

# Appendix C

## Road Card Additions

### Introduction

Between DEIS and FEIS, nine short segments, totaling 0.4 mile, of existing, unauthorized roads that access rock pits were added to the action alternatives (see Figure C-2). Because rock pits are needed for this project, as well as for future road maintenance, all action alternatives propose reclassifying these existing, “unauthorized” roads to NFS roads (using today’s road vocabulary, this reclassification is called construction).

The remaining road proposals in Appendix C of the DEIS were not changed; the reader is referred to the DEIS for those road cards.

Where road-related general design elements or mitigation measures were added or changed between DEIS and FEIS, those additions and changes are shown in this appendix.

### General Mitigation Measures

Operational Maintenance Levels indicate the level of road maintenance, either Maintenance Level 2 or 3, during sale-related activities. Objective Maintenance Levels (maintenance levels 1, 2, or 3) indicate the long-term maintenance plan for the roads (after completion of the sale) and incorporate Traffic Service Levels, as described in the following definitions. The following maintenance levels apply to both Operational and Objective Maintenance Levels; applicable maintenance levels for the project area are:

- Maintenance Level 1 - Assigned to intermittent service roads during time they are closed to vehicular traffic. In the Iyouktug project, all new NFS roads and NFS roads to be reconstructed, as well as roads designated for closure would be closed to all motorized vehicles and put into storage after timber harvest. For this project, the process/action of storage would involve closing a road to vehicle traffic and placing it in a condition that requires minimum maintenance to protect the environment and preserve the facility for future use. Drainage structures in live drainages would be completely removed to restore natural drainage patterns. Ditch relief culverts may be left in place and supplemented with deep water bars in order to minimize the cost of reusing the roads in the future. Roads would be closed by barrier or bridge removal and monitored for resource protection. If the closed road is causing resource damage, BMP maintenance shall be performed to keep damage to an acceptable level. Road storage would also include storm proofing: provide water bars, out sloping, etc., to assure controlled runoff and meet BMPs. Each culvert would be evaluated as to where the water would go if the culvert were to fail to carry the high flow. A water bar or out slope at this location would minimize the potential for erosion of long stretches of ditch line or roadway. Grass seeding would follow directions in Supplement No.: R10 TNF – 2000-2007-1. Roads in storage are left in a self-maintaining state in order to use more

road maintenance funds on open drivable roads. In the Iyouktug project, the intent is to remove all stream crossing structures upon closure of roads.

### **Invasive Species Design Elements for Roads**

The following design elements are to be implemented for NFS roads as well as temporary roads (see also unit cards).

On October 19, 2007, the Tongass National Forest implemented a supplement to the Forest Service Manual 2080 concerning invasive plant species (Supplement No.: R10 TNF – 2000-2007-1). The following design elements would be used to address invasive species in the Iyouktug project area.

- For oxeye daisy, creeping buttercup, and anise, which have very limited distribution, instigate manual control measures (as described in the Sitka and Hoonah Ranger Districts Weed Eradication Decision Memo) in rock quarries prior to new road construction.
- Inspect rock quarries for reed canary grass infestation prior to use and designate preferred clean areas for rock extraction. Paint or otherwise designate portions of quarries that are heavily infested with reed canary grass. Stockpile or use rock infested with reed canary grass close to the rock source, preferably on existing roads, for reconstruction, or at the intersection of new roads. Use uninfested rock on new roads wherever possible.
- Where feasible and where safety will not be compromised, for new road construction, limit the clearing of road-side trees to maintain a 100-yard long forested buffer at or near the starting junction. This will maintain forest canopy cover over the road and road cutbanks to create a shaded corridor that will suppress weed species. Sufficient shade over a road effectively serves as a barrier to the spread of some weed species. Limited clearing would not apply to harvest units.
- Road brushing and other road maintenance associated with the project should be designed to reduce the risk of spreading weed species (see FSM 2080 Supplement No.: R10 TNF – 2000-2007-1).

In addition to design elements, monitoring of roads and quarries will occur. The invasive species coordinator, or their representative, will monitor roads that are to be closed/stored 2 to 3 years after closure and manually treat weeds as identified in the Sitka and Hoonah Ranger Districts Weed Eradication Decision Memo. The invasive species coordinator, or their representative, will monitor other constructed roads, active quarries, and other parts of the project area 2 to 3 years after project completion for new weed introductions and manually treat weeds as identified in the Sitka and Hoonah Ranger Districts Weed Eradication Decision Memo. Because this project may last for an extended period, monitoring should occur at least every other year in areas of ground-disturbance during the project.

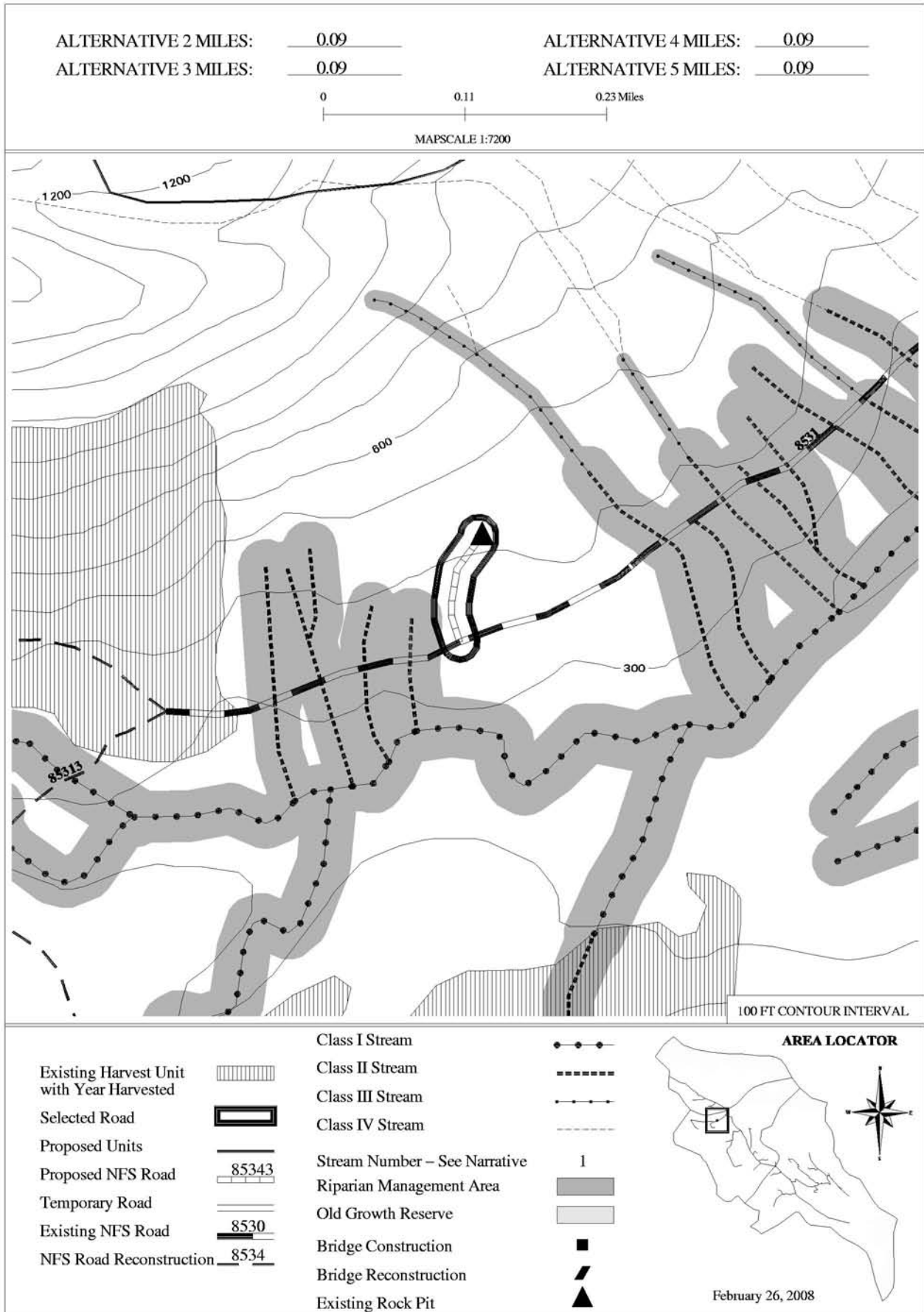
Figure C-1: RMOs and rock pit road locations and numbers

11x17" B & W map

Back of Figure C-1

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IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8531L0.615RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale      **System:** Hoonah - Gypsum      **Land Use Designation:** Timber Production  
**Route No.:** 85301L0.615RP      **Route Name:**      **Status:** Existing  
**Begin M.P.:** 0.00      **Length (miles):** 0.09      **Begin Termini:** 0.00      **End Termini:** 0.09

### General Design Criteria and Elements

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

### Maintenance Criteria

Alternatives	Begin Milepost	End Milepost	Operational Maintenance Level:	Objective Maintenance Level: (desired future condition)
2, 3, 4, 5	0.00	0.09	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

### Operation Criteria

**Highway Safety Act:** No      **Jurisdiction:** National Forest      **AFRPR Status:** active

### **Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

### **District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No. 8531L0.615RP

**Road Location:** The road corridor begins at mile post 0.615 on Road 8531 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** A portion of NFS Road 8531 is the southern boundary for the Hippoback goshawk nest buffer. This road will remain open. The one rock pit that is accessed from Road 8531 occurs within the goshawk nest buffer. The rock pit is greater than 600 feet from the existing nest site and may be used at any time during the goshawk nesting season. However, if a new nest site is located and the rock pit falls within 600 feet of an active nest site, then contact the project biologist; follow Forest Plan direction for developing and maintaining the nest buffer.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.



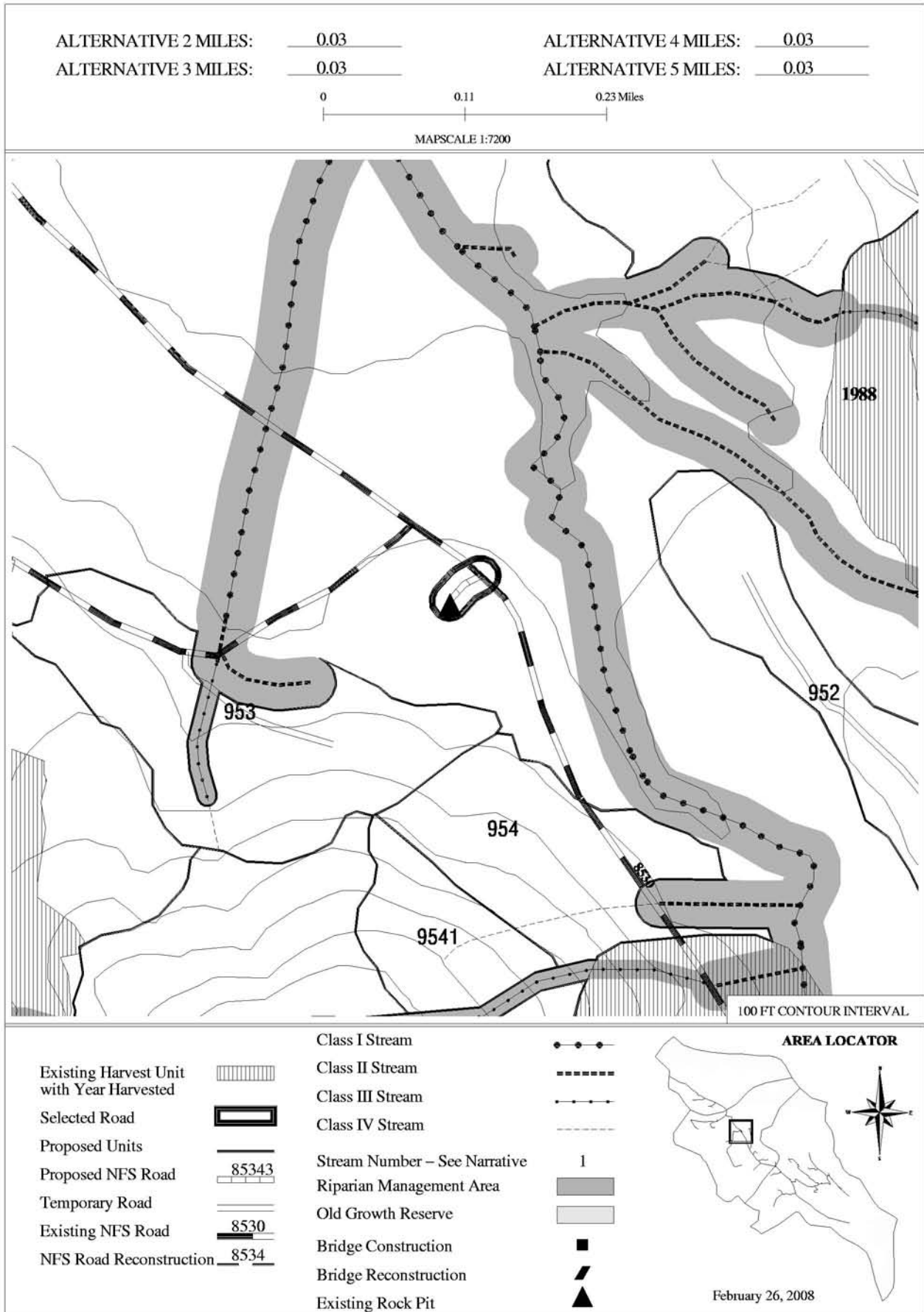
## **Road Management Objectives**

### **Stream Crossings**

**Road No. 8531L0.615RP**

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8530R11.794RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale      **System:** Hoonah - Gypsum      **Land Use Designation:** Timber Production  
**Route No.:** 8530R11.794RP      **Route Name:**      **Status:** Existing  
**Begin M.P.:** 0.00      **Length (miles):** 0.03      **Begin Termini:** 0.00      **End Termini:** 0.03

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.03	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No      **Jurisdiction:** National Forest      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No. 8530R11.794RP

**Road Location:** The road corridor begins at mile post 11.794 on Road 8530 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.

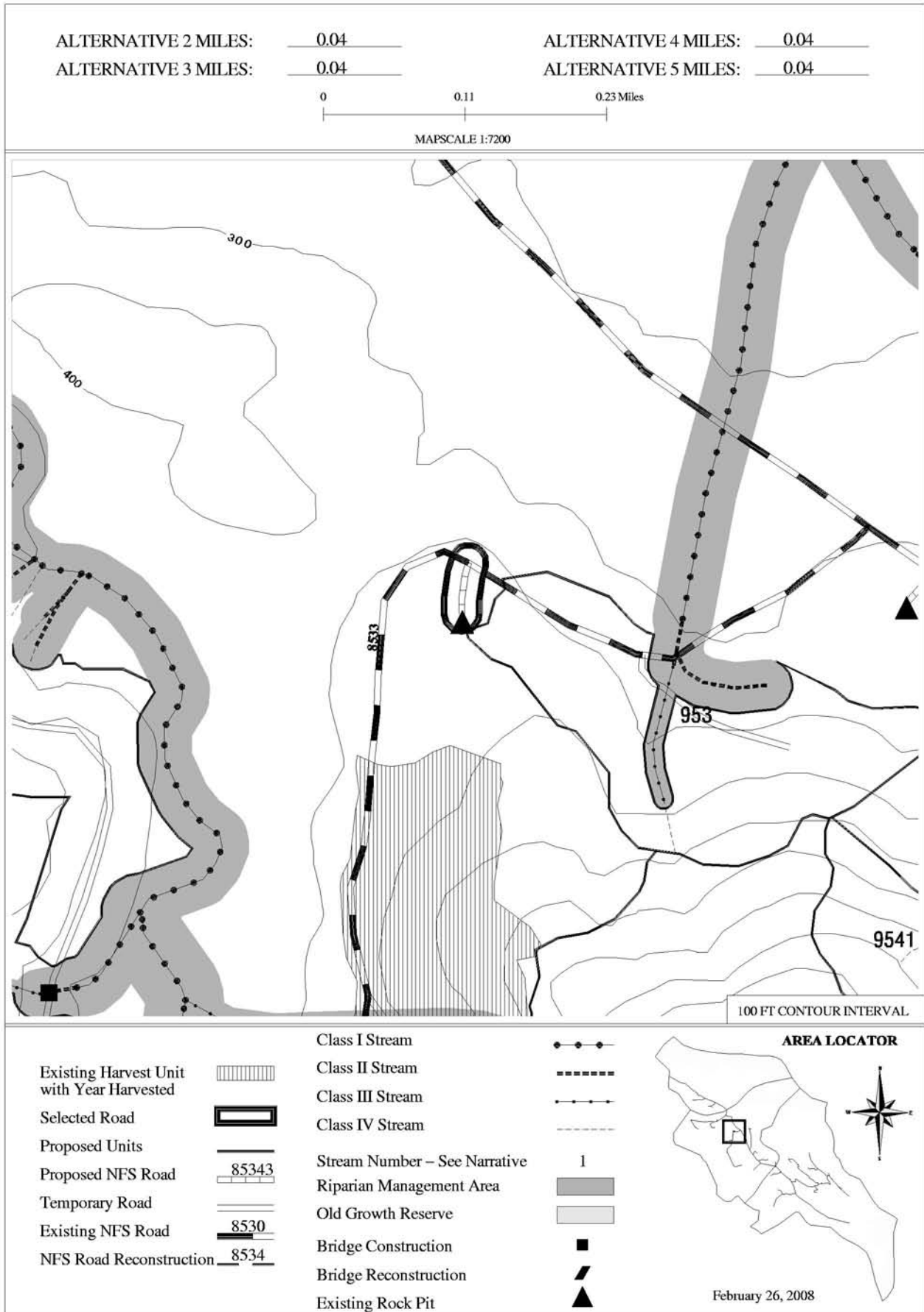
## **Road Management Objectives**

### **Stream Crossings**

**Road No. 8530R11.794RP**

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8533L0.365RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale                      **System:** Hoonah - Gypsum                      **Land Use Designation:** Timber Production  
**Route No.:** 8533L0.365RP                      **Route Name:**                      **Status:** Existing  
**Begin M.P.:** 0.00                      **Length (miles):** 0.04                      **Begin Termini:** 0.00                      **End Termini:** 0.04

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.04	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No                      **Jurisdiction:** National Forest                      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No.      8533L0.365RP

**Road Location:** The road corridor begins at mile post 0.365 on Road 8533 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.



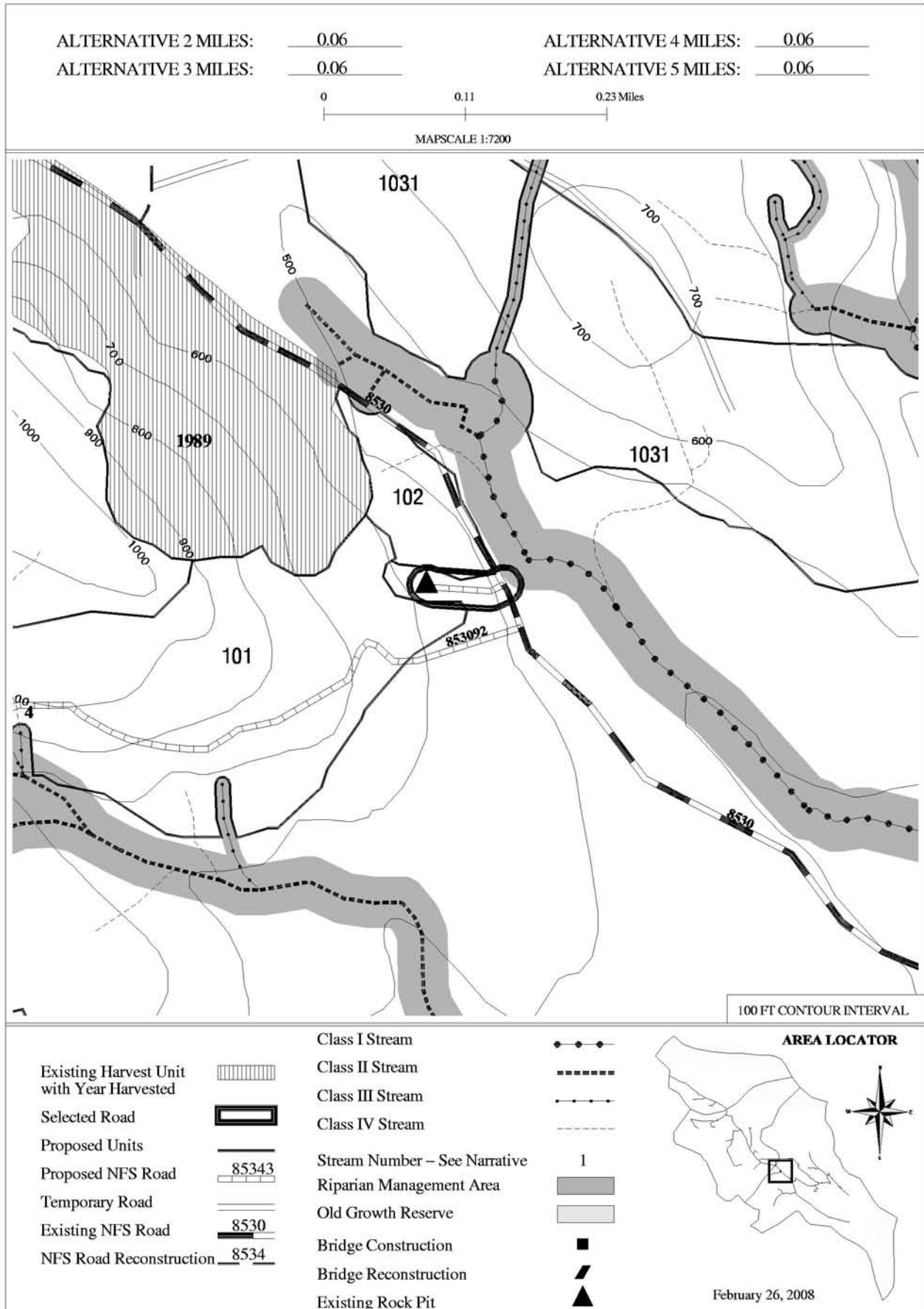
## **Road Management Objectives**

### **Stream Crossings**

**Road No. 8533L0.365RP**

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8530R15.258RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale      **System:** Hoonah - Gypsum      **Land Use Designation:** Timber Production  
**Route No.:** 8530R15.258RP      **Route Name:**      **Status:** Existing  
**Begin M.P.:** 0.00      **Length (miles):** 0.06      **Begin Termini:** 0.00      **End Termini:** 0.06

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.06	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No      **Jurisdiction:** National Forest      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No. 8530R15.258RP

**Road Location:** The road corridor begins at mile post 15.258 on Road 8530 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.

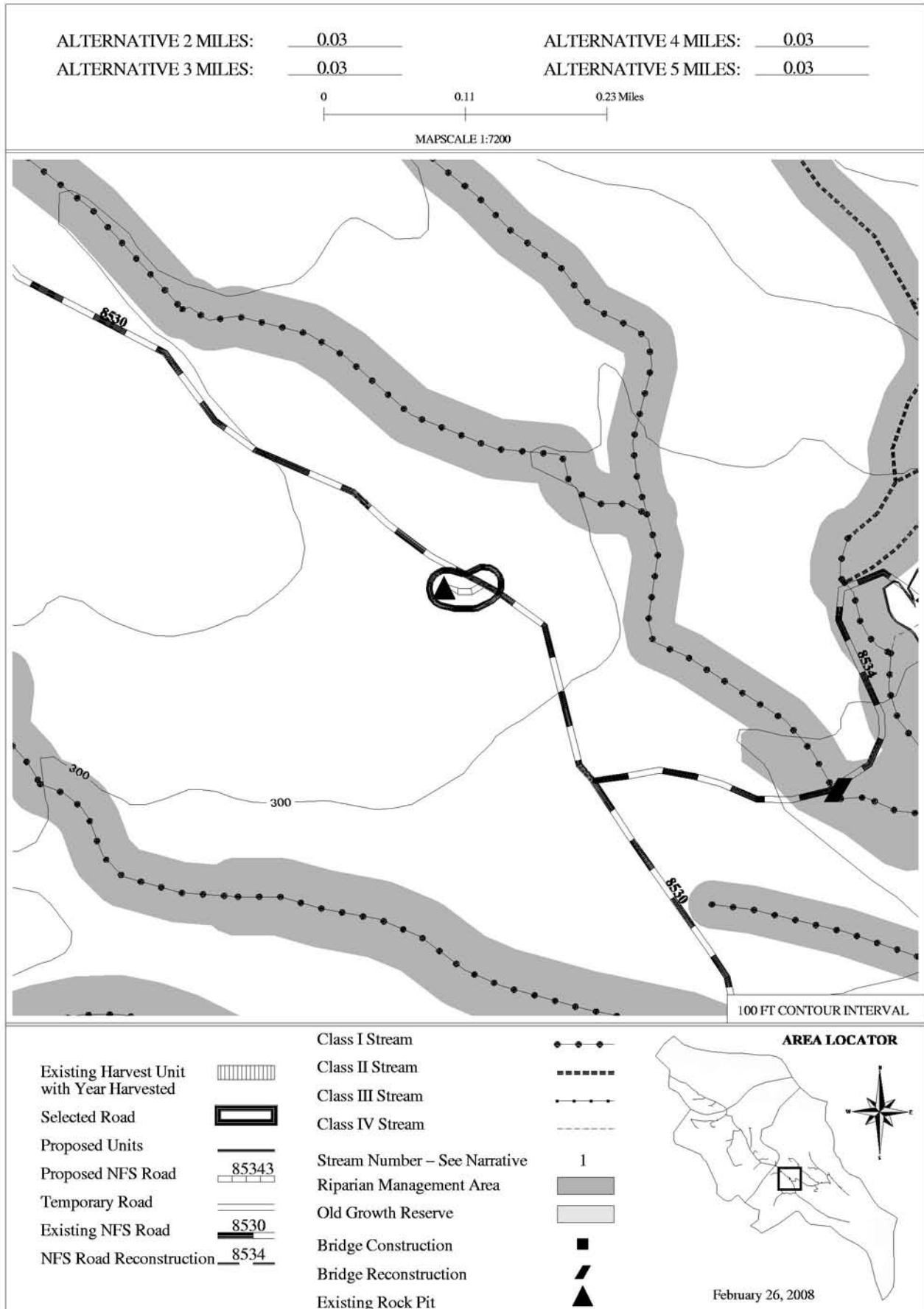
## **Road Management Objectives**

### **Stream Crossings**

**Road No. 8530R15.258RP**

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8530R15.901RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale      **System:** Hoonah - Gypsum      **Land Use Designation:** Timber Production  
**Route No.:** 8530R15.901RP      **Route Name:**      **Status:** Existing  
**Begin M.P.:** 0.00      **Length (miles):** 0.03      **Begin Termini:** 0.00      **End Termini:** 0.03

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.03	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No      **Jurisdiction:** National Forest      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No. 8530R15.901RP

**Road Location:** The road corridor begins at mile post 15.901 on Road 8530 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.



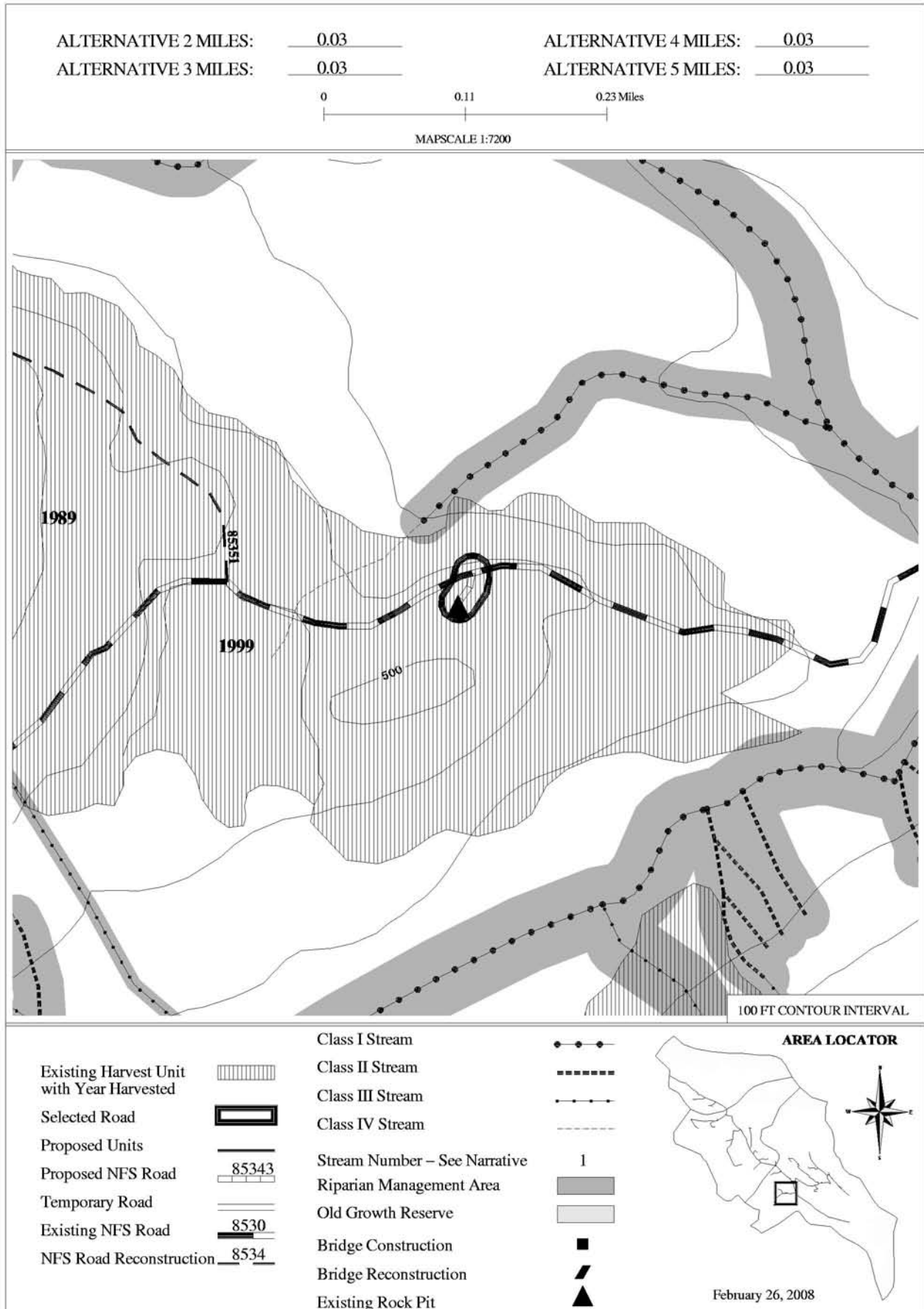
## **Road Management Objectives**

### **Stream Crossings**

**Road No. 8530R15.901RP**

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8535L0.625RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale  
**Route No 8535L0.625RP**      **System:** Hoonah - Gypsum      **Land Use Designation:** Timber Production  
**Route Name:**      **Status:** Existing  
**Begin M.P.:** 0.00      **Length (miles):** 0.03      **Begin Termini:** 0.00      **End Termini:** 0.03

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.03	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No      **Jurisdiction:** National Forest      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No.      8530L0.625RP

**Road Location:** The road corridor begins at mile post 0.625 on Road 8535 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.

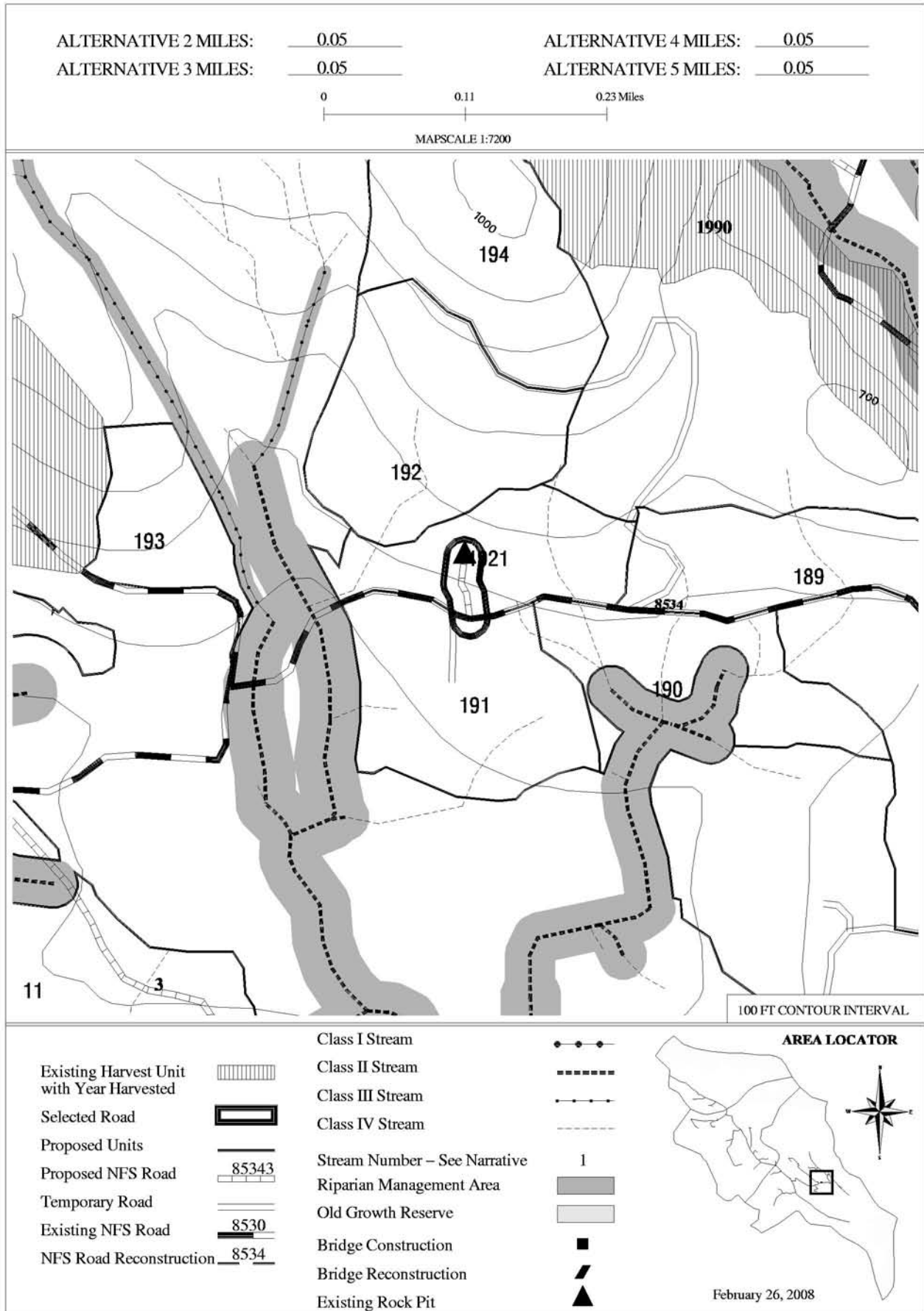
## **Road Management Objectives**

### **Stream Crossings**

**Road No. 8535L0.625RP**

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8534L2.101RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale                      **System:** Hoonah - Gypsum                      **Land Use Designation:** Timber Production  
**Route No** 8534L2.101RP                      **Route Name:**                      **Status:** Existing  
**Begin M.P.:** 0.00                      **Length (miles):** 0.05                      **Begin Termini:** 0.00                      **End Termini:** 0.05

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.05	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No                      **Jurisdiction:** National Forest                      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No. 8534L2.101RP

**Road Location:** The road corridor begins at mile post 0.2.101 on Road 8534 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.



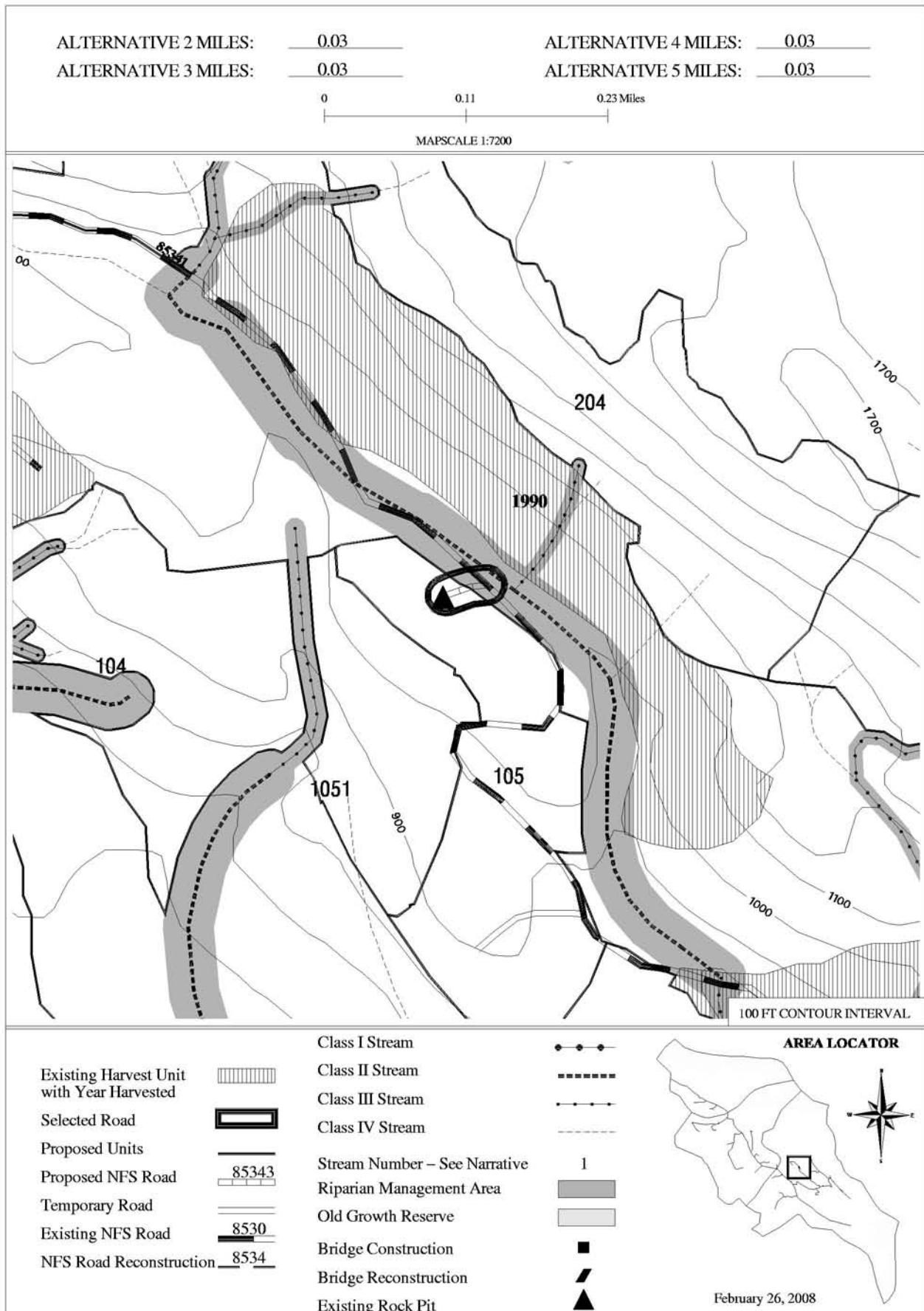
## Road Management Objectives

### Stream Crossings

Road No. 8534L2.101RP

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 85341L1.858RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale      **System:** Hoonah - Gypsum      **Land Use Designation:** Timber Production  
**Route No 85341L1.858RP**      **Route Name:**      **Status:** Existing  
**Begin M.P.:** 0.00      **Length (miles):** 0.03      **Begin Termini:** 0.00      **End Termini:** 0.03

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.03	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No      **Jurisdiction:** National Forest      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No. 85341L1.858RP

**Road Location:** The road corridor begins at mile post 1.858 on Road 85341 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.

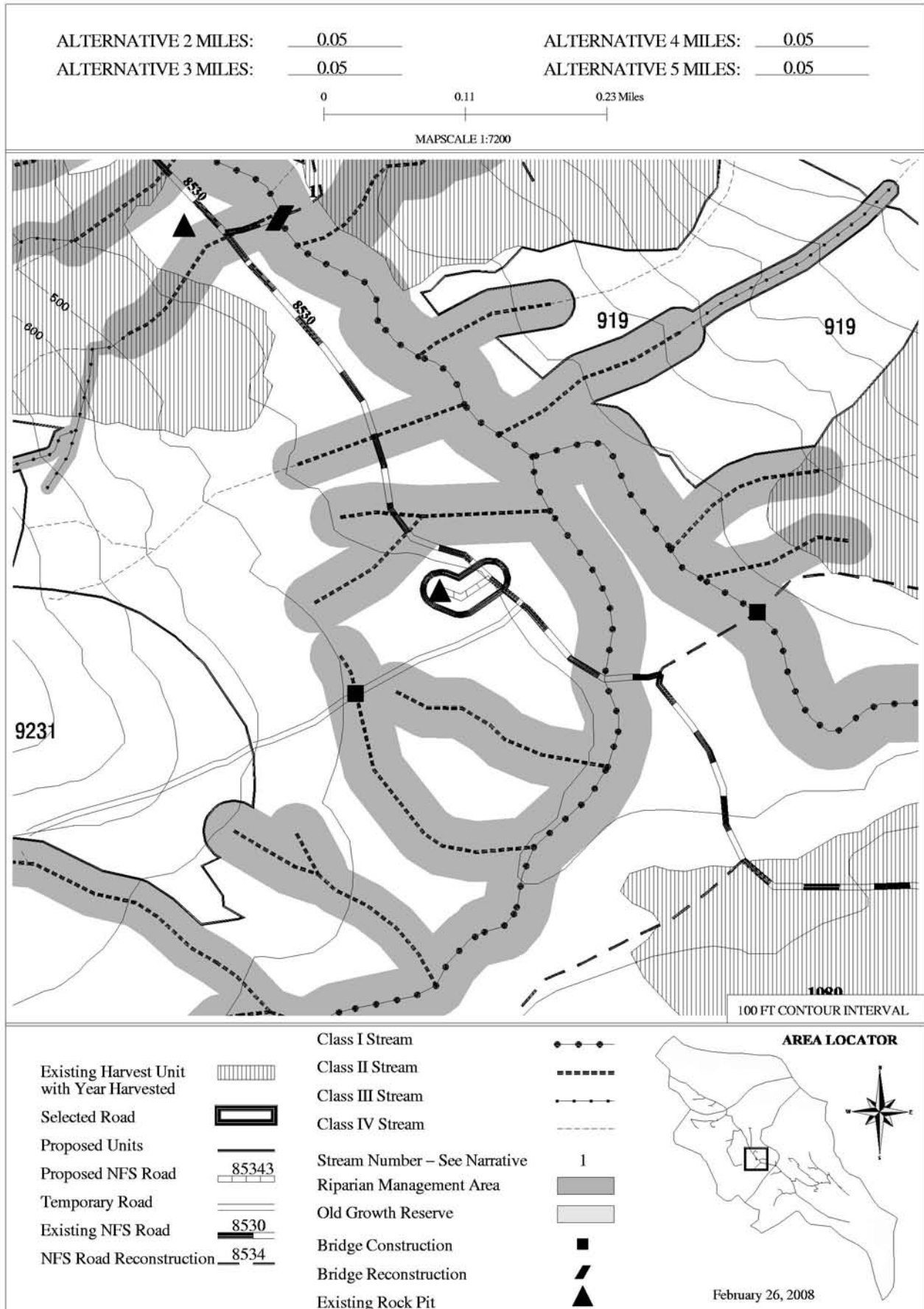
## Road Management Objectives

### Stream Crossings

Road No. 85341L1.858RP

No GIS, RCS or field identified stream crossings.

IYOUKTUG TIMBER SALE ROAD CARD  
ROAD NUMBER 8530R13.614RP



## Road Management Objectives

**Project/EIS:** Iyouktug Timber Sale      **System:** Hoonah - Gypsum      **Land Use Designation:** Timber Production  
**Route No 8530R13.614RP**      **Route Name:**      **Status:** Existing  
**Begin M.P.:** 0.00      **Length (miles):** 0.05      **Begin Termini:** 0.00      **End Termini:** 0.05

**General Design Criteria and Elements**

<b>Functional Class:</b> Local	<b>Service Life:</b> C	<b>Traffic Service Level:</b> D	<b>Surface:</b> Shot Rock	<b>Width:</b> 14'	<b>Critical Vehicle:</b> Rock Truck	<b>Design Vehicle:</b> Rock Truck	<b>Design Speed:</b> 10 mph
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**Intended Purpose/Future Use:** Silvicultural activities: Multiple entries may be needed. Salvage opportunities will be available.

**Maintenance Criteria**

<b>Alternatives</b>	<b>Begin Milepost</b>	<b>End Milepost</b>	<b>Operational Maintenance Level:</b>	<b>Objective Maintenance Level: (desired future condition)</b>
2, 3, 4, 5	0.00	0.05	2	2
1	0.00	0.00	N/A	N/A

**Maintenance Narrative:** Maintenance Level 2, maintain for high-clearance vehicles.

**Operation Criteria**

**Highway Safety Act:** No      **Jurisdiction:** National Forest      **AFRPR Status:** active

**Travel Management Strategies:**

Alternatives: 2, 3, 4, 5  
 Encourage: High-Clearance Vehicles, OHVs, Motorcycles, Bicycles, Hikers  
 Accept: N/A  
 Discourage: N/A  
 Prohibit: N/A  
 Eliminate: Passenger Cars

**Travel Management Narrative:** This road is connected to the Hoonah – Gypsum road system, which is accessed by and connected to the city of Hoonah. It will be used as part of the open transportation system upon completion of the timber sale.

**District Ranger Approval**

(signature) \_\_\_\_\_ Date: \_\_\_\_\_

## Road Management Objectives

### Site-specific Design Criteria

Road No. 8530R13.614RP

**Road Location:** The road corridor begins at mile post 13.614 on Road 8530 and ends at the rock pit. Grades are favorable, averaging 3 to 5%, side slopes are less than 50%.

**Wetlands:** All locations where road crosses designated wetlands will have adequate drainage structures installed. To meet silvicultural exemption the road cannot be widened and no excavated fill may be placed in wetland (33CFR BMPs 1, 5).

**Erosion Control:** An erosion control plan for maintenance will be developed according to standard project specifications (BMP 14.5).

**Rock Pits:** During periods of high rainfall (as defined in current Regional specifications), blasting operations will be suspended at quarries or r/w construction near potential unstable sites where ground vibration may induce mass movement (BMP 14.6)

### **Resource Information:**

**Timber/Logging:** No concerns.

**Soils/Water:** No concerns

**Silviculture:** No concerns.

**Wildlife:** No concerns.

**Botany:** No concerns.

**Lands/Minerals/Geology/Karst:** No concerns.

**Scenery:** No concerns.

**Recreation:** No concerns.

**Heritage:** No concerns.



## **Road Management Objectives**

### **Stream Crossings**

**Road No. 8530R13.614RP**

No GIS, RCS or field identified stream crossings.

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