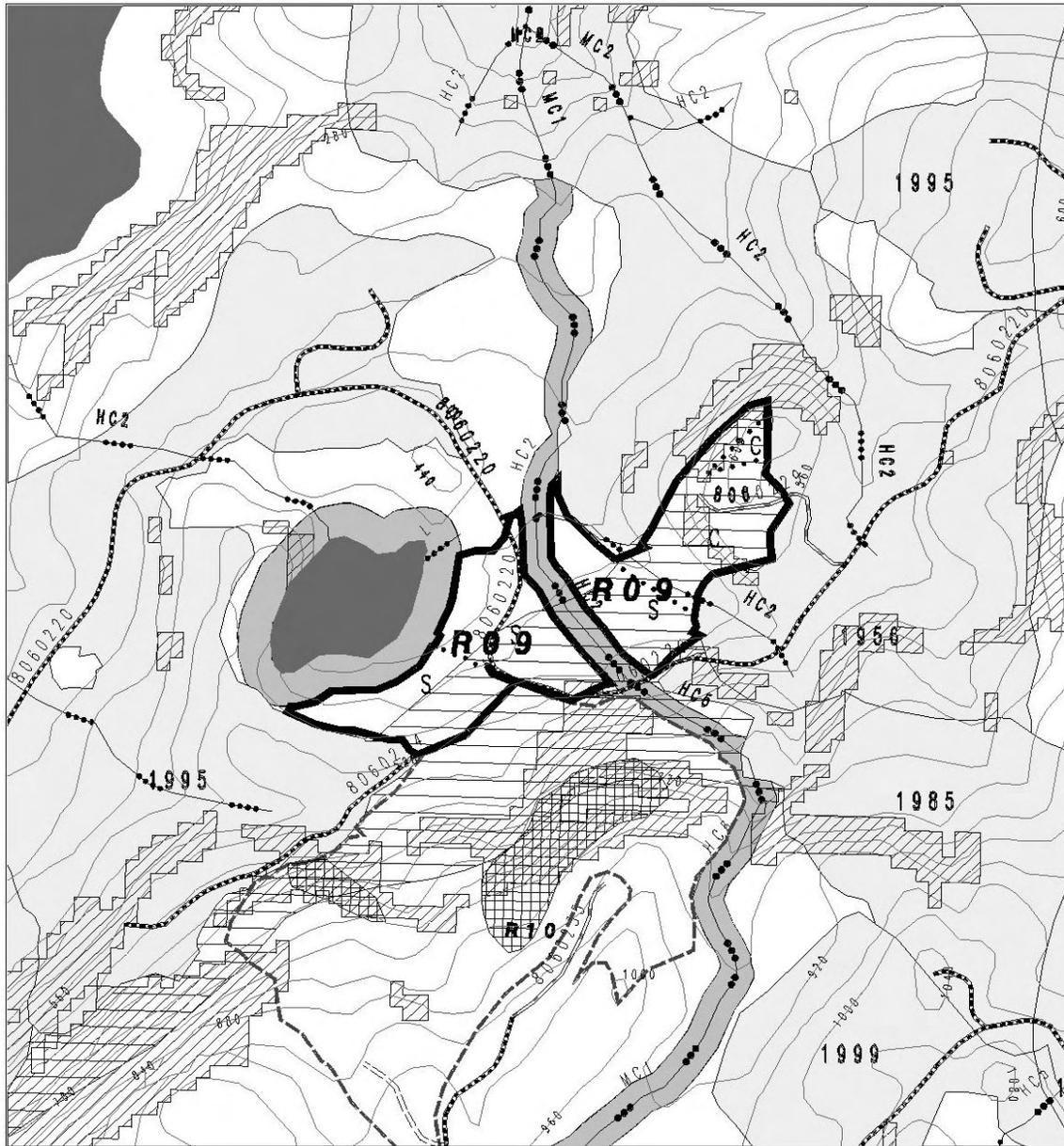
Concern/Protection Measures: A large population (an estimated 400 individuals) of the state-designated imperiled species *Platanthera orbiculata* (round-leaf orchid) exists along the south-west border of the unit (along the edge of 1995 clearcut). Approximately 33% of the population was protected by relocating unit boundary. The remaining 67% of the population will be negatively affected as a portion of the proposed road and a shovel setting are in the same location as the orchid. Three additional populations have been documented within the unit; all will be negatively affected by harvest activities.

Geology, Karst, and Caves:**Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:**

Concern/Protection Measures: 18 acres of high-value marten habitat. Adjacent to beach fringe; measure 1,000 feet slope distance from mean high tide to NW boundary to ensure unit is not within required beach fringe. Must retain 9 acres of high-value marten habitat, recommend along streams (east boundary) and in NW portion of unit. Retentions should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R09



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | WMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet

0 .1 0.2 Miles

TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R09**

LUD: TM

Stand Number: 736030096

Planned Acres: 15

Photo Number: C104-063

Assigned FACT ID: 7360300164

Gross Volume per acre MBF: 26.8

Legal Description: T70S R90E Sec. 27

Gross Stand Volume MBF: 402.0

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8060229 road that will branch from the existing 8060220 Road. The timber can be yarded using a shovel from the existing 8060220 and 8060224 Roads in the west and central portions of the unit. Partial suspension will be achieved in the cable-yarded settings. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. 5 acres of high-value marten habitat will be reserved from harvest (see wildlife section). A Class III stream running through center of unit will require directional felling away from the slope-break buffer.

National Forest System (NFS) Roads: 0.13 mile of new construction required, mostly on gentle terrain.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1b – Class III HC2 central: Slope break buffer required.

Stream 1c – Class IV HC2 northeast: Split yarding or partial suspension required.

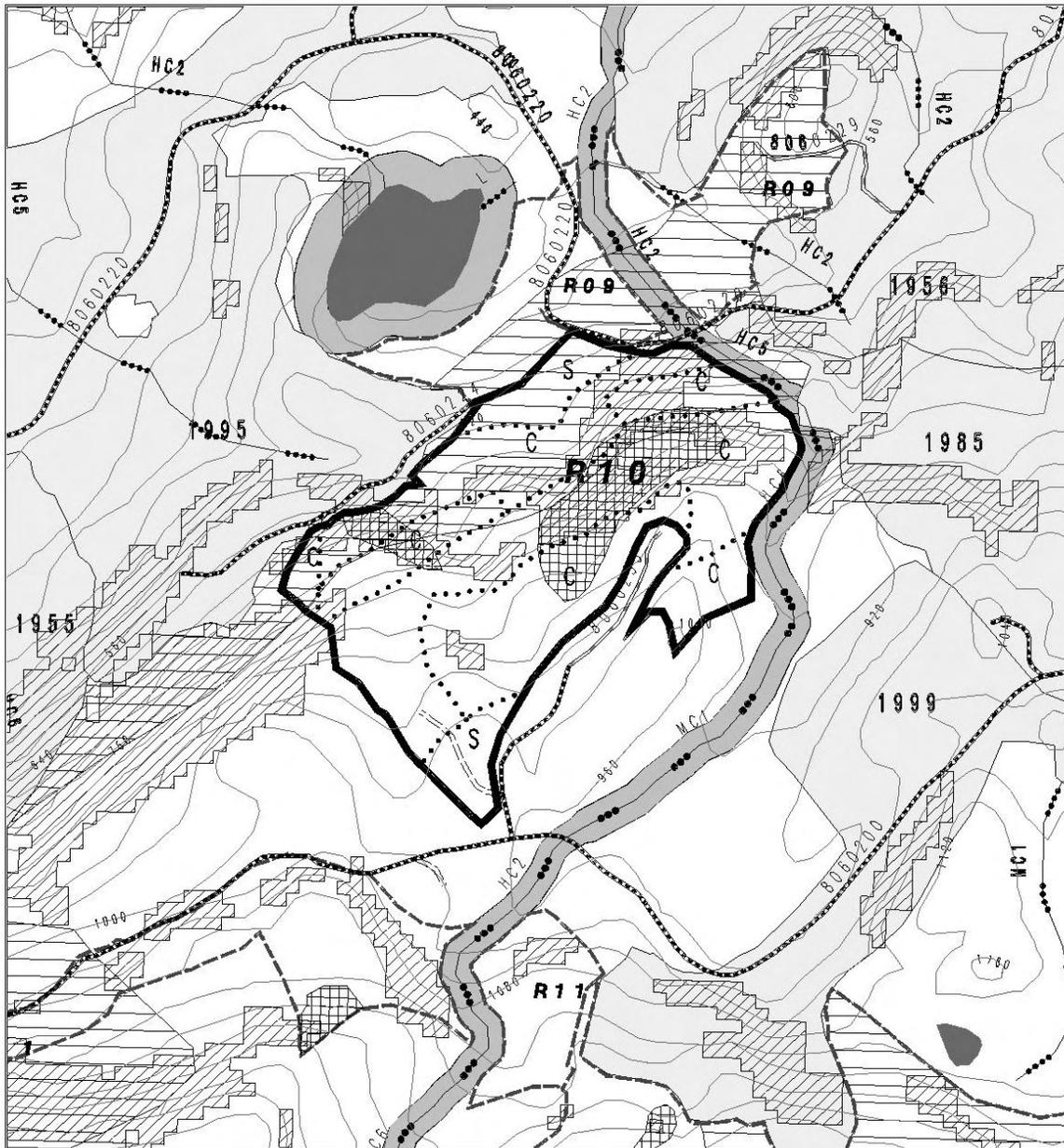
Lake west: 100-foot buffer required to maintain riparian wildlife habitat.

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** On shovel yarded ground, tracks need to be supported by slash (BMP 13.9)..**Wildlife:**

Concern/Protection Measures: 10 acres of high-value marten habitat. Must retain 5 acres of high-value marten habitat – recommend Units R09 and R10 be considered together for high-value marten habitat calculations: recommend leaving east portion of Unit R09 (east of class III stream) as well as a portion west of the creek (between the creek and road) to connect with high-value marten habitat for Unit R10 (total of 9.5 acres required). If recommendation is followed, construction of 8060229 road is unnecessary. Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R10



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R10

LUD: TM

Stand Number: 736030096

Planned Acres: 26

Gross Volume per acre MBF: 30.9

Assigned FACT ID: 7360300163

Gross Stand Volume MBF: 803.4

Photo Number: C104-061

Legal Description: T70S R90E Sec. 27,34

UNIT DEVELOPMENT

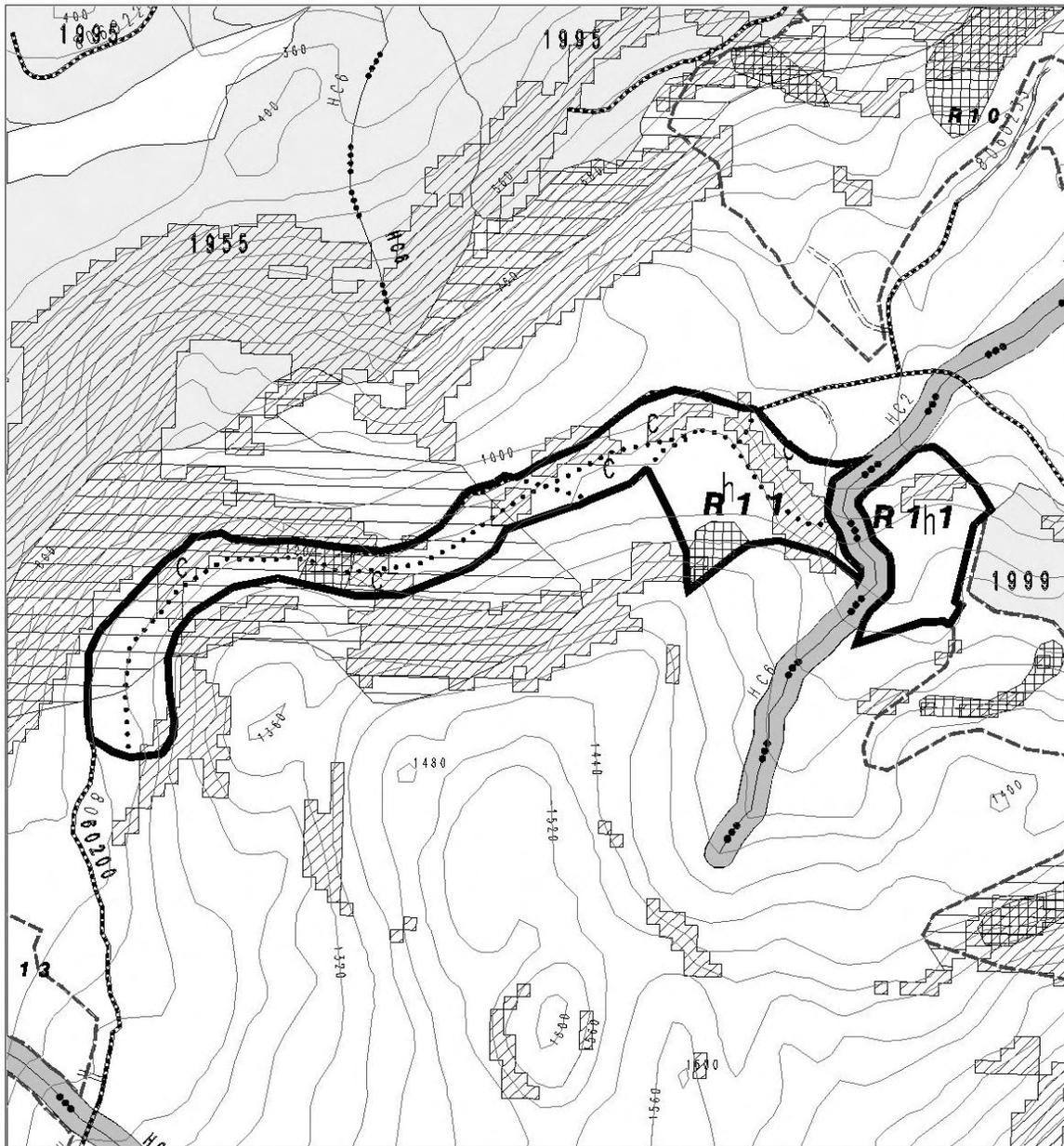
Stand Management Objectives: Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing and newly constructed 8060235 Road, the newly constructed temporary road that will branch from the 8060225 Road, and the existing 8060220 Road. The timber can be yarded using a shovel from the existing 8060235 Road, the newly constructed temporary road that will branch from the 8060225 Road, and the existing 8060220 Road. Partial suspension will be achieved in the cable-yarded settings. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. 4.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below). A Class III stream along northeast boundary will require directional felling away from the slope-break buffer.**National Forest System (NFS) Roads:** 0.11 mile of new construction, including 200 feet of full bench/end haul construction on steep ground.**Temporary Roads:** .07 mile of temporary road construction.

RESOURCE CONCERNS & MITIGATION

Aquatics:**Concern/Protection Measures:** Stream 1b – Class III HC6 east: Slope break buffer required.**Botany:****Concern/Protection Measures:** A population of *Tiarella trifoliata* var. *laciniata* (lacinate three-leaf foamflower), one individual, is located along Road 8060224. This rare plant is designated imperiled to critically imperiled in the State of Alaska. A soil deferral area is near the plant location. Depending on the plant's location, the population may be protected by the soil deferral area. If not, it would be negatively affected by the logging system on the road.**Geology, Karst, and Caves: Concern:** No resource concerns were identified.**Heritage: Concern:** No resource concerns were identified.**Lands: Concern:** No resource concerns were identified.**Recreation: Concern:** No resource concerns were identified.**Scenery:****Concern/Mitigation Measures:** Upper corner (SW) has a very squared off appearance that is not natural looking. Angle the upper corner of the unit by moving backline several hundred feet in from the corner and cutting back the adjacent west boundary by a few hundred feet.**Soils:****Concern/Protection Measures:** 3.8 acres deferred from harvest for unstable slopes in interior and northwestern edge of unit recommended for classification as unsuitable forest lands (BMP 13.5). Other slopes over 72 percent have been field verified and found to be stable enough for harvest (approximately 5.4 acres) with partial suspension or better (BMP 13.5, 13.9). On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).**Wildlife:****Concern/Protection Measures:** 9 acres of high-value marten habitat. Must retain 4.5 acres of high-value marten habitat – recommend Units R09 and R10 be considered together for high-value marten habitat calculations: recommend leaving NE portion of Unit R10 along the creek to connect with high-value marten habitat for Unit R09 and a small area to coincide with the soils deferral in the NW portion of unit (total of 9.5 acres required). Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R11



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warden Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | Map created from GIS Data. This Map may not meet national map accuracy standards. |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R11**

LUD: TM

Stand Number: 736030096

Planned Acres: 16

736030099

Gross Volume per acre MBF: 36.9

Assigned FACT ID: 7360300160

Gross Stand Volume MBF: 590.4

Photo Number: C104-060

Legal Description: T70S R90E Sec. 34

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Two-aged Management**Regeneration Method:** Clearcut with reserves. Distributed 50 % retention. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site prep.

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8060200 Road. The timber in the southeastern portion of unit can be yarded using a helicopter to transport logs to the existing 8040200 Road. Partial suspension will be achieved in the cable-yarded settings. Full suspension will be achieved in the helicopter settings. Those areas where partial suspension cannot be achieved will contribute to the 50 percent retention. 50 percent retention will be achieved through soil deferral, marten reserves, and logging system constraints. Individual trees or clumps will be distributed throughout unit to achieve 50 percent retention. Five roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations. 2 acres of high-value marten habitat will be reserved from harvest (see wildlife section below). A Class III stream running through east portion of unit will require directional felling away from the slope-break buffer.

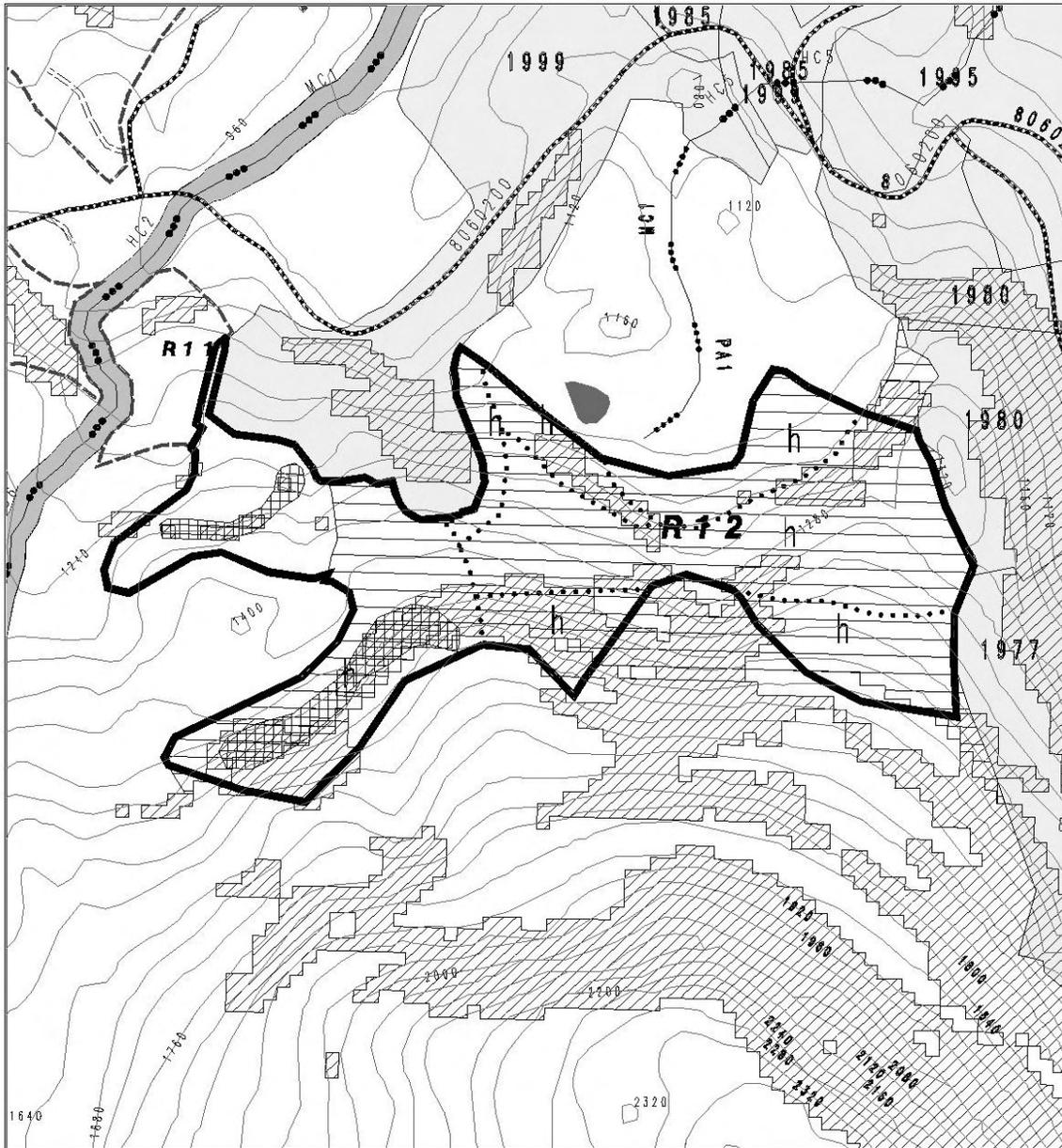
National Forest System (NFS) Roads: No new NFS road construction required.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1b – Class III HC6/HC2 east: Slope break buffer required.**Botany: Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern/Mitigation Measures:** The harvest on the helicopter setting will add to the existing visual impact. To lessen additional impact, leave as much structure throughout this setting by spreading 50 percent retention throughout as much of the setting as possible.**Soils:****Concern/Protection Measures:** Approximately 1 acre deferred for unstable slopes recommended for classification as unsuitable forest lands (BMP 13.5). Deferral acreage includes all areas over 100 percent slope and areas over 60 percent slope in concave moist positions.

4 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance (S&W 112-I.A.8). Minimum of partial suspension required over the entire length of the yarding distance for the entire unit, including 4.6 acres over 72 percent that have been field verified and found to be stable enough for harvest (BMP 13.5 13.9).

Wildlife:**Concern/Protection Measures:** 4 acres of high-value marten habitat. Must retain 2 acres of high-value marten habitat – recommend scattered clumps to coincide with western soil deferral area plus additional scattered clumps as needed to meet requirement. Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R12



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R12

LUD: TM

Stand Number: 736030093
736030099
739010077

Planned Acres: 37
Gross Volume per acre MBF: 36.9
Gross Stand Volume MBF: 1,365.3

Photo Number: AJ01-016

Assigned FACT ID: 7360300161
Legal Description: T70S R90E Sec. 34, 35

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Two-aged Management
Regeneration Method: Clearcut with reserves. Distributed 50% retention. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

Logging and Transportation: The timber can be yarded using a helicopter to transport logs to the existing 8060200 Road. Full suspension and partial harvest will be achieved throughout unit. Individual trees or clumps will be distributed throughout unit to achieve 50 percent retention. Three roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations. 30 percent of canopy in high-value marten habitat will be reserved from harvest.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

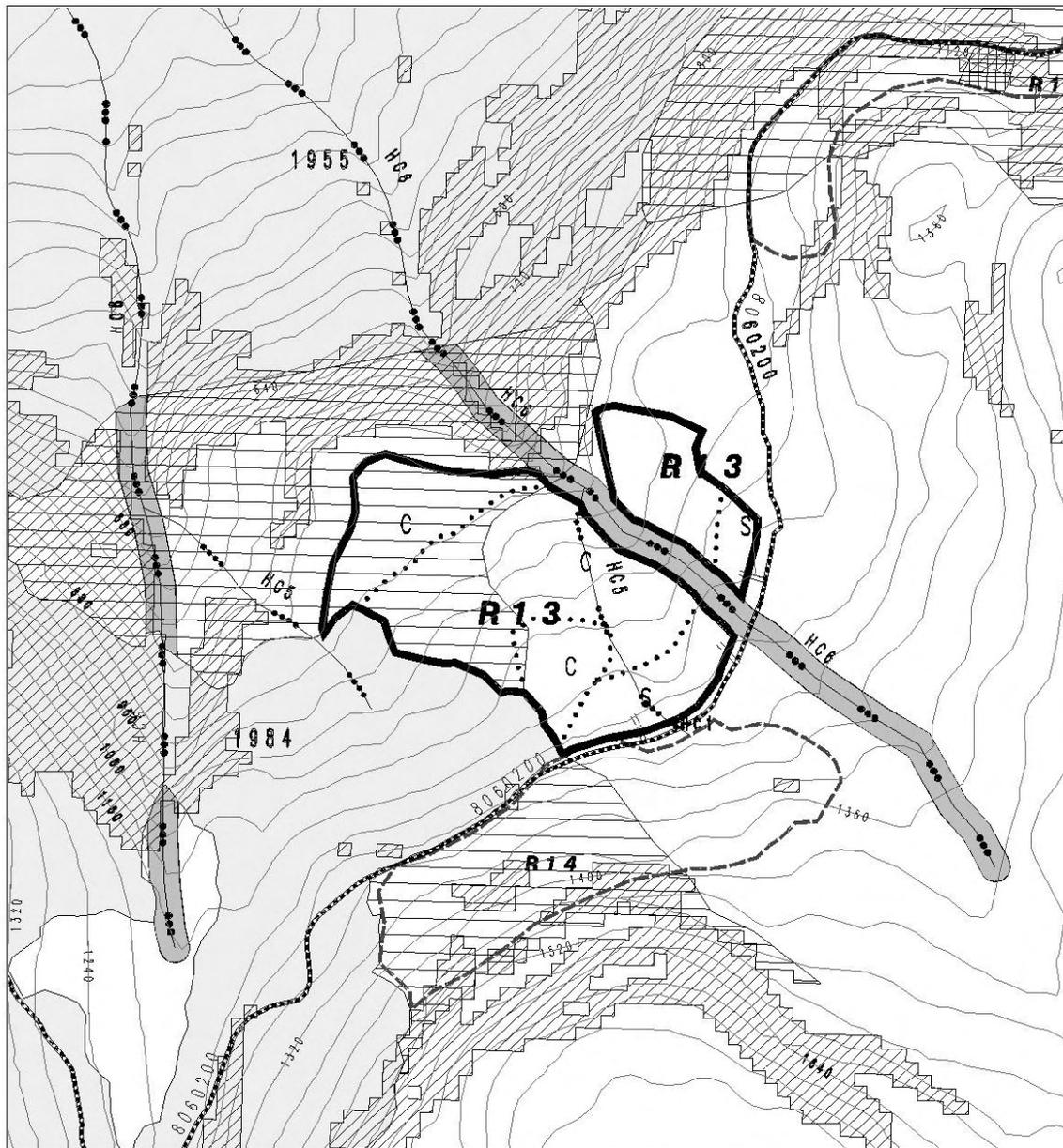
Scenery:
Concern/Mitigation Measures: The additional harvest on this steep slope will add to the existing visual impact. To lessen additional impact, leave as much structure throughout the unit by spreading the marten retention throughout as much of the unit as possible.

Soils:
Concern/Protection Measures: 2.6 acres deferred for unstable slopes recommended for classification as unsuitable forest lands (BMP 13.5). Minimum of partial suspension recommended over the entire length of the yarding distance for the entire unit (BMP 13.9), including 5.8 acres over 72 percent that have been field verified and found to be stable enough for harvest (BMP 13.5).

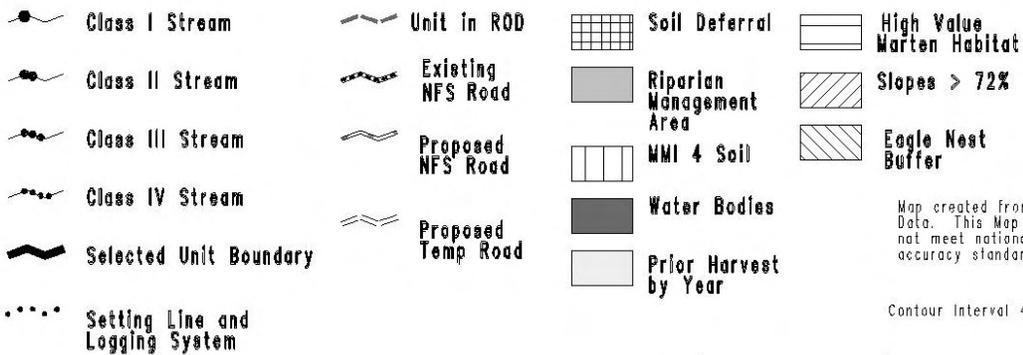
Wildlife:
Concern/Protection Measures: 30 acres of high-value marten habitat. Must meet overall retention of 15 acres or 30 percent canopy cover throughout high-value marten habitat – recommend clump in the southwest “finger” of unit to coincide with soils deferral and possibly another clump in the southeast corner of unit (highest visual concern) and scattered trees throughout the remainder of high-value marten habitat. Retention should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R13



December 04, 2006



Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R13

LUD: TM

Stand Number: 736030099

Planned Acres: 19

736030151

Gross Volume per acre MBF: 16.3

Assigned FACT ID: 7360300158

Gross Stand Volume MBF: 309.7

Photo Number: AI01-014

Legal Description: T70S R90E Sec. 33, 34

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from existing 8060200 Road and three newly constructed temporary roads which branch from the existing 8060220 Road. The timber can be yarded using a shovel from the existing 8060220 along the southeast portion of unit. Partial suspension will be achieved in the cable-yarded settings. 3.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below). A Class III stream running through east portion of unit will require directional felling away from the slope-break buffer.**National Forest System (NFS) Roads:** No new NFS road construction required.**Temporary Roads:** Three temporary roads totaling approximately 0.21 mile.

RESOURCE CONCERNS & MITIGATION

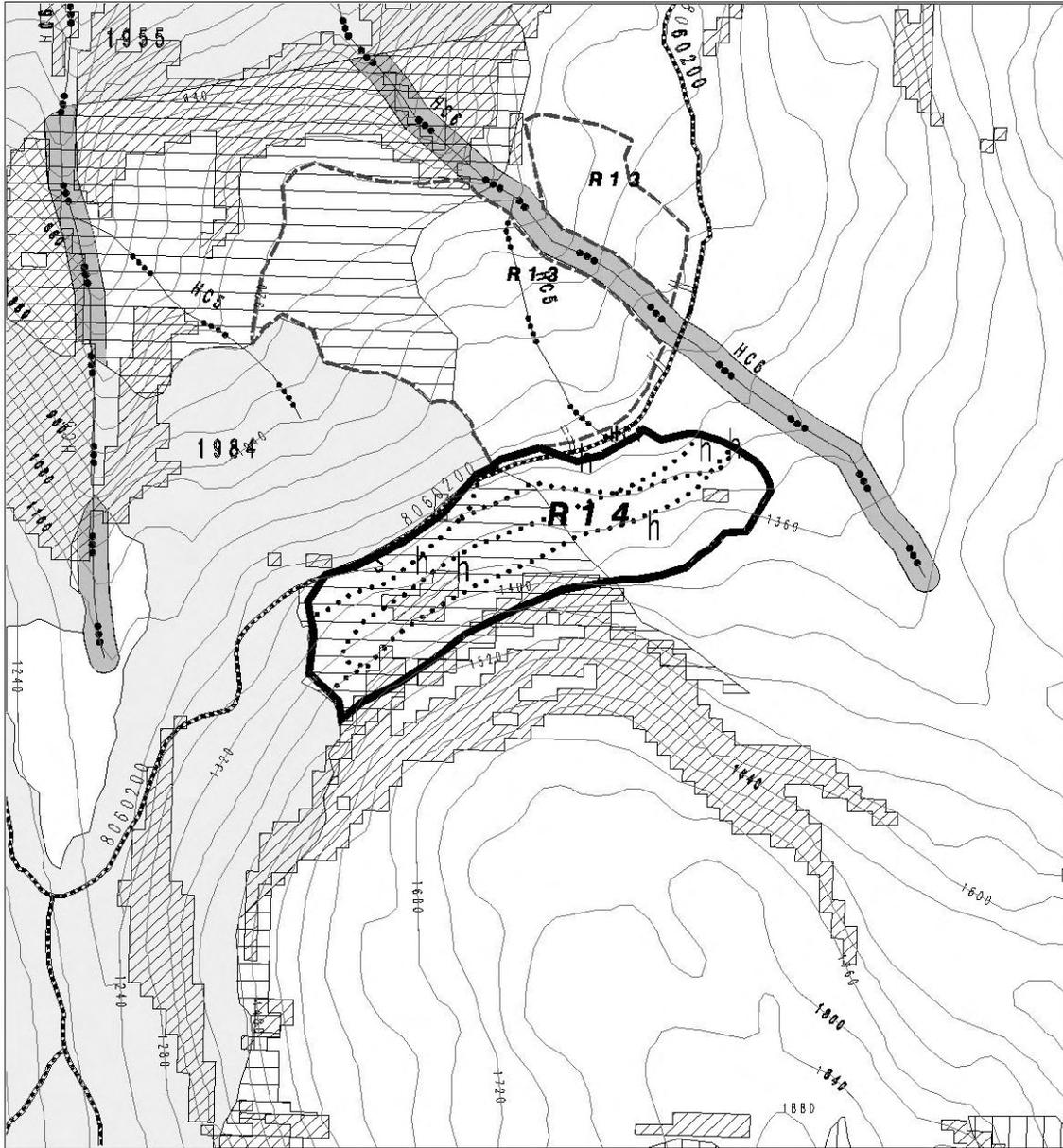
Aquatics:**Concern/Protection Measures:** Stream 1b – Class III HC6 northeast: Slope break buffer required.

Stream 2c – Class IV HC5 central: Split yarding or partial suspension required

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** Unit contains McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension required over the entire length of the yarding distance for the entire unit (S&W 112-I.A.8; BMP 13.9). The 3 acres of shovel ground have been field checked, likely contain no McGilvery soils, and are suitable for shovel yarding. Tracks need to be supported by slash (BMP 13.9).**Wildlife:****Concern/Protection Measures:** 7 acres of high-value marten habitat. Must retain 3.5 acres of high-value marten habitat – recommend northwest corner. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R14



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R14

LUD: TM

Stand Number: 736030088
736030099

Planned Acres: 13

Gross Volume per acre MBF: 14.8

Assigned FACT ID: 7360300157

Gross Stand Volume MBF: 192.4

Photo Number: AI01-013

Legal Description: T70S R90E Sec. 33, 34

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a helicopter to transport logs to the existing 8060200 Road. Full suspension will be achieved in the helicopter settings. The timber in the NW corner of the unit along the road can be yarded using a shovel from the existing 8060200 Road. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. 4 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

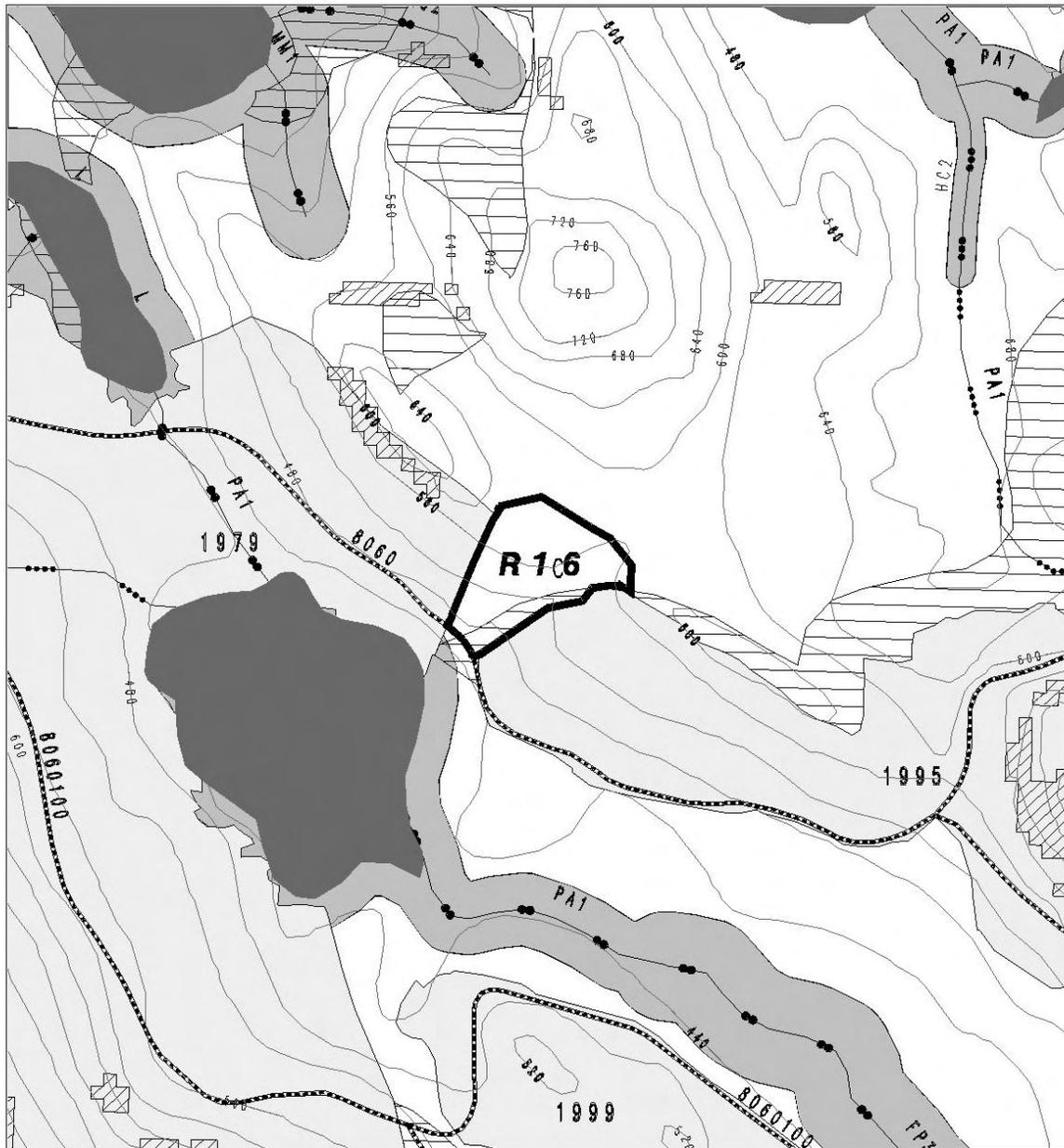
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protective Measures: Unit contains McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension required over the entire length of the yarding distance for the northeast 1/3 of the unit (S&W 112-I.A.8; BMP 13.9). On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:
Concern/Protection Measures: 8 acres of high-value marten habitat. Must retain 4 acres of high-value marten habitat – recommend southwest portion of unit. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R16



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MNI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R16

LUD: TM

Stand Number: 739010084

Planned Acres: 2

Gross Volume per acre MBF: 22.9

Assigned FACT ID: 7390100169

Gross Stand Volume MBF: 45.8

Photo Number: C108-061

Legal Description: T71S R90E Sec. 1

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8060 Road. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

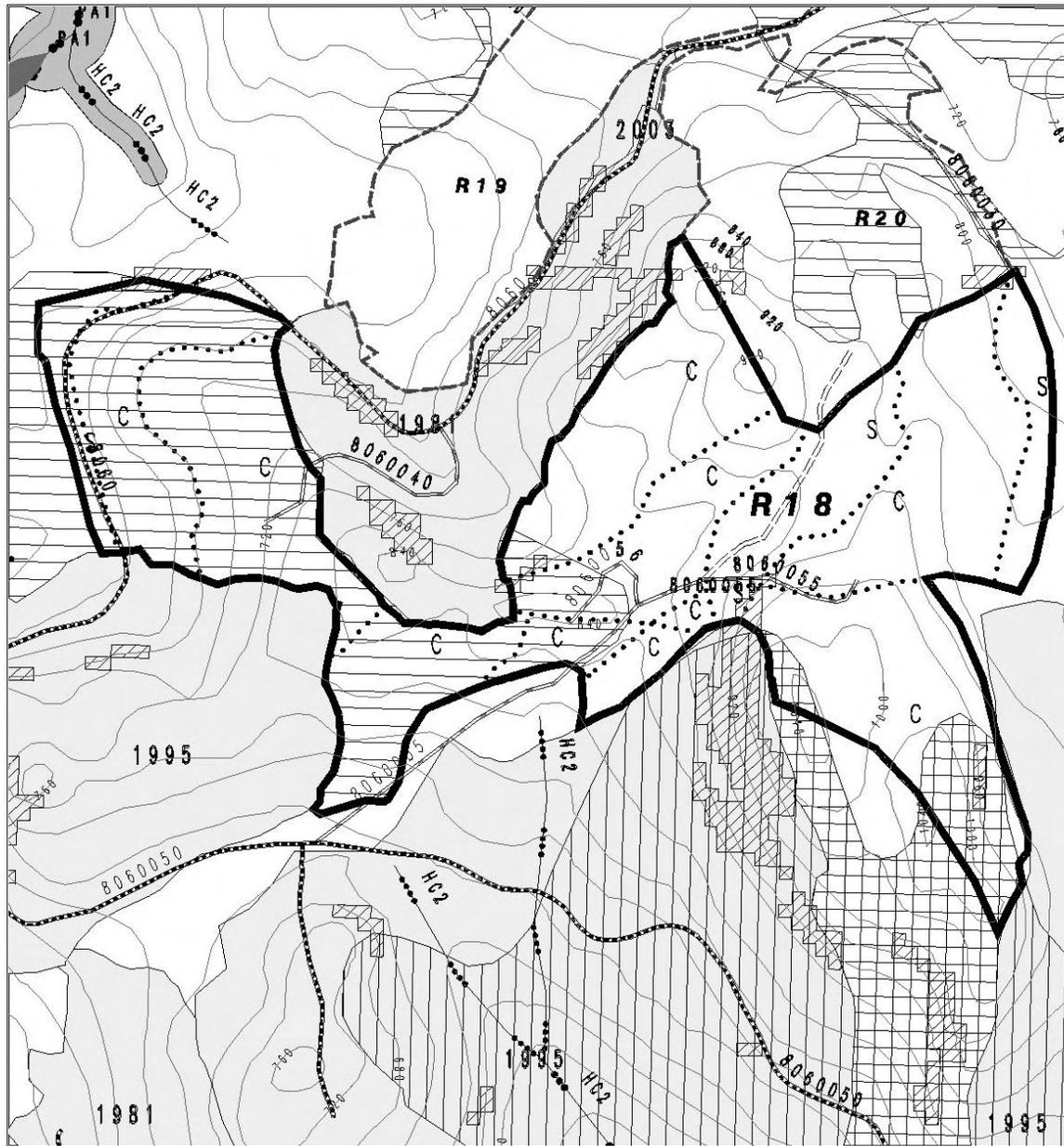
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

Wildlife:
Concern/Protection Measures: Less than 1 acre of high-value marten habitat. No protection required.

Appendix 2

Traitors Cove Record of Decision Unit Card: R18



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R18**

LUD: TM-ML

Stand Number: 739010025

Planned Acres: 59

739010084

Gross Volume per acre MBF: 19.0

739010137

Gross Stand Volume MBF: 1,121.0

739010139

739010155

Assigned FACT ID: 7390100170

Photo Number: Line 53 1790-30 Legal Description: T71S R90E, T71S R91E Sec. 1,6

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site prep.

Logging and Transportation: The timber can be yarded using a shovel and short-span skyline cable from the existing 8060 and 8060030 Roads and the newly constructed 8060040, 8060055, 8060056 and 8060057 Roads. Partial suspension will be achieved in the cable-yarded settings. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yard. 11.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).

National Forest System (NFS) Roads: 0.7 mile of new construction required, including 400 feet of full bench/end haul construction on steep slopes; located otherwise on gentle to moderate terrain. One 36" culvert on Road 8060055.

Temporary Roads: None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern:** No resource concerns were identified.**Botany:****Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery: Concern:** No resource concerns were identified.**Soils:**

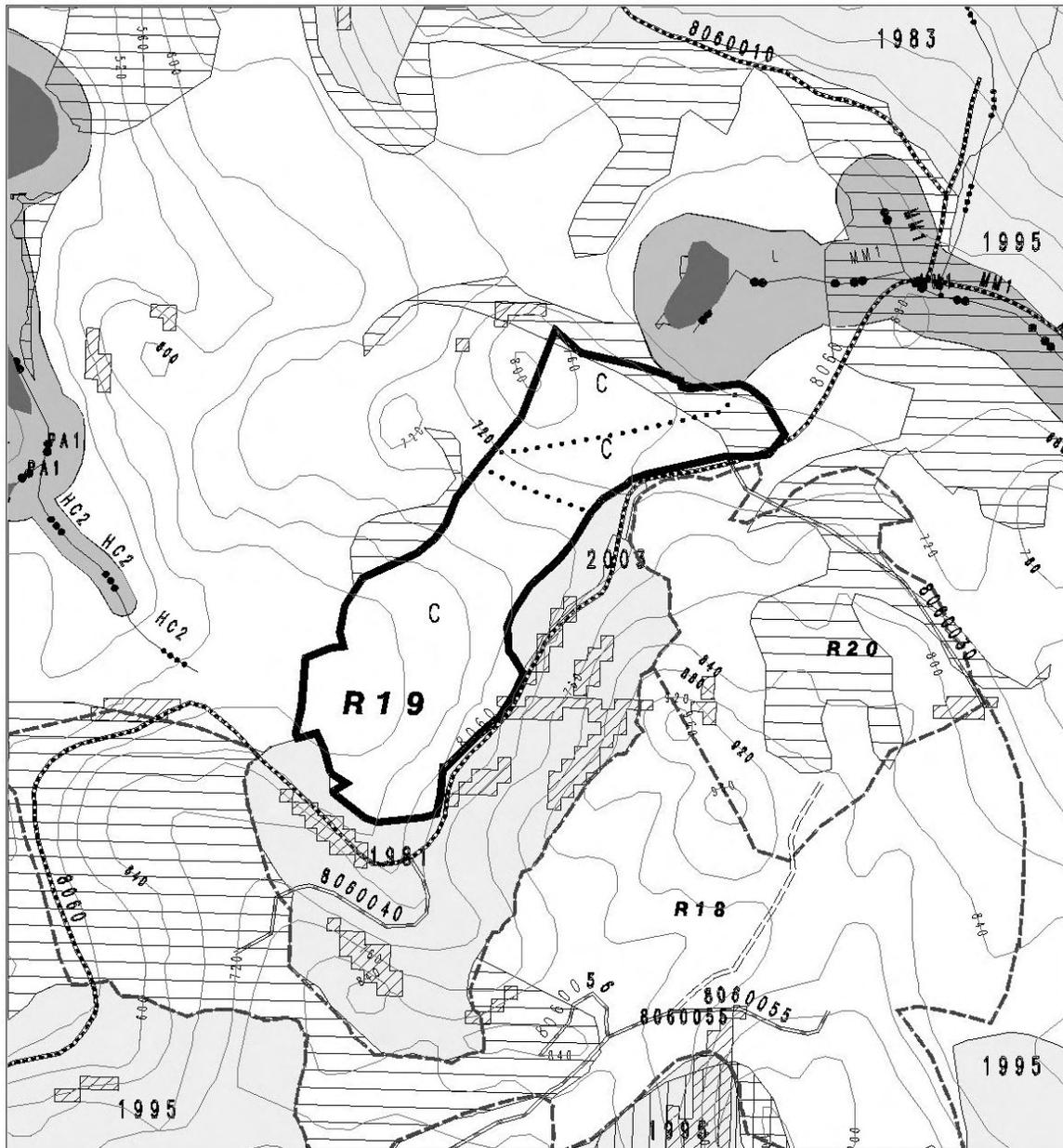
Concern/Protection Measures: 14 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance (11 acres cable and 3 acres shovel). The shovel ground located along the 8060 Road has been field checked, likely contains no McGilvery soils, and is suitable for shovel yarding. Tracks need to be supported by slash (BMP 13.9). Minimum of partial suspension required over the entire length of the yarding distance for the 11 acres of cable ground mapped as containing McGilvery soils (located in the western 1/3 of the unit). Exclude from harvest all acreages in the southeast arm of the unit that exceed 72% slope to avoid areas with a very high movement index (BMP 13.2, 13.5)

Wildlife:

Concern/Protection Measures: 23 acres of high-value marten habitat. Must retain 11.5 acres of high-value marten habitat – recommend leaving west central cable setting with remainder of necessary acres left in the southeast “finger” of unit. If recommendation is followed, construction of 8060040 Road is unnecessary. Combine Units R18, R19, and R20 for high-value marten habitat calculation and retention. Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R19



December 04, 2006

- | | | | |
|----------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Warten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Settling Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R19**

LUD: TM

Stand Number: 739010025

Planned Acres: 17

739010084

Gross Volume per acre MBF: 11.6

Assigned FACT ID: 7390100172

Gross Stand Volume MBF: 197.2

Photo Number: C108-059

Legal Description: T70S R90E, T70S R90E Sec. 36, 31, 1

T71S R90E

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

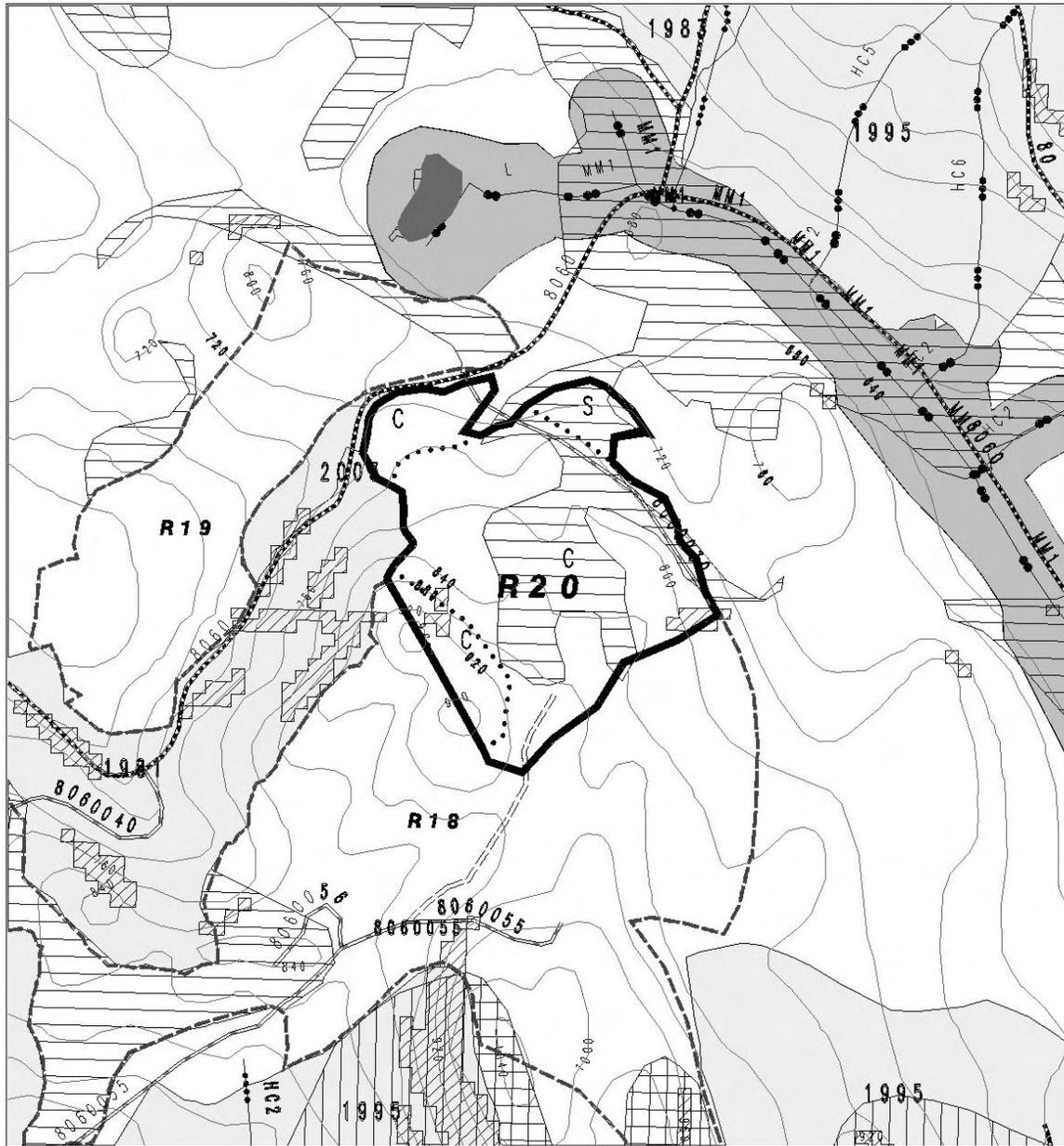
Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8060 Road. Partial suspension will be achieved in the cable-yarded settings. Three roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations. 1 acre of high-value marten habitat will be reserved from harvest (see wildlife section below). A Class II stream near northeast boundary will require directional felling away from the no-cut riparian buffer.

National Forest System (NFS) Roads: No new NFS road construction required.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Lake north: 100-foot no-cut buffer required.**Botany:****Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** No resource concerns were identified.**Wildlife:**

Concern/Protection Measures: Adjacent to goshawk nest buffer on NW boundary. Ensure unit boundary does not enter nest buffer. 2 acres of high-value marten habitat. Must retain 1 acre of high-value marten habitat – recommend combining Units R18, R19, and R20 for high-value marten habitat calculation and retention (total of 16 acres required). Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness. See Unit R18.

Appendix 2

Traitors Cove Record of Decision Unit Card: R20



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet

0 .1 0.2 Miles

TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R20

LUD: TM

Stand Number: 739010025
739010084

Planned Acres: 18

Gross Volume per acre MBF: 20.5

Gross Stand Volume MBF: 369.0

Photo Number: Line 53 1790-30

Assigned FACT ID: 7390100171

Legal Description: T70S R91E Sec. 31, 6
T71S R91E

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8060 Road, and the newly constructed 8060030 and 8060057 Roads. The timber can be yarded using a shovel in the northeast portion of unit from the newly constructed 8060030 Road. Partial suspension will be achieved in the cable-yarded settings. 3.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below).
National Forest System (NFS) Roads: 0.41 mile of new construction required (two roads), mostly on moderate terrain except for 100 feet of full bench/end haul construction.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

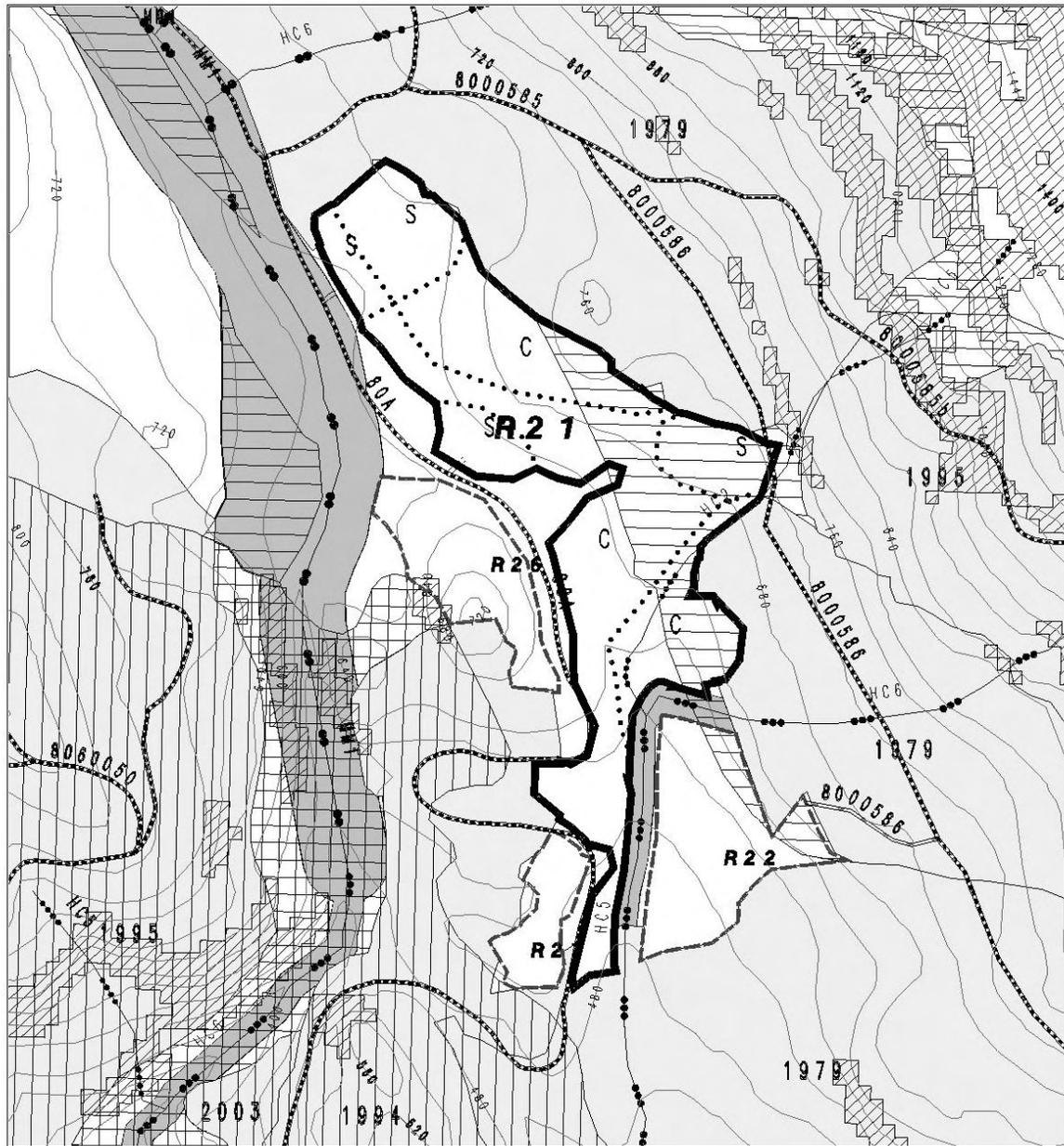
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:
Concern/Protection Measures: 7 acres of high-value marten habitat. Must retain 3.5 acres of high-value marten habitat – recommend combining Units R18, R19, and R20 for high-value marten habitat calculation and retention (total of 16 acres required). Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness. See Unit R18.

Appendix 2

Traitors Cove Record of Decision Unit Card: R21



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R21**

LUD: TM

Stand Number: 739010084

Planned Acres: 24

739010146

Gross Volume per acre MBF: 19.0

Assigned FACT ID: 7390100173

Gross Stand Volume MBF: 456.0

Photo Number: C109-033

Legal Description: T71S R91E Sec. 6

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 80 Road and two newly constructed roads branching from the 80 and 8000586 Roads. The timber can be yarded using a shovel from the existing 80 and 8000586 Roads. Partial suspension will be achieved in the cable-yarded setting. Two roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations. 3.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below). A Class II stream along northwest boundary will require directional felling away from the no-cut riparian buffer. A Class III stream along southeast boundary will require directional felling away from the slope-break buffer.

National Forest System (NFS) Roads: No new NFS road construction required.**Temporary Roads:** Two temporary roads; construction totaling approximately 0.14 mile.**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1a – Class II MM1 stream northwest: 120 foot no-cut buffer required.

Stream 3b – Class III HC6/HC5 southeast: Slope break buffer required.

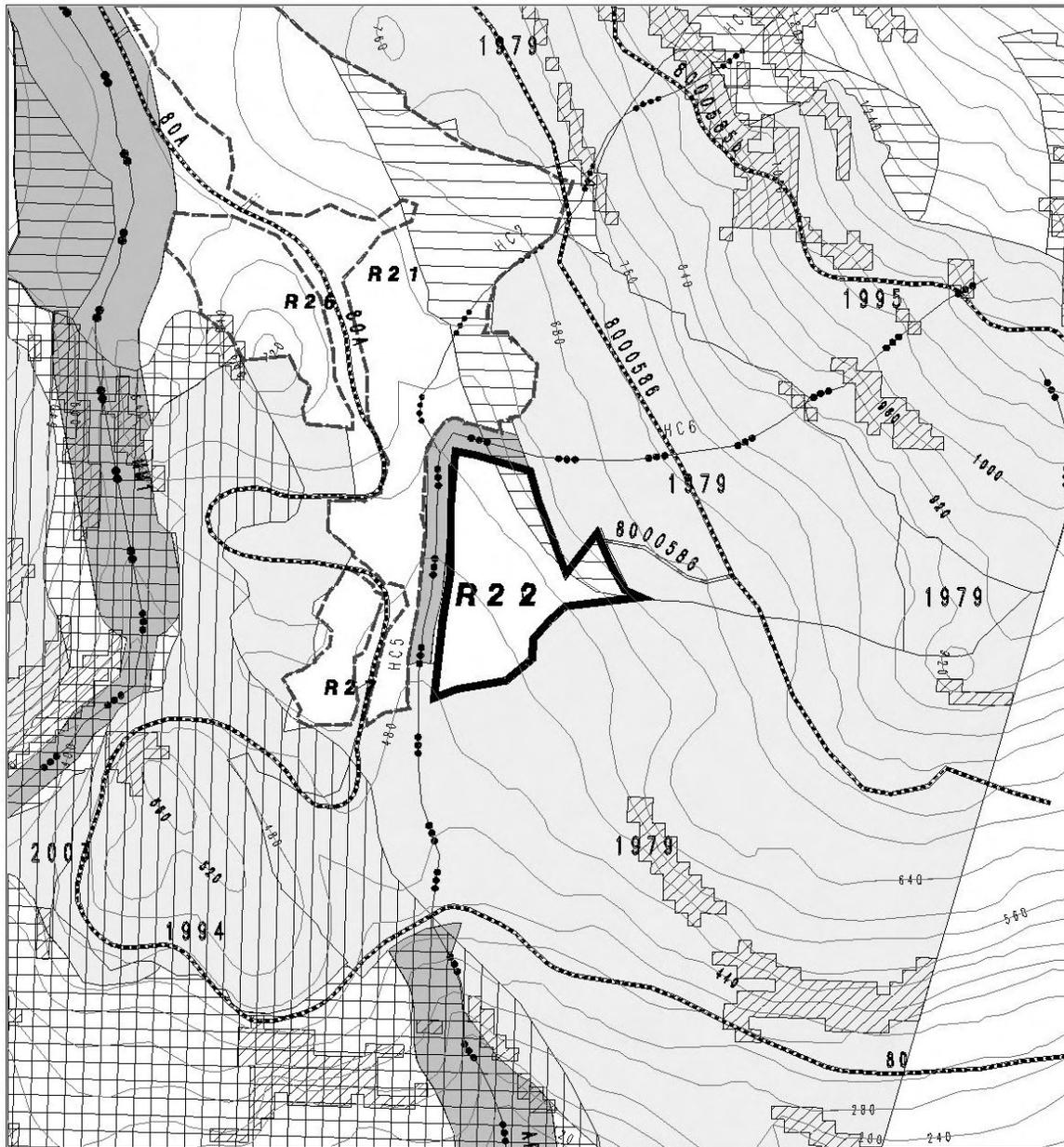
Stream 2c – Class IV HC2 east: Split yarding or partial suspension.

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).**Wildlife:**

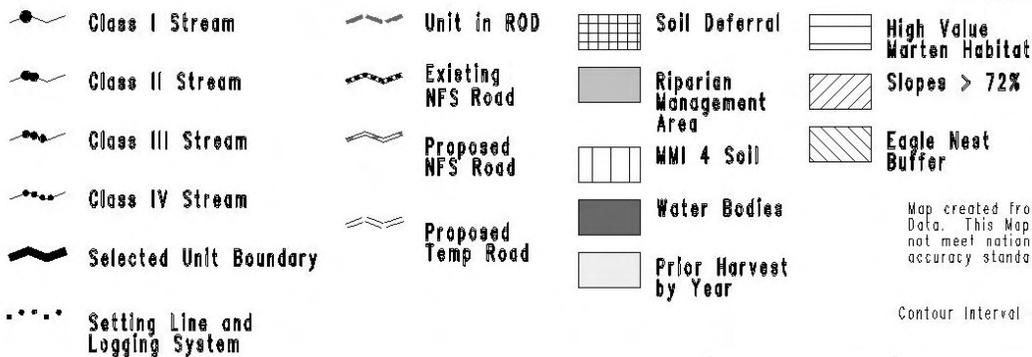
Concern/Protection Measures: South part of unit within ½ mile of wintering trumpeter swans; timing restriction on harvest and road-building activity for this unit from November 1 through March 31. 7 acres of high-value marten habitat; must retain 3.5 acres of high-value marten habitat – recommend along creek for as much as possible with remainder where feasible. Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R22



December 04, 2006



Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R22**

LUD: ML-TM

Stand Number: 739010018

Planned Acres: 4

739010146

Gross Volume per acre MBF: 22.1

Assigned FACT ID: 7390100175

Gross Stand Volume MBF: 88.4

Photo Number: C109-031

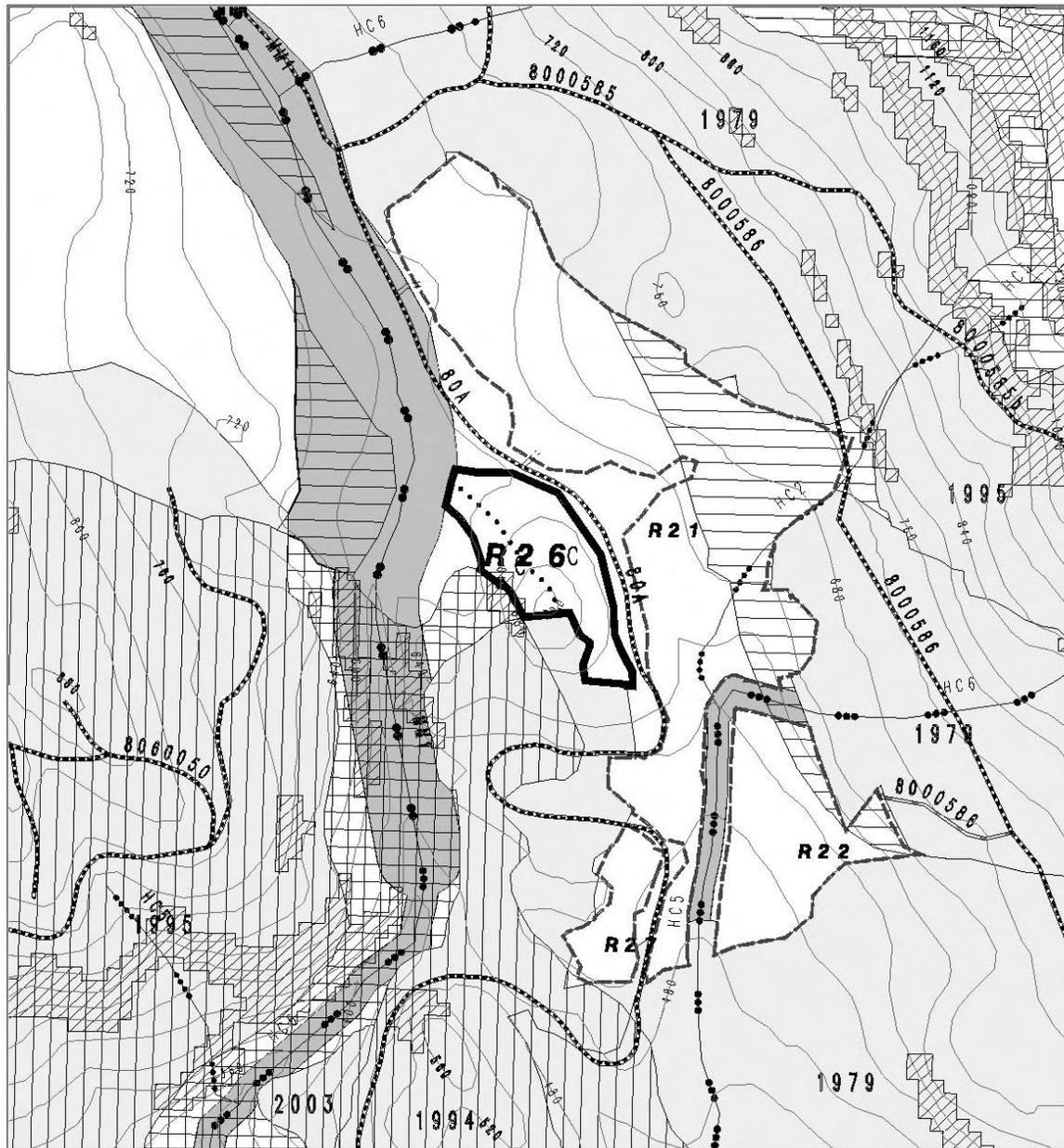
Legal Description: T71S R91E, Sec. 6

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the newly constructed 8000586 Road that will branch from the existing 8000586 Road. Partial suspension will be achieved throughout unit. 0.5 acre of high-value marten habitat will be reserved from harvest (see wildlife section below). A Class III stream along west and north boundary will require directional felling away from the slope-break buffer.**National Forest System (NFS) Roads:** 0.13 mile of new construction required, on moderate terrain**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 3b – Class III HC6/HC5 northwest: Slope break buffer required. Additional windfirm buffer required due to high windthrow risk on northern half of RMA buffer – consult with fisheries personnel during unit layout.**Botany:****Concern:** No resource concerns were identified..**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:****Concern/Protection Measures:** Unit within ½ mile of wintering trumpeter swans; timing restriction for harvest and road-building activities for this unit from November 1 through March 31.

1 acre of high-value marten habitat; must retain ½ acre of high-value marten habitat – recommend along creek. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: R26



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. R26**

LUD: TM

Stand Number: 739010084

Planned Acres: 3

Gross Volume per acre MBF: 10.2

Gross Stand Volume MBF: 30.6

Assigned FACT ID: 7390100174

Photo Number: C109-033

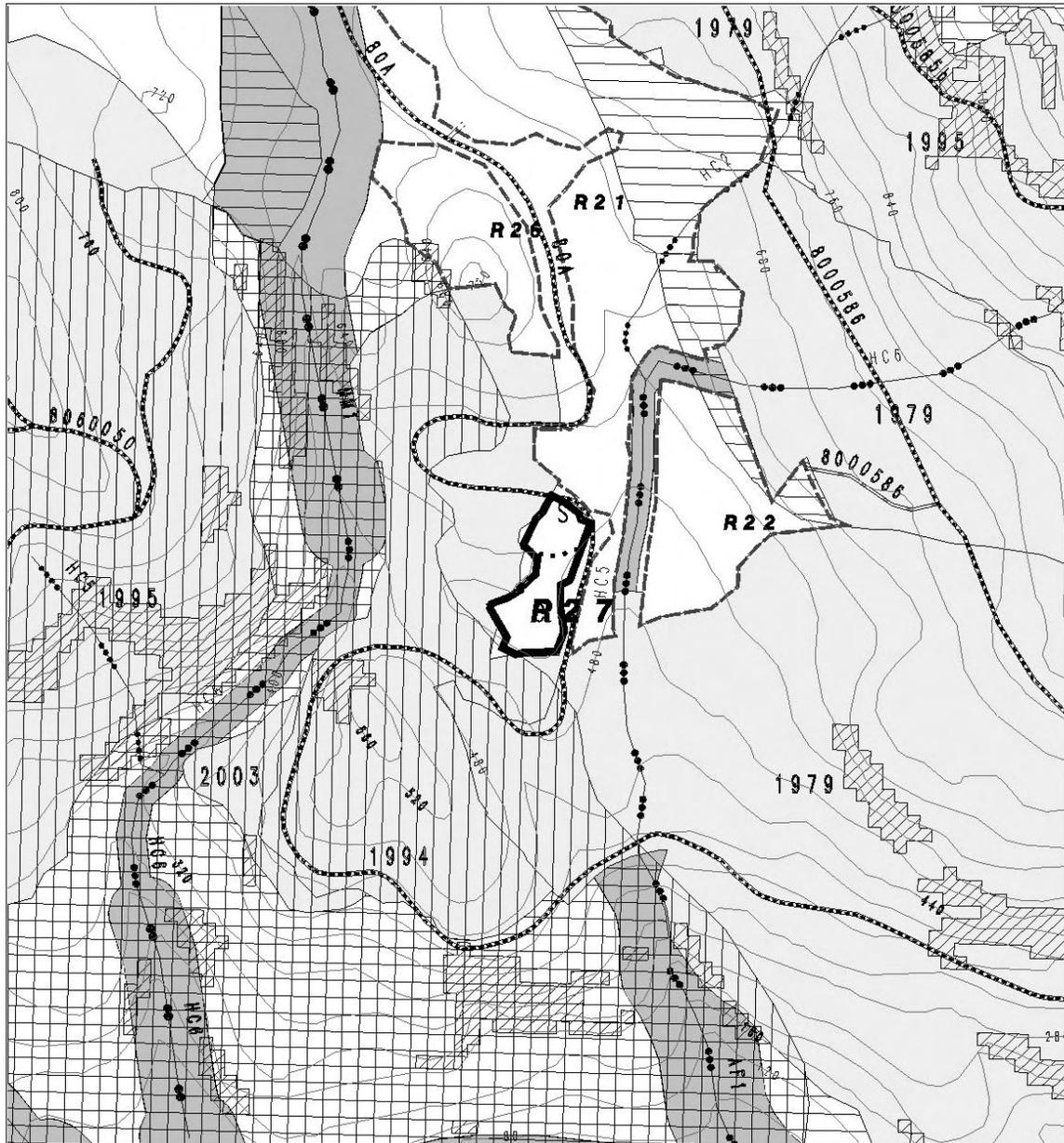
Legal Description: T71S R91E Sec. 6

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 80 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class II stream along northwest boundary will require directional felling away from the no-cut riparian buffer.**National Forest System (NFS) Roads:** No new NFS road construction required.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1a – Class II MM1 west: 120-foot no-cut buffer required.**Botany:****Concern:** No resource concerns were identified..**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:****Concern/Protection Measures:** South part of unit within ½ mile of wintering trumpeter swans.

Timing restriction for harvest and road-building activities in this unit from November 1 through March 31

Appendix 2

Traitors Cove Record of Decision Unit Card: R27



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. R27

LUD: ML

Stand Number: 739010018

Planned Acres: 2

739010084

Gross Volume per acre MBF: 17.2

Assigned FACT ID: 7390100176

Gross Stand Volume MBF: 34.4

Photo Number: C109-031

Legal Description: T71S R91E Sec. 6

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a shovel and short-span skyline cable from the existing 80 Road. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.
Mitigation:

Recreation:
Concern: No resource concerns were identified.

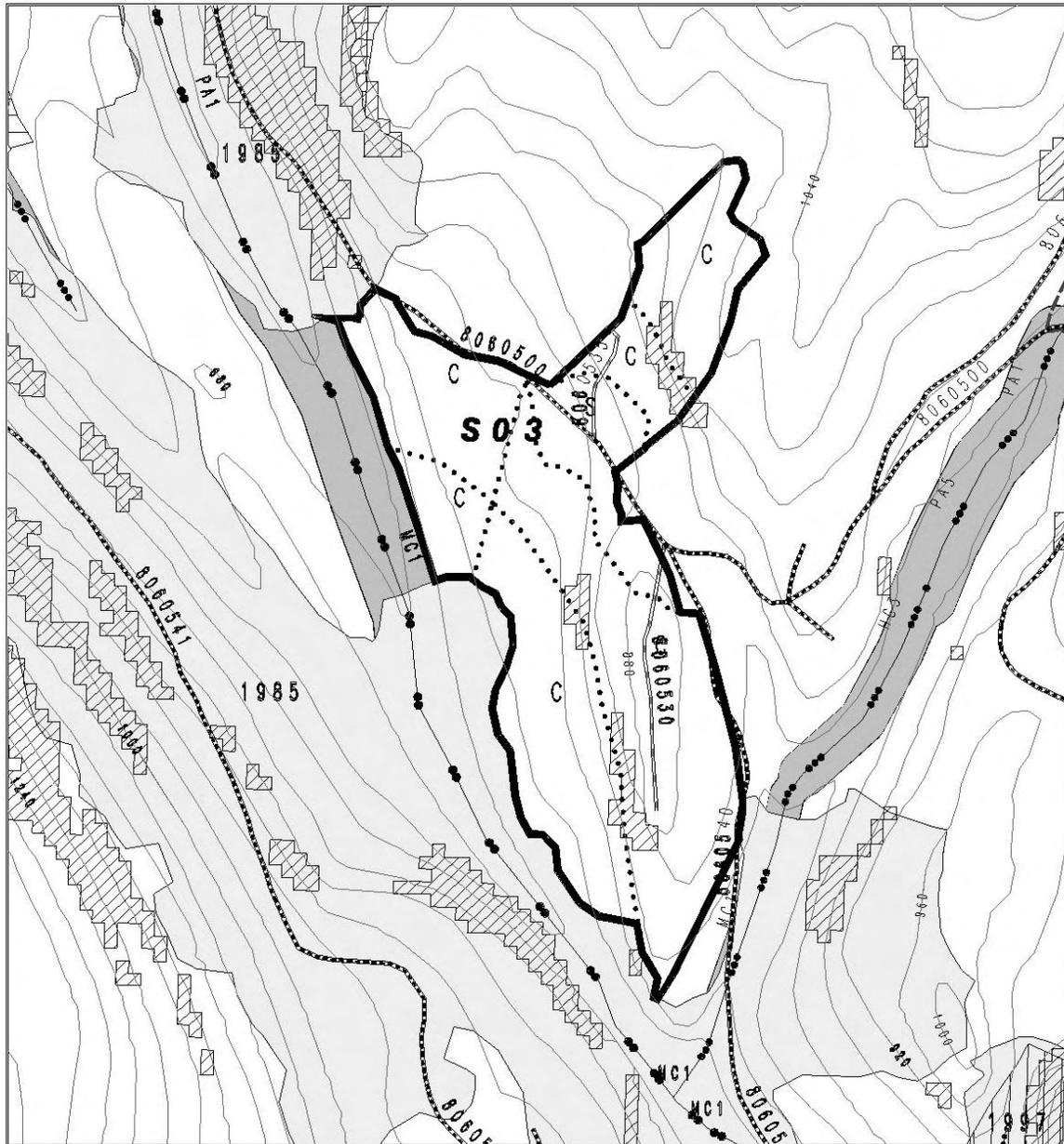
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: On shovel yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:
Concern/Protection Measures: Unit within ½ mile of wintering trumpeter swans. Timing restriction for harvest and roadbuilding activities in this unit from November 1 through March 31

Appendix 2

Traitors Cove Record of Decision Unit Card: S03



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | Map created from GIS Data. This Map may not meet national map accuracy standards. |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. S03

LUD: ML

Stand Number: 736030145

Planned Acres: 32

Gross Volume per acre MBF: 33.4

Gross Stand Volume MBF: 1,068.8

Assigned FACT ID: 7360300165

Photo Number: B102- 035

Legal Description: T71S R89E Sec. 1, 12

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8060500 and 8060540, and newly constructed 8060530 and 8060535 Roads. The timber can be yarded using a shovel in the center portion of unit from the existing 8060500 and 8060540 Roads. Partial suspension will be achieved in the cable-yarded settings. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. A Class II stream along west boundary will require directional felling away from the no-cut riparian buffer.
National Forest System (NFS) Roads: 0.24 mile of new construction required on moderate terrain. Culvert 36" on Road 8060535.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern/Protection Measures: Stream 1a – Class II MC1 west: 100-foot no-cut buffer required.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

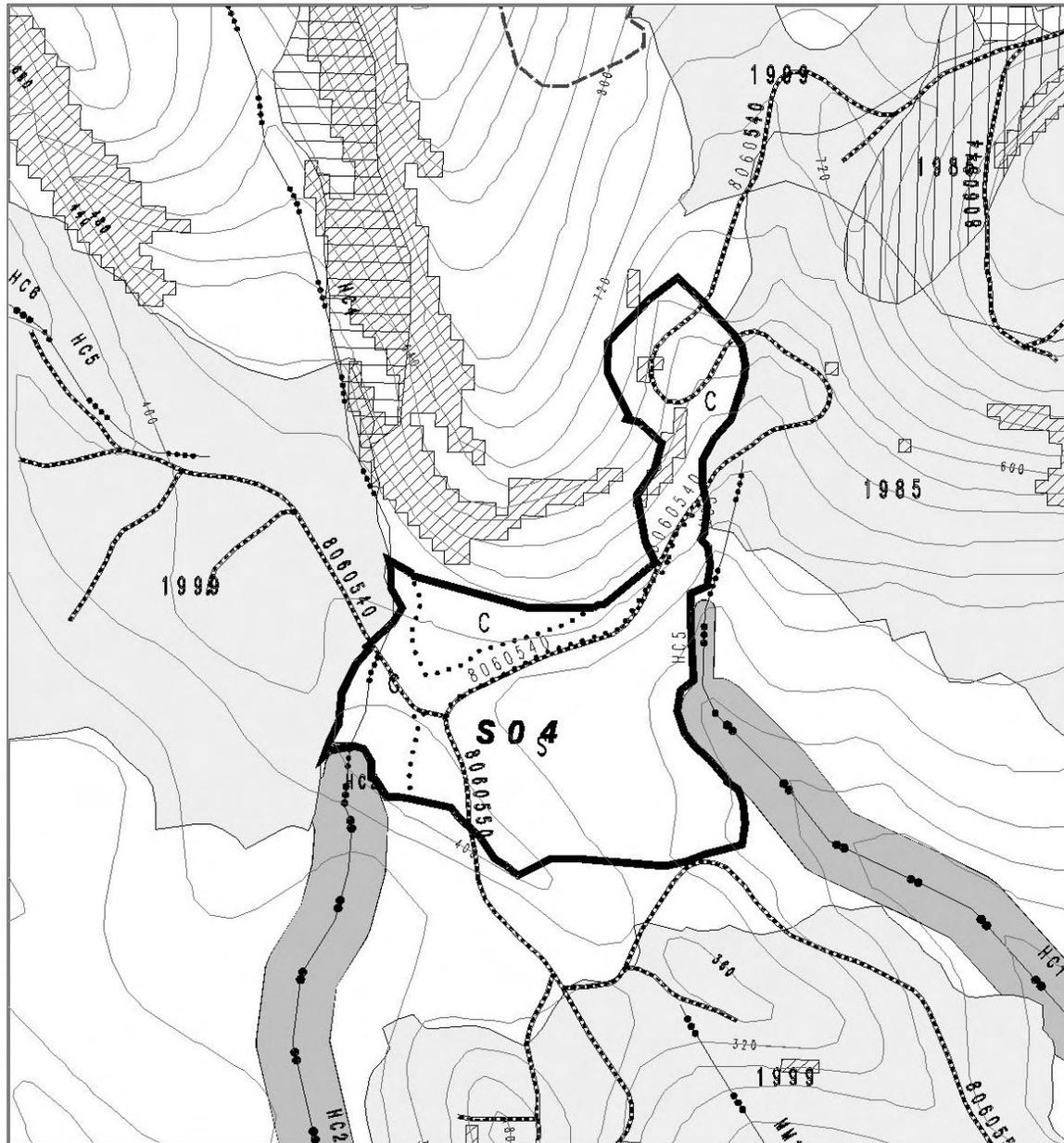
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: All acres over 72 percent slope have been field verified and found to be stable enough for harvest; approximately 1.3 acres (BMP 13.5). On shovel-yarded ground, tracks need to be supported by slash (BMP 13.9).

Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: S04



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MM1 & Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. S04**

LUD: TM-ML

Stand Number: 738010036

Planned Acres: 24

738010042

Gross Volume per acre MBF: 15.5

Photo Number: B102-032

738010070

Gross Stand Volume MBF: 372.0

Assigned FACT ID: 7380100080

Legal Description: T71S R89E Sec. 13

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site prep.

Logging and Transportation: The timber can be yarded using a short-span skyline cable in the north portion of unit from the existing 8060550 and 8060540 Roads. The timber can be yarded using a shovel in the south portion of unit from the existing 8060550 and 8060540 Roads. Partial suspension will be achieved in the cable-yarded settings. Three roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations. Class II streams along southwest boundary and southeast boundary will require directional felling away from the no-cut riparian buffers. Class III streams along southwest boundary and southeast boundary will require directional felling away from the slope-break buffer.

National Forest System (NFS) Roads: No new NFS road construction required.**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern Protection Measures:** Stream 1b – Class III HC5 east: Slope break buffer required.

Stream 1a – Class II HC1 east: 100-foot no-cut buffer required. Additional windfirm buffer required due to high windthrow risk – consult fisheries personnel during unit layout.

Stream 2c – Class IV HC4 west: Split yarding or partial suspension required.

Stream 2b – Class III HC3 west: Slope break buffer required.

Stream 2a – Class II HC2 southwest: 100-foot no-cut buffer required.

Botany:**Concern/Protection Measures:** A population of *Platanthera orbiculata* (round-leaf orchid), 2 individuals, exists outside of the unit but within 25 feet of the western neck boundary. This species is designated imperiled by the State of Alaska.

Depending on boundary and tailhold locations, these populations may be negatively impacted. Care could be taken to avoid.

Geology, Karst, and Caves:**Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.

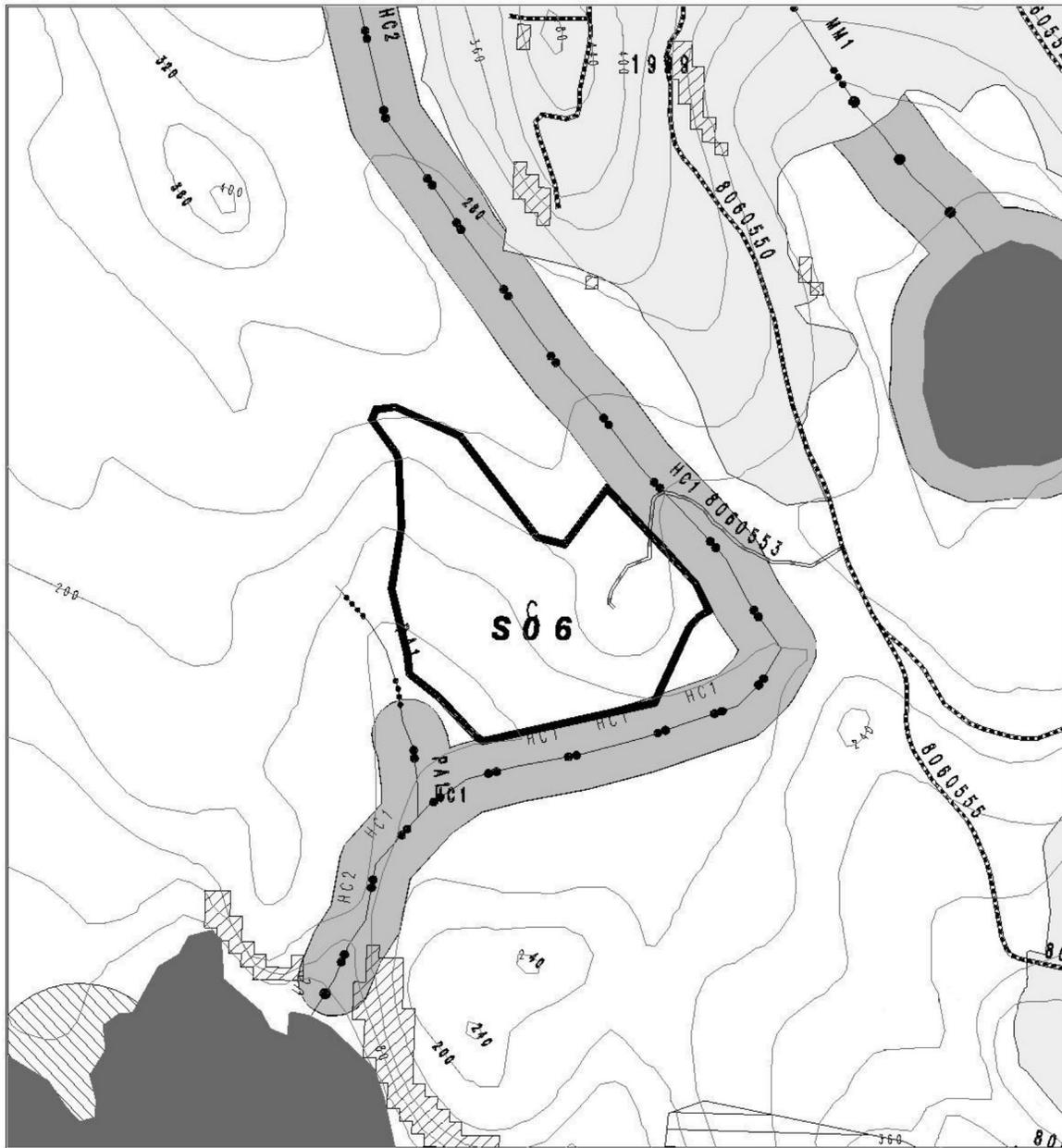
Soils: Concern/Protection Measures: 4.5 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance within the area scheduled for cable yarding in the northern portion and 0.5 acre within the area scheduled for shovel yarding. The 0.5 acre of shovel ground has been field checked and likely contains no McGilvery soils and are suitable for shovel yarding. Tracks need to be supported by slash (BMP 13.9).

Minimum of partial suspension required over the entire length of the yarding distance for all cable yarding in the northern ¼ of the unit.

Wildlife: Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: S06



December 22, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. S06**

LUD: TM

Stand Number: 738010033

Planned Acres: 13

Gross Volume per acre MBF: 28.3

Gross Stand Volume MBF: 367.9

Photo Number: B102-030

Assigned FACT ID: 7380100079

Legal Description: T71S R89E Sec. 13

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the newly constructed 8060553 Road. Partial suspension will be achieved throughout unit. A Class II stream along the southwest to northeast boundary will require directional felling away from the no-cut riparian buffer.**National Forest System (NFS) Roads:** 0.21 mile of new construction required on moderate terrain. Culvert 60".**Temporary Roads:** None**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1a – Class II PA1 southwest: 100-foot no-cut buffer required.

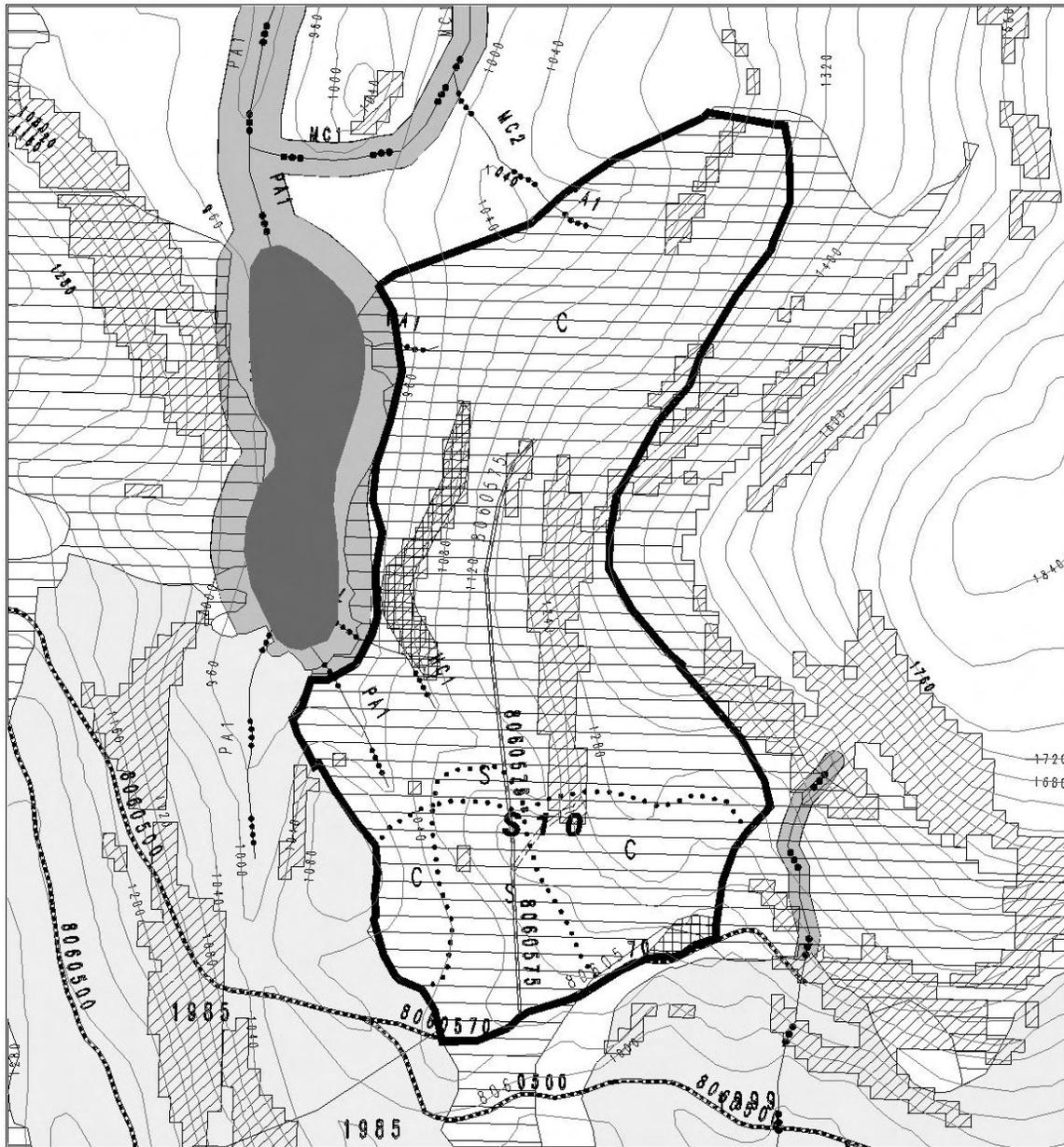
Stream 1c – Class IV PA1 west: Outside unit, no protection required.

Stream 2a – Class II HC1 south and east: 100-foot no-cut buffer required. Additional windfirm buffer required due to high windthrow risk on northeast side of unit – consult fisheries personnel during unit layout.

Botany:**Concern:** A population (single individual) of the state-designated imperiled species *Platanthera orbiculata* (round-leaf orchid) exists near Road 8060553. The road was realigned to avoid the population. No effect to the population is expected**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern:** No resource concerns were identified.**Wildlife:****Concern/Protection Measures:** Adjacent to beach buffer; measure 1,000 feet slope distance from mean high tide to southwest boundary to ensure unit is not within required beach fringe.

Appendix 2

Traitors Cove Record of Decision Unit Card: S10



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. S10**

LUD: TM-ML

Stand Number: 736030018

Planned Acres: 59

Photo Number: AD01-008
007

736030142

Gross Volume per acre MBF: 47.6

738010008

Gross Stand Volume MBF: 2,808.4

Assigned FACT ID: 7360300166

Legal Description: T70S R90E, T71S R90E Sec. 31, 32,5,6

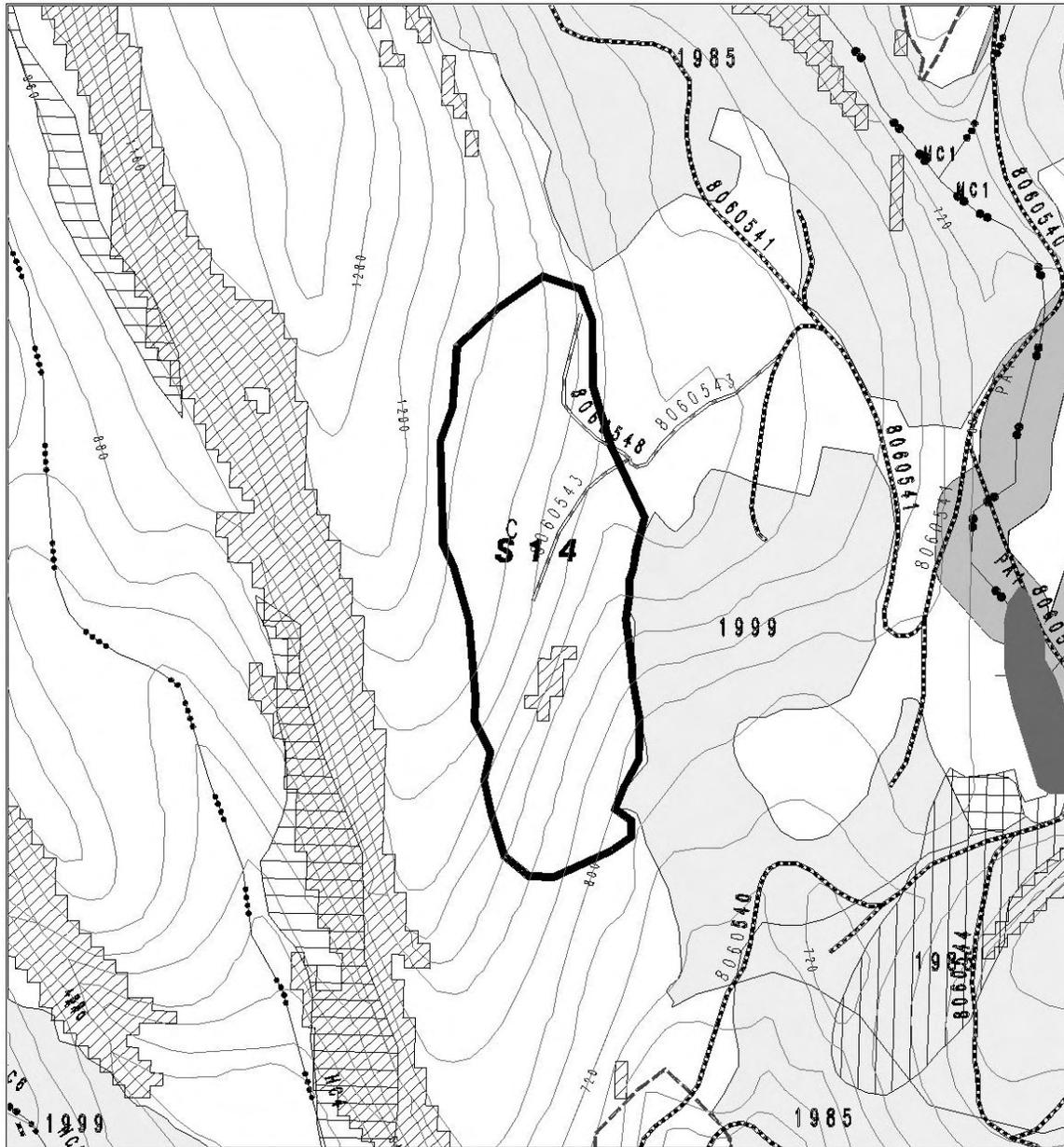
UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8060570, the newly constructed 8060575 Road, and a short temporary road branching from the 8060575 Road. The timber can be yarded using a shovel from the existing 8060570 and newly constructed 8060575 Roads in the south-central portion of unit. Partial suspension will be achieved in the cable-yarded settings. 28.5 acres of high-value marten habitat will be reserved from harvest (see wildlife section below). A lake along northwest boundary will require directional felling away from the no-cut riparian buffer.**National Forest System (NFS) Roads:** 0.36 mile of new construction required, mostly on moderate terrain except for 300 feet of full bench/end haul construction and drill-and-shoot.**Temporary Roads:** .06 mile of temporary road construction.**RESOURCE CONCERNS & MITIGATION****Aquatics: Concern:** Lake west: 100 foot no-cut buffer recommended.

Streams 2c, 3c, 4c, and 5c (south to north) – Class IV PA1, HC: Split yarding or partial suspension required.

Botany: Concern/Protection Measures: No resource concerns were identified..**Geology, Karst, and Caves: Concern:** No resource concerns were identified.**Heritage: Concern:** No resource concerns were identified.**Lands: Concern:** No resource concerns were identified.**Recreation: Concern:** No resource concerns were identified.**Scenery: Concern/ Mitigation Measures:** The northeast boundary of this unit creates a very sharp edge across the landscape. Impacts from any new harvest seen from the entrance to Neets Bay needs to be minimized as much as possible since the impacts from extensive past harvest are just beginning to soften. Leave some scattered clumps of retention along the northeast boundary to soften this edge or leave a couple of larger areas of retention adjacent to the backline to break up this long edge. Visibility of proposed rock pit on 8060570 Road from Traitors Cove should be located to incorporate the standing timber below the road as a visual screen (consult with scenery personnel).**Soils: Concern/Protection Measures:** 27 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance (22 acres cable and 5 shovel). The 5 acres of shovel ground has been field checked and likely contain no McGilvery soils and are suitable for shovel yarding. Tracks need to be supported by slash (BMP 13.9). Minimum of partial suspension required over the entire length of the yarding distance for cable yarding in the unit (S&W 112-I.A.8; BMP 13.9). 2 acres deferred from harvest for unstable slopes recommended for classification as unsuitable forest lands (BMP 13.5). All other acres over 72 percent slope have been field verified and found to be stable enough for harvest; approximately 2.6 acres (BMP 13.5).**Wildlife: Concern/Protection Measures:** 57 acres of high-value marten habitat; must retain 28.5 acres of high-value marten habitat - recommend placing along lake buffer to coincide with soils deferral and scenery concerns, with additional retention in the northeast part of unit. Retention areas should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

Traitors Cove Record of Decision Unit Card: S14



December 04, 2006

- | | | | | | | | |
|--|---------------------------------|--|--------------------|--|--------------------------|--|---------------------------|
| | Class I Stream | | Unit in ROD | | Soil Deferral | | High Value Marten Habitat |
| | Class II Stream | | Existing NFS Road | | Riparian Management Area | | Slopes > 72% |
| | Class III Stream | | Proposed NFS Road | | WMI 4 Soil | | Eagle Nest Buffer |
| | Class IV Stream | | Proposed Temp Road | | Water Bodies | | |
| | Selected Unit Boundary | | | | Prior Harvest by Year | | |
| | Setting Line and Logging System | | | | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet

0 .1 0.2 Miles

TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. S14

LUD: ML

Stand Number: 736030033

Planned Acres: 19

736030156

Gross Volume per acre MBF: 26.4

Photo Number: B102-033

Assigned FACT ID: 7360300162

Gross Stand Volume MBF: 501.6

Legal Description: T71S R89E Sec. 12

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the newly constructed 8060543 and 8060548 Roads. Partial suspension will be achieved throughout unit.
National Forest System (NFS) Roads: 0.31 mile of new construction required, including 500 feet of full bench/end haul construction.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

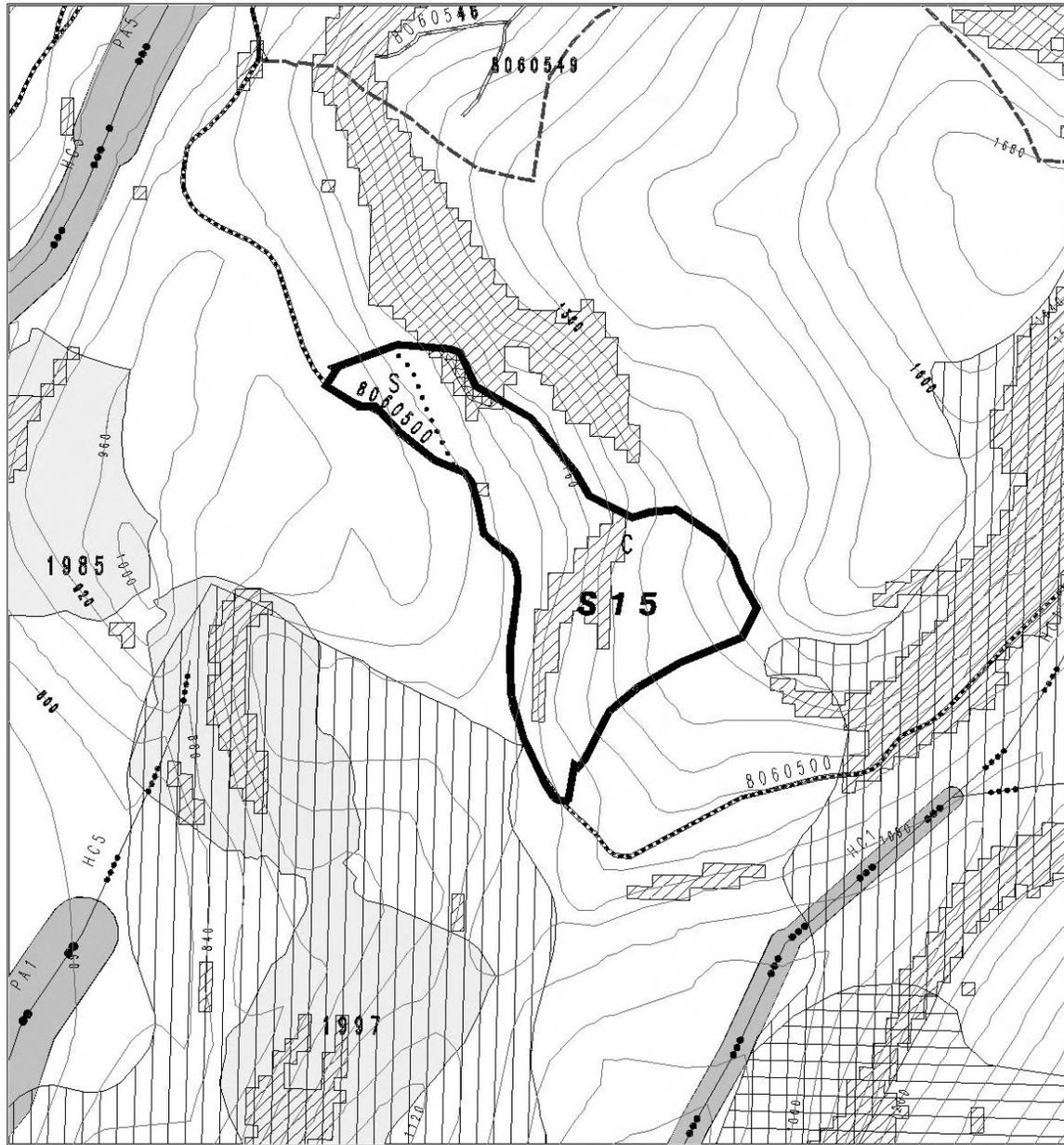
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern: No resource concerns were identified.

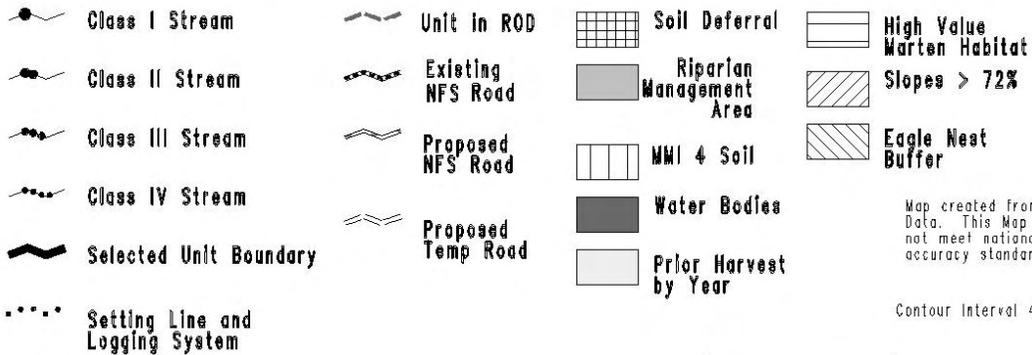
Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: S15



December 04, 2008



Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD

Unit No. S15

LUD: ML

Stand Number: 736030043

Planned Acres: 13

Photo Number: C102-041

Assigned FACT ID: 7360300163

Gross Volume per acre MBF: 26.2

Legal Description: T71S R89E Sec. 12

Gross Stand Volume MBF: 340.6

UNIT DEVELOPMENT

Stand Management Objectives: Regeneration harvest
Silvicultural System: Even-aged management
Regeneration Method: Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation
Future Activities: Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation

Logging and Transportation: The timber can be yarded using a short-span skyline cable from the existing 8060500 Road. The timber can be yarded using a shovel from the existing 8060500 Road in the northwest portion of unit. Partial suspension will be achieved in the cable-yarded settings. Two roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations.
National Forest System (NFS) Roads: No new NFS road construction required.
Temporary Roads: None

RESOURCE CONCERNS & MITIGATION

Aquatics:
Concern: No resource concerns were identified.

Botany:
Concern: No resource concerns were identified.

Geology, Karst, and Caves:
Concern: No resource concerns were identified.

Heritage:
Concern: No resource concerns were identified.

Lands:
Concern: No resource concerns were identified.

Recreation:
Concern: No resource concerns were identified.

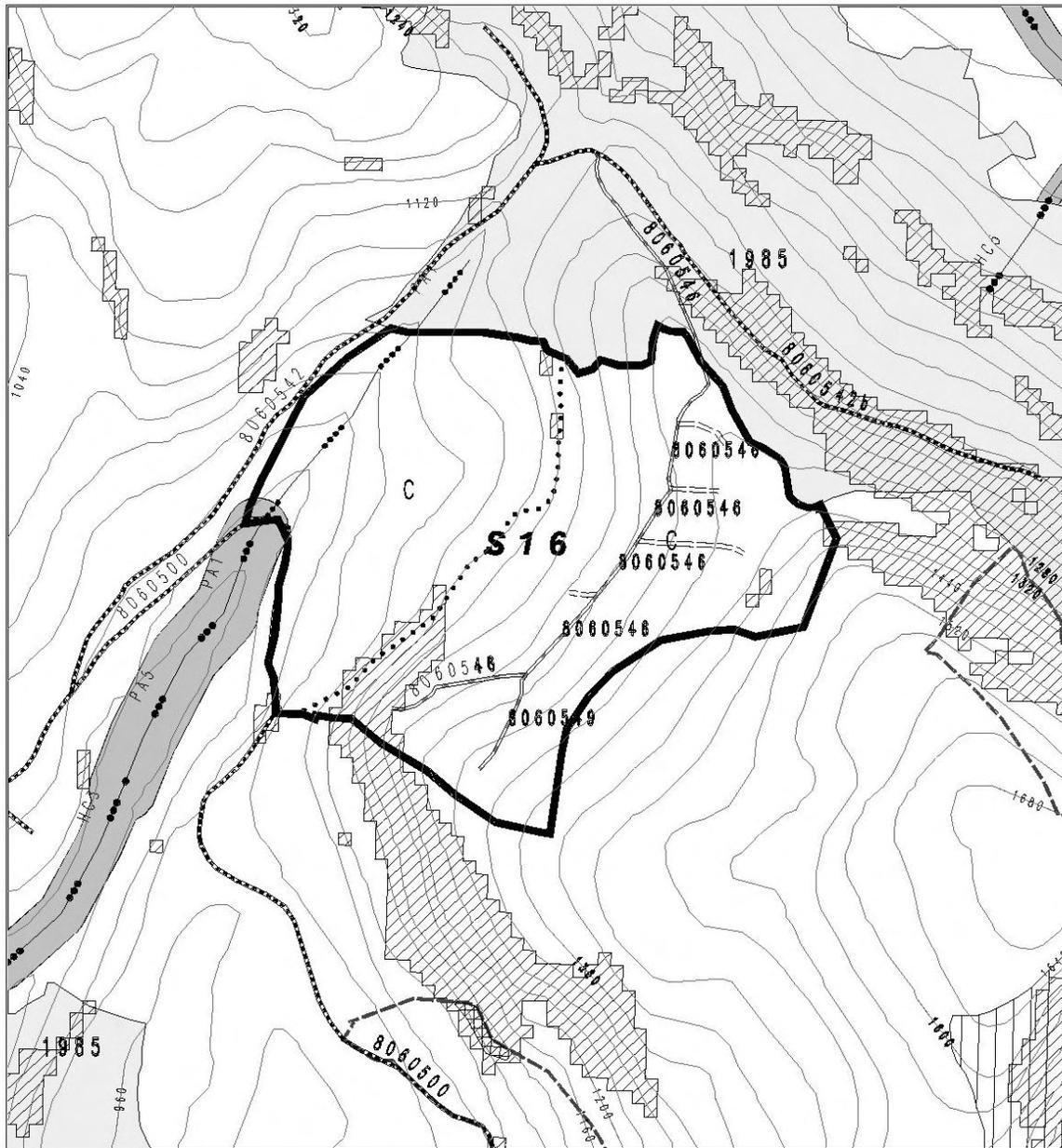
Scenery:
Concern: No resource concerns were identified.

Soils:
Concern/Protection Measures: 11 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. The 1 acre of shovel ground has no McGilvery soils mapped on it and is suitable for shovel yarding. Tracks need to be supported by slash (BMP 13.9).. Minimum of partial suspension required over the entire length of the yarding distance for all cable yarding on the unit (S&W 112-I.A.8; BMP 13.9). Soils deferral area along northeast boundary recommended for classification as unsuitable forest lands (BMP 13.5). All acres over 72 percent slope have been field verified and found to be stable enough for harvest; approximately 1.2 acres (BMP 13.5).

Wildlife:
Concern: No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: S16



December 04, 2006

- | | | | |
|---------------------------------|--------------------|--------------------------|---------------------------|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | MMI 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Setting Line and Logging System | | | |

Map created from GIS Data. This Map may not meet national map accuracy standards.

Contour Interval 40 feet



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. S16**

LUD: ML

Stand Number: 736030043

Planned Acres: 39

Photo Number: C102-042

Assigned FACT ID: 7360300167

Gross Volume per acre MBF: 18.0

Legal Description: T71S R89E, T71S R90E Sec. 1, 12, 6

Gross Stand Volume MBF: 702.0

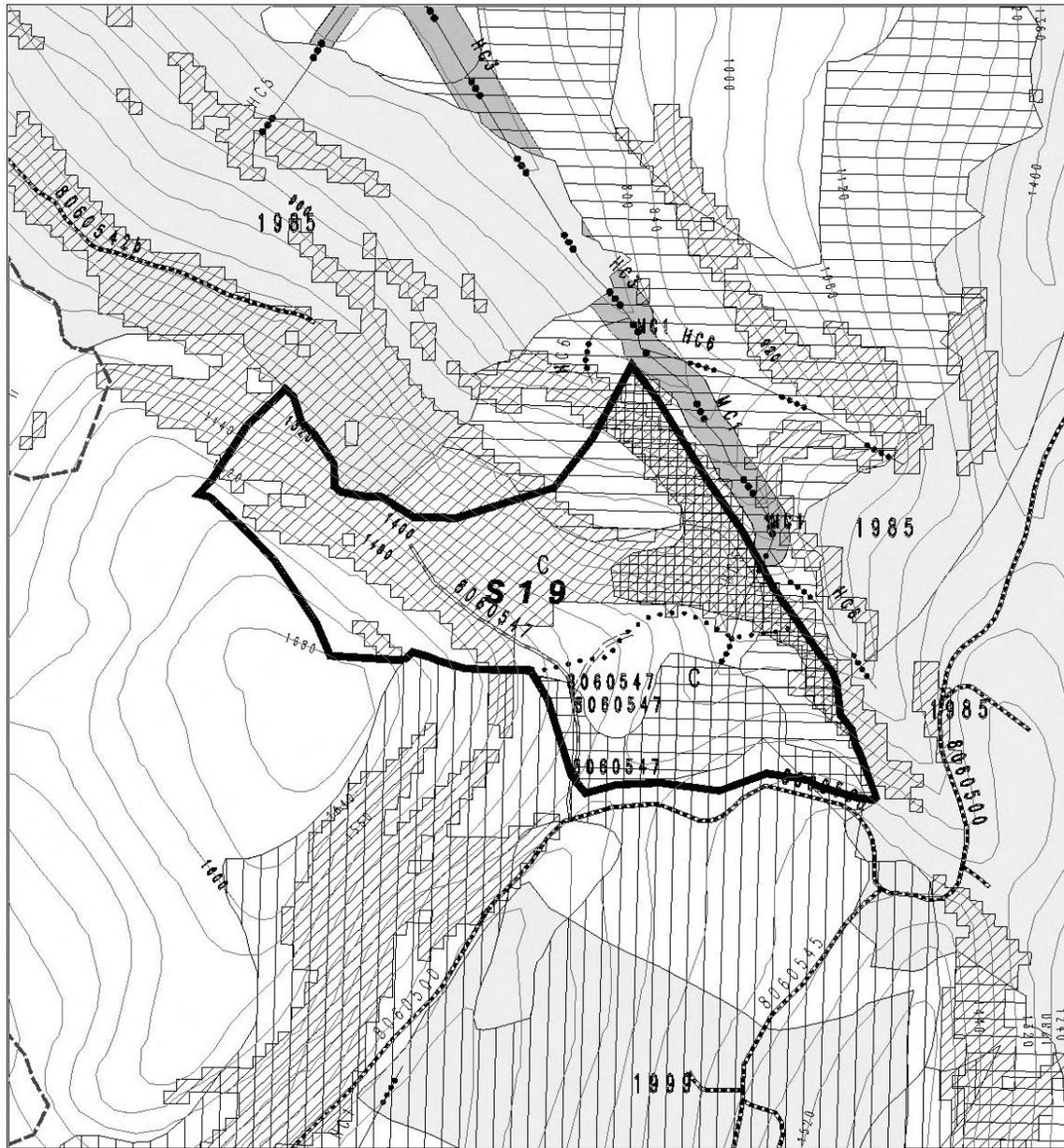
UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8060542 and 8060500 Roads and newly constructed 8060546 and 8060549 Roads. Partial suspension will be achieved throughout unit. Two roadside landings, less than 75 feet in diameter, can be constructed to widen existing road in strategic locations for log yarding and decking operations.**National Forest System (NFS) Roads:** 0.62 mile of new construction required, mostly on moderate terrain except for 300 feet of full bench/end haul construction. Some steep grades to 18 percent required.**Temporary Roads:** 0.12 mile of temporary road construction (four temporary roads)**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1c – Class IV PA1 west: Split yarding or partial suspension required.

Stream 1b - Class III PA1 west: buffer does not extend north of the road into unit.

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** 28 acres mapped as containing McGilvery soils (shallow organic over bedrock) susceptible to detrimental disturbance. Minimum of partial suspension required over the entire length of the yarding distance for all cable yarding on the unit (S&W 112-I.A.8; BMP 13.9). All acres over 72 percent slope have been field verified and found to be stable enough for harvest, approx 1.6 acres (BMP 13.5).**Wildlife:****Concern:** No resource concerns were identified.

Appendix 2

Traitors Cove Record of Decision Unit Card: S19



December 04, 2006

- | | | | |
|----------------------------------|--------------------|--------------------------|---|
| Class I Stream | Unit in ROD | Soil Deferral | High Value Marten Habitat |
| Class II Stream | Existing NFS Road | Riparian Management Area | Slopes > 72% |
| Class III Stream | Proposed NFS Road | M1 4 Soil | Eagle Nest Buffer |
| Class IV Stream | Proposed Temp Road | Water Bodies | Map created from GIS Data. This Map may not meet national map accuracy standards. |
| Selected Unit Boundary | | Prior Harvest by Year | |
| Settling Line and Logging System | | | Contour Interval 40 feet |



TRAITORS COVE TIMBER SALE-UNIT DATA CARD**Unit No. S19**

LUD: ML

Stand Number: 736030043

Planned Acres: 29

736030071

Gross Volume per acre MBF: 52.3

738010049

Gross Stand Volume MBF: 1,516.7

Assigned FACT ID: 7360300164

Photo Number: B103-42

Legal Description: T71S R90E Sec. 6, 7

UNIT DEVELOPMENT**Stand Management Objectives:** Regeneration harvest**Silvicultural System:** Even-aged management**Regeneration Method:** Clearcut with Leave trees (Wildlife Reasons) Areas. Natural regeneration without site preparation**Future Activities:** Stocking survey in 3rd year following harvest, certification of natural regeneration without site preparation.**Logging and Transportation:** The timber can be yarded using a short-span skyline cable from the existing 8060500 Road and newly constructed 8060547 road that will branch from the 8060500 Road. Temporary road branches from 8060547 Road. Partial suspension will be achieved throughout unit. One roadside landing, less than 75 feet in diameter, can be constructed to widen existing road in a strategic location for log yarding and decking operations. 6 acres of high-value marten habitat will be reserved from harvest (see wildlife section below). A Class III stream along northeast boundary will require directional felling away from the slope-break buffer.**National Forest System (NFS) Roads:** 0.2 mile of new construction required, including 600 feet of full bench/end haul construction and drill work on steep slopes.**Temporary Roads:** .04 mile of temporary road construction**RESOURCE CONCERNS & MITIGATION****Aquatics:****Concern/Protection Measures:** Stream 1b – Class III MC1 northeast: Slope break buffer required.

Stream 1c – Class IV HC5 east: Split yarding or partial suspension required.

Botany:**Concern:** No resource concerns were identified.**Geology, Karst, and Caves:****Concern:** No resource concerns were identified.**Heritage:****Concern:** No resource concerns were identified.**Lands:****Concern:** No resource concerns were identified.**Recreation:****Concern:** No resource concerns were identified.**Scenery:****Concern:** No resource concerns were identified.**Soils:****Concern/Protection Measures:** 4 acres deferred for unstable slopes along east boundary recommended for classification as unsuitable forest lands (BMP 13.5).

Minimum of partial suspension required over the entire length of the yarding distance for the entire unit (BMP 13.9). All other acres over 72 percent slope have been field verified and found to be stable enough for harvest, approx 7.4 acres (BMP 13.5). Other areas mapped as MMI4 soils have been field verified and found to be stable enough for harvest (BMP 13.2, 13.5)

Wildlife:**Concern/Protection Measures:** 12 acres of high-value marten habitat; must retain 6 acres of high-value marten habitat – recommend along creek. Retention area should have at least 8 large trees/acre (20-30 inch DBH or larger), at least 3 large decadent trees/acre, and at least 3 pieces/acre of downed material (20-30 inch or greater diameter at large end and at least 10 feet long) and should have a reasonable assurance of windfirmness.

Appendix 2

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