

DESCRIPTION PURSUANT TO K-C.3.5.5# - DESIGNATION BY PRESCRIPTION (09/2004)

End Result: Long term desired future condition is to obtain habitat characteristics that are found in fully functioning late successional/old growth forest. Desired characteristics include patchy, multilayered canopy with a high degree of crown closure and trees of several age classes.

Treatment by Subdivision

Subdivision	Desired Average Square Feet Basal Area Per Acre	Acceptable Range in Square Feet of Basal Area per Acre
A	160*	40 and 200
B, C	120*	40 and 200

- All trees with a diameter at breast height (DBH) greater than 6.0 inches shall be counted toward the targeted basal area (BA).

Cut only Western Hemlock with a DBH greater than 8.0 inches.

Trees marked above and below stump height with orange paint are not to be cut unless designated by the Forest Service. This includes all boundary trees and center trees of gaps.

Retain dead trees (no needles) where feasible, **operator safety is the top priority.**

Prescription Priorities:

- 1) Desired Average Square Feet of Basal Area per acre by subdivision as identified above. Contractor is to mark leave trees to achieve the Desired Average Square Feet of Basal Area per Acre shown in the table above.
- 2) **Priority Leave Trees:**
 - a) Green trees with a DBH greater than 15.0 inches with clearly visible broken top, forked tops or mistletoe below 100 feet.
 - b) Leave clumps of closely spaced trees with a DBH greater than 14 inches and 3 to 12 feet apart, where they exist.
 - c) Thin from below leaving the larger trees with healthy crowns.

Gap Types:

- 1) Center tree is marked with orange paint above and below stump height and marked with a "G". Gap radius is painted on the center tree and range in size from 45 to 100 feet.
- 2) Larger gaps are marked with blue and pink ribbon with yellow boundary tags facing the center of the gap. Blue boundary tags facing away from the gap center.

Skips:

- 1) Marked with blue and orange ribbon with blue boundary tags facing away from the interior of the skip.
- 2) Contractor will identify with flagging an additional 10 skips of 1/3 acre in size. These skips should be in areas with basal area greater than or equal to 200. DayGlo flagging color will be approved by the Forest Service.

Monitoring:

I. Monitoring by Forest Service:

1) Forest Service Quality Assurance Surveillance Plan

The Forest Service will conduct inspections to determine work quality. Initial inspections will normally consist of 100% visible inspection preferably in conjunction with the contractor or FR and will be based on adherence to the contract technical inspections. If visible inspections shows that the work is inadequate, final inspection will not be done until the deficiency has been corrected by the contractor. It is clearly defined here to be complete responsibility of the contractor to monitor all work and to request final inspection based upon their knowledge that the work has been completed defined in the specifications.

The Forest Service will review the Contractors Quality Control Inspection results and install a series of variable plots to determine final results. The Forest Service may review the contractor's quality control inspection plots or other inspection methods on the ground as part of this inspection. Plots will be located randomly throughout the subdivision that are being worked on at the option of the Forest Service if needed to determine if the work is actually within the contract defined limits. If these plots are found to be acceptable, within a 10% variance in basal area, they may be added to sampling conducted after the remaining portion of the subdivision is marked completely and used to determine acceptance for the subdivision.

2) Re-inspection Upon Contractors Request

If original inspection results are unacceptable to the Contractor and a second inspection is requested without rework, the same inspection procedures will be used following a different plot line and locations.

REMOVAL SCHEDULE PURSUANT TO K-D.4.7#- ABNORMAL DELAY (05/2005)

<u>Included Timber</u>	<u>Time Limits</u>
ALL	180 days after felling is started.
All timber decked during construction clearing	180 days after felling is started.
Timber decked during road construction	180 days after Forest Service authorizes Contractor to use roads pursuant to D.4.7 and F.2.

K-F.1.2# - USE OF ROADS BY CONTRACTOR. (09/2004) Contractor's use of existing roads identified on Contract Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

<u>Code</u>	<u>Use Limitations</u>
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by Contractor to inform the public of use restrictions. Contractor's use of roads coded R, A, or W shall be in accordance with the following restrictions:

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
2923100		0.0	0.8	A, R	Public Use Restricted during all operations Haul restricted until completion of pre-haul maintenance

Title and Date of Governing Road Rules Document:

Olympic National Forest Commercial Road Rules Document

6/1990

An approved bridge overload permit is required for any vehicle which exceeds the gross vehicle weight of 80,000 pounds (established by the Federal bridge formula), if single or tandem axle loads exceed 20,000 or 34,000 pounds respectively, or if the vehicle exceeds the posted load limits of a bridge. Issuance of a USDA Forest Service permit does not authorize the use of the permit vehicle on public highways of the state or other roadways and vice versa.

Plans and/or Criteria Pursuant to K-F.1.0.1#- Temporary Road and Landing Construction (Option 1)
(06/2010)

Landings

- 1) Utilize existing landings unless otherwise agreed to by the Forest Service.
- 2) No landings can be located on or within 50 feet of FSR 2923 (Cooper Ranch Road).

Temporary Roads

Specific Work Activities on closed temporary road as directed by the Forest Service:

- 1) Brushing of both sides of the road
- 2) Removal of down trees and hazard trees
- 3) Spot rock as directed by the Forest Service
- 4) Close road to effectively prevent further vehicular use when Contractor has finished all operational activities
- 5) No more than one half mile of temporary road is allowed within the contract area

K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS. (09/2004) Contractor shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications										
	From	To		T-811	T-835	T-842								
2923100	0.00	0.8	0.8	C	C	C								

C = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications										
	From	To		T-811	T-835	T-839								
2923100	0.0	0.8	0.8	C	C	C								

C = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications										
	From	To		T-811	T-835	T-839								
2923100	0.0	0.8	0.8	C	C	C								

C = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

* For rock haul or details below

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (09/2004)

Column No.	Heading	Entry	Explanation
	Any	Blank	Except as otherwise described, no entry indicates Contractor is not authorized or required to perform the work item(s).
	Any	RC	This work requirement applies only when haul of sale related construction materials occurs.
2	Special Project Specification	Number	Entry indicates Special Project Specification which applies.
3	Travel Way	P- DH- PH- EX Numbers IS, C, OS, F, or AI A or B	Prehaul During haul Post haul Contractor shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work. Contractor shall maintain the traveled way to the standard width indicated by the entry, plus curve widening, in accordance with Section T-811. If required, the road template shall be shaped to this width and to the designated cross slope before haul and during recurring maintenance. Cross slopes are designated as: IS (Inslope), C (Crown), OS (Outslope), F (Flat), AI (As Is). If compaction is required.
4	Brush and Log Out	Brush Left & Right As Staked OPT H	Using mechanical brushing equipment Contractor shall remove brush from the right (R) side and left (L) side of road in accordance with the Brushing Detail. Limits of brushing are as staked or marked in the field. Contractor may use hand or mechanical means of brushing. Only hand brushing may be used.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (09/2004)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading D	Contractor shall place surfacing on roads listed according to the grading indicated in table below. Contractor is to make deposits for listed road maintenance, including surface rock replacement.
6	Wet Weather Haul	WW	Wet Weather Haul Agreement applies to all activities. Additional Erosion control features shall be in place prior to haul between November 1 st and May 31 st . Features include but are not limited to: straw wattles, weed free straw bales, silt fencing, & check dams. Contractor shall place surfacing on roads listed according to the grading indicated.
7	Snow Removal	TS JU Blank	Snowplowing authorized for Contractor's Operations without recreation access being provided per Section T-803 requirements. Snowplowing authorized, but must provide for recreation joint use per Section T-803 requirements. Snowplowing is not authorized. Forest Service may authorize plowing by permit when not in conflict with other uses.
8	Post Haul	C D	C denotes that work is Contractor's Responsibility to perform. D denotes that work is USFS Responsibility to perform.

K-G.9# - STEWARDSHIP PROJECTS (9/04) Performance of stewardship projects shall be in accordance with the following specifications.

Project Number 001: Marking to meet prescription, leave tree marking. See attached requirements and specifications in Appendix A

Project Number 002: Site preparation for under planting of gaps. See attached requirements and specifications in Appendix A

Project Number 003: Purchase of Douglas-fir, Sitka Spruce, and Western Red cedar seedlings. See attached requirements and specifications in Appendix A

Project Number 004: Planting of trees in gaps. See attached requirements and specifications in Appendix A

K-G3.1.5# - PROJECT OPERATION SCHEDULE. (05/2005) Unless otherwise agreed to between Contractor and Forest Service, Contractor's Operations shall be performed in accordance with the following schedule:

Subdivisions	Operation Conditions	Purpose
All	All mechanized operations shall occur only between June 1 and October 31 (inclusive).	Reduction of soil compaction
All	Requests for waiver of a timing restriction as stated in this Project Operation Schedule shall be submitted in writing no later than 30 days prior to the effective date of the restriction. The Forest Service reserves the right to deny all waiver requests. Requests for waivers submitted later than 30 days prior to the effective date of the restriction will not be considered.	Allow Forest Service to process waiver request.
All	Temporary road construction, and obliteration are allowed only between June 1 and October 31, inclusive unless otherwise agreed to by Forest Service.	Reduction of sedimentation.
All	Haul operations that occur between November 1 and May 31 (inclusive) require a Wet Weather Haul agreement between the Contractor and Forest Service. Some requirements may include additional silt fencing, straw wattles, straw mulch, spot rocking, and other forms of sedimentation reduction devices and/or Contractor self suspension of haul.	Reduction of sedimentation and potential impact to fish.

TABLE PURSUANT TO K-G.4.1# - SPECIFIC REQUIREMENTS (05/2005)

<u>FELLING METHODS</u>	<u>SUBDIVISIONS</u>
Directional felling away from timber edge along Cooper Ranch County Road (FSR 2923) when within 66 feet of road edge. Timber designated to be cut shall be felled in a manner to maximize protection of residual trees and facilitate all yarding operations, unless otherwise agreed to in writing by the Forest Service.	All
Hazard trees or snags felled to provide safe operations shall be left in place after felling.	All
<u>FELLING EQUIPMENT</u>	<u>SUBDIVISIONS</u>
As included in your Technical Proposal and accepted by the Forest Service.	All

K-G.4.2# - TABLE PURSUANT TO K-G.4.2# - YARDING/SKIDDING REQUIREMENTS (05/2005)

YARDING/SKIDDING REQUIREMENTS	SUBDIVISIONS
No more than 20% of the subdivision shall be impacted by skidtrails/roads. This includes all existing skidtrails/roads, landings, temporary and system roads.	All
Dedicated ground based skidtrails/roads shall utilize a sufficient layer of slash and unmerchantable material to minimize rutting.	All
Ground based yarding operations will not operate on slopes exceeding 30%, unless otherwise agreed to by the Forest Service.	All
Skidtrails/roads shall minimize disturbance to existing large down logs and felled hazard trees. If such logs are moved, they will be replaced as directed by the Forest Service.	All
Contractor shall provide logging plan maps of all proposed skidtrails/roads and landings locations to meet stated skidding requirements to be approved by the Forest Service.	All
Leading end of logs shall be suspended above ground during yarding and/or loader swing operations.	All
All yarding operations shall result in no more than 15% of the residual trees receiving damage per subdivision. No more than 10% of the residual trees may have damage exceeding 16 square inches. Damage is defined as exposure or breakage of the cambial layer of the bole or root collar.	All
Protect all snags. However, if logging safety is jeopardized, snags may be felled and then left in the stand as coarse woody debris.	All
The locations of all skidtrails/roads will be approved by the Forest Service prior to felling operations.	All

APPLICATION SCHEDULE PURSUANT TO K-G.6.0# - EROSION CONTROL AND SOIL TREATMENT BY CONTRACTOR
(04/2014)

PAYMENT UNIT OR UNIT NUMBER	AREAS A) SKID TRAILS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) OTHER	SEED		FERTILIZER		MULCH	
		APPLICATION		APPLICATION		APPLICATION	
		SPECIES MIXTURE <u>1</u> /	LBS/AC	TYPE <u>2</u> /	LBS/AC	TYPE <u>3</u> /	LBS/AC
All	A, C, D, E	Furnished by the Forest Service	15			Straw or Wood	4,000

The Contractor will be required to pay a co-op deposit of \$0.02/Ton for the cultivation and harvest of replacement seed of native species for use on future contracts.

1/ For sales in Oregon, the seed shall meet the State certification specifications. Seed must be packaged in containers carrying official certification labels sewn in, glued to, or printed upon the container, with the following information:

1. Variety (if certified as to variety) and kind.
2. Quantity of seed (pounds or bushels).
3. Class of certified seed (blue tags for certified seed).
4. Inspection or lot number traceable to the certifying agency's records.

For sales in Washington, the seed shall be labeled as "Prohibited and Restricted Noxious Weed Free for the State of Washington." The Contractor shall furnish a copy of the seed analysis.

For state of California lands in Region 6, seed must be certified by the state of California, or by an independent agency or company that is approved by the state of California for "prohibited and restricted noxious weed free for the state of California."

For mixtures of seed, each ingredient in excess of 5 percent must be listed with its percentage by weight and its germination percentage.

Legumes must be inoculated with nitrogen fixing bacteria before planting. The label must show the expiration date of the inoculant.

All seed treated with a fungicide or pesticide must be labeled that it is "treated" giving the name of the chemical used, and an appropriate warning or a caution statement.

2/ Fertilizer shall be a standard commercial fertilizer with guaranteed analysis of contents clearly marked on containers.

3/ Mulch shall meet the appropriate State's certification specifications, with evidence of its certification traceable to the certifying agency's records.

SPECIFICATIONS PURSUANT TO K-G.7.4.2# - SLASH TREATMENTS REQUIREMENTS
(06/2008)

Slash Plan

I. Definitions:

Slash: Material with a diameter of 1 inch to 5 inches and 3 feet in length or greater remaining in treatment strips. Material greater than 5 inches in diameter does not have to be treated if all limbs have been removed.

II. System road slash

Contractor shall clear all slash created by harvest operations from the surfacing of the FSR 2923 (Cooper Ranch Road) daily. Ditches shall be cleared of all harvest operation slash once a week.

III. Landing slash

All ground-based landing slash shall be removed from landing areas and distributed evenly over skid roads concurrent with skidding operations.

IV. Temporary roads

Slash created by opening existing temporary roads within 50 feet (slope distance) of the timbered edge along FSR 2923 (Cooper Ranch Road) shall be pulled back from road junctions and evenly distributed.

V. Leave tops in subdivisions

Top unmerchantable portion of all included timber shall be bucked and left within subdivisions, unless agreed to by the Forest Service. Ground based equipment will use this material within skid trails/roads and processor paths to reduce ground impacts.

VI. Directional felling

Within 50 feet (slope distance) of the treated edge along the FSR 2923 (Cooper Ranch Road), timber shall be directionally felled away from road.

VII. Limb logs in subdivisions

Logs must be limbed on 3 faces prior to yarding unless agreed to by the Forest Service.