

DESCRIPTION PURSUANT TO K-C.3.5.7# - INDIVIDUAL TREE DESIGNATION (OPTION 1)
(06/2008)

Table 1 - Designation by Prescription (D x P) as shown on Contract Area Map

Subdivision	Species Designated for Cutting	Target Average Leave Trees per acre 1/	Acceptable Range of Leave Trees per acre
80	Douglas-fir	80	65 to 95
80a	Douglas-fir	80	65 to 95
80b	Douglas-fir	100	70 to 130
80c	Douglas-fir	100	70 to 130
83	Douglas-fir	80	65 to 95
83a	Douglas-fir	80	65 to 95
83b	Douglas-fir	80	65 to 95

1/ All trees with a 35.0" or greater stump diameter when measured at 4 inches above ground level on the uphill side of the tree are designated leave trees and are not to be cut, and are to be counted towards the 'Target Average Leave Trees per Acre' listed in Table 1 above.

- A. Designation by prescription, Leave Tree Marking (LTM), as referred to in Project 004 in K-G.9#, is specified below:
 - 1. All trees exceeding the diameter limit in the Required Leave Tree column in Table 1 are designated as leave trees.
 - 2. All species, except Douglas-fir, are designated as leave trees.
 - 3. The following prioritized guidelines will be used for tree selection to attain the desired leave trees per acre.
 - a. The largest diameter and healthiest trees in the stand. These trees shall be of good form and will not have forked tops or visible signs of damage.
 - b. Trees that can be safely removed without damaging infrastructure such as picnic tables and paved trails in subdivisions 80b and 80c.
- B. Tree marking paint application for LTM's:

1. Paint shall be orange in color and supplied by contractor.
 2. The amount of paint on each tree will be sufficient to remain visible after the contract is completed.
 3. Trees shall be marked in such a manner that:
 - a. Paint is visible from 100 feet when viewed from any side of each tree.
 - b. Painted stump marks cannot be rubbed off if scraped during operations and must be present and identifiable after harvest operations in the contract are complete.
 - c. In lieu of marking leave trees in subdivisions 80b and 80c, cut trees will be marked by the contractor with blue paint supplied by the contractor. Before cutting will commence, the Forest Service shall add green tracer paint to stump marks on each tree. Cutting and/or removing blue painted trees that do not test positive for tracer elements will be considered a breach of the contract.
- C. Unit 83v has been Individually Tree Marked (ITM) with blue tracer paint by the Forest Service. Only trees with blue paint above and below stump height are to be removed.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS PURSUANT TO G.3.3 SAFETY

Unless otherwise agreed, the following measures are required to provide adequate warning of hazards for users of roads and trails adjacent to Contractor's Operations.

Part I. Signing and Other Warning Methods:

(a) Signs. The following signs are required when Contractor's Operations are in progress adjacent to or on Forest Service controlled roads and trails:

MINIMUM SIZE AND LEGEND	LETTER	MINIMUM SHAPE	SIZE AND	AND WHEN AND WHERE REQUIRED
1. LOGGING OPERATIONS NEXT ____ MILES (4" letters)		24" (rectangle)	36"	Min. 100 ft. outside of any continuous work areas, on roads listed in K-F.3.1# and trails listed in Part II.
2. LOGGING OPERATIONS (3" letters)		24" (diamond)	24"	To be used in conjunction with "Logging Operations Next ____ Miles" and where work area is not continuous.
3. FOR LOGGING USE ONLY (3" letters)		24" (diamond)	24"	Required where roads listed in K-F.3.1# and temporary roads intersect with K-F.3.1# roads. Install a cross ditch to discourage use when sign is covered or removed for extended periods.
4. TRUCKS (4" letters)		24" (diamond)	24"	At critical intersections on roads listed in K-F.3.1# when traffic is heavy or otherwise exceeds volumes stated in Part II below. Remove or cover when the sign is not applicable.
5. END LOGGING OPERATIONS (4" letters)		24" (rectangle)	36"	Use in conjunction with "Logging Operations Next ____ Miles" and "Logging Operations."
6. TREE FELLING AHEAD (3" letters)		24" (diamond)	24"	Required 200 feet in advance of danger area where timber is being felled adjacent to all roads, including temporary roads, and trails.
7. ROAD MACHINERY AHEAD (3" letters)		24" (diamond)	24"	Required at least 200 feet in advance of Contractor road maintenance operations on roads listed in Schedule K-F.3.1#.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - G.3.3 Safety (continued)

All signs shall meet requirements as specified in Parts I and VI of the Manual of Uniform Traffic Control Devices (MUTCD).

Sign borders and lettering shall be black. Borders are 1/2 inch wide, inset 1/2 inch from outside edge of sign. All sign backgrounds shall be orange, except signs #1 and 5 which shall be reflectorized orange.

Signs shall be installed on posts, with a 5 foot minimum ground clearance, or on temporary supports complying with MUTCD standards.

All signs are to be removed or covered when operations are interrupted for seasonal nonuse or other extended periods.

Contractor shall furnish flag personnel and advance warning signs when cable or helicopter logging above roads or trails, felling adjacent to roads or trails, where logs being bucked may roll into roads or trails, and in areas where fallout from blasting may occur. On roads listed in K-F.3.1# and temporary roads, Contractor may temporarily block the road in lieu of furnishing flag personnel.

(b) Barricades. On roads listed in K-F.3.1#, if Contractor's Operations cause the traveled way or road shoulders to be constricted overnight, or longer, by such obstructions as decked logs, parked equipment, or piled slash, Contractor shall place barricades on both sides of the encroaching obstruction to safely channel traffic around such obstructions. Barricades shall remain in place until the obstruction is removed.

Barricades shall be Type II and meet specifications in MUTCD, Part VI. Barricades must be at least 3 feet high. Rails must be at least 2 feet long. Striping shall be alternating orange and white, sloping at a 45 degree angle, and reflectorized. For rails 2 feet to 3 feet long, striping shall be 4 inches wide. For rails longer than 3 feet, striping shall be 6 inches wide. Two rails, 8-12 inches in width, must face each direction.

Barricades shall be equipped with warning lights which shall be Type A low intensity flashing and shall be maintained so as to be capable of being visible on a clear night from a distance of 3,000 feet.

(c) Other Traffic Control Methods. The posting of CB channel signs may be authorized.

On roads listed in K-F.3.1#, Contractor may be authorized to install temporary gates, barricades (except cables), or natural barriers. The devices must be installed with the necessary hazard markers, be reasonably passable by Forest Service, and be removed prior to acceptance of the subdivision being served by the road.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - G.3.3 SAFETY (continued)

Part II. Specific Requirements:

Signs will be located to notify the public during all logging operations at the Mongold State Park Day Use Area and low water boat ramp.

Contractor and Forest Service agree to the above stated requirements of the Traffic Control Plan:

Name

Name

Title

Title

Date

Date

Subdivision #	Designation by Prescription K-C.3.5.7# Average Leave Trees per Acre
80	80
80a	80
80b	100
80c	100
83	80
83a	80
83b	80
83v	ITM

Comment [m1]: Provision number is to be all on the same line.

REMOVAL SCHEDULE PURSUANT TO K-D.4.7# - ABNORMAL DELAY. (5/2005)

REMOVAL SCHEDULE

<u>Included Timber</u>	<u>Time Limits</u>
All.	60 days after felling is started.
All timber decked during construction clearing.	N/A days after felling on each Specified Road constructed by Contractor is initiated.
Timber decked during road construction.	N/A days after Forest Service authorizes Contractor to use roads pursuant to F.2.

Table pursuant to K-F.2.2.1# Material Sources

Material	Type of Purchase	Owner(s)	Unit of Measure	Unit Price	Estimated Quantity	Total
		N/A				

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT
TO K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

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	EX	Contractor shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work.
		Numbers	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.
		IS, C, OS, F, or AI	Cross slopes are designated as: IS (Inslope), C (Crown), OS (Outslope), F (Flat), AI (As Is).
		A or B	If compaction is required.
4	Brush and Log Out	Numeric & R and or L	Contractor shall remove brush for specified width on either or both the right (R) side or left (L) side of road.
		As Staked	Limits of brushing are as staked or marked in the field.
		OPT	Contractor may use hand or mechanical means of brushing.
		H	Only hand brushing may be used.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT
TO K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Contractor shall place surfacing on roads listed according to the grading indicated.
		D	
6	Dust Abatement	OPT	Product selection is Contractor's choice from those listed in Section T-812.
		Product Abbr.	Unless otherwise agreed, Contractor is restricted to product listed corresponding to the abbreviation shown in Section T-812; (i.e., LigS = Lignon Sulfonate) Application rates are estimated amounts.
		EX	Contractor shall abate dust on the existing width
		Numbers	Contractor shall abate dust to the width indicated by entry.
7	Seasonal Maintenance	W	Waterbars and/or crossditching shall be required prior to expected seasonal precipitation.
		B	Entrance barriers shall be installed by Contractor prior to nonuse periods.
8	Snow Removal	TS	Snowplowing authorized for Contractor's Operations without recreation access being provided per Section T-803 requirements.
		JU	Snowplowing authorized, but must provide for recreation joint use per Section T-803 requirements.
		Blank	Snowplowing is not authorized. Forest Service may authorize plowing by permit when not in conflict with other uses.
9	Post Haul	P	P denotes that work is Contractor's Responsibility to perform.

PLANS AND CRITERIA PURSUANT TO K-F.1.0.1# (OPTION 1) -
TEMPORARY ROAD AND LANDING CONSTRUCTION (07/2001)

1. Rock use for landings, surface rock replacement or spot rocking of temporary roads will come from a weed free rock source.
2. Logging roads will be agreed to by the Forest Service prior to use or construction.
3. All temporary roads will be bermed, water barred, scarified and seeded with native seeds following operations, unless otherwise agreed in writing.

TABLE PURSUANT TO K-F.1.2# - USE OF ROADS BY Contractor (06/1999)

Restricted Road List Table

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
N/A					

1. The normal season of use for all roads is May 15th to October 15th.
2. Limit operations to dry conditions. Operations may be permitted during dry weather outside Operating Period. Operations will be suspended when indicators such as puddles in the road and/or water running in the ditchlines.

Title and Date of Governing Road Rules Document:

Road Rules 99
Commercial Road Rules

1999
Effective Date

Contract Name: Mongold Stewardship

TABLE PURSUANT TO K-F.3.1## - ROAD MAINTENANCE REQUIREMENTS (07/2001)

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		T803	T811	T813	T831	T832	T834	T835	T838	T842	T854	T891	T892	
2200123	0.00	0.07	0.07	P							P	P	P			
2200120	0.00	0.68	0.68	P	P	P					P	P	P	P		
2200113	0.00	0.26	0.26	P	P						P	P	P	P		
2200100	0.00	0.27	0.27	P											D	

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party, FS = Forest Service

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications												
	From	To		T803	T811	T813	T831	T832	T834	T835	T838	T842	T854	T891	T892	
2200123	0.00	0.07	0.07	P							P	P	P			
2200120	0.00	0.68	0.68	P	P	P					P	P	P	P		
2200113	0.00	0.26	0.26	P	P						P	P	P	P		
2200100	0.00	0.27	0.27	P											D	

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party, FS = Forest Service

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications												
	From	To		T803	T811	T813	T831	T832	T834	T835	T838	T842	T854	T891	T892	
2200123	0.00	0.07	0.07								P					
2200120	0.00	0.68	0.68		P						P			P		
2200113	0.00	0.26	0.26		P						P			P		
2200100	0.00	0.27	0.27													

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party, FS = Forest Service

Description of work required by the above listed T-specs is shown in the following ROAD MAINTENANCE REQUIREMENTS SPECIFICATION table, and included in the timber sale contract. Some T-specs listed are applicable by reference.

WO-C5.32#

K-F.3.2# – ROAD MAINTENANCE DEPOSIT SCHEDULE. (7/01) Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Purchaser's performance of road maintenance, Purchaser shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Purchaser's commensurate use of each road listed in the Road Maintenance Plan in C5.31#.

Purchaser and Forest Service may agree in writing on adjustment of such rates. If Purchaser uses roads under jurisdiction of Forest Service other than those listed in the Road Maintenance Plan, Forest Service shall establish rates commensurate with Purchaser's use of such roads.

The Required Deposits for Forest Service work in lieu of Purchaser performance and for deferred maintenance is: \$ 0.04 per CCF.

The following table lists who Purchaser will make deposits for road maintenance to, and the rate per unit of measure of the deposit. The Road Maintenance Agreement is available for inspection at the Forest Supervisor's office.

Deposit Made To	Rate	Unit of Measure
NA		

TABLE PURSUANT TO K-G.2.2# - PROTECTION OF IMPROVEMENTS (05/2008)

<u>Type of Improvement</u>	<u>Move or Relocate to</u>
Picnic Tables	Existing Conditions
Paved Trails/Walkways	Existing Condition
Drinking Fountains	Existing Condition
Restroom Facilities	Existing Condition
Waterlines	Existing Condition
Powerlines	Existing Condition
Fire Pits	Existing Condition
Parking Areas	Existing Condition
Curbs	Existing Condition

SCHEDULE PURSUANT TO K-G.3.1.5# - PROJECT OPERATION SCHEDULE (05/2005)

<u>Subdivision</u>	<u>Operation Conditions</u>	<u>Purpose</u>
All/If groundbased operations are used	Operations should be managed for soil productivity, water quality, and riparian condition, and to protect roads and facilities	To minize damage to soil resources and residual trees
All/If spur roads are used	Operations should be managed for soil productivity, water quality, and riparian condition, and to protect roads and facilities	Water quality protection
All	Operations will not begin before October 15 th and shall be completed by April 15 th	Protect recreation users at Mongold Day Use Area

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

FELLING METHODS

SUBDIVISIONS

1. Snags fell for safety will be left in place.	All
2. Locations for all skyline corridors and ground skidding roads will be approved by Forest Service prior to beginning felling operations.	All
3. Directionally fell away from streams and subdivision boundaries.	All
4. Directionally fell away from powerlines.	All

FELLING EQUIPMENT

SUBDIVISIONS

1. Any method that will meet all end results and requirements and is approved by the Forest Service.	All
3. If processor felling is in your Technical Proposal and accepted by the Forest Service, processor roads will be spaced at least 40 feet apart and processor will travel on slash.	All

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

YARDING/SKIDDING REQUIREMENTS

SUBDIVISIONS

During inhaul, the lead end of logs shall be suspended above the ground.

Ground based equipment shall not operate on slopes greater than 30 percent.

All ground based equipment is to stay on designated skid road, trails, and corridors.

As available, all ground based equipment shall travel on slash.

Skid roads and trails shall not wider than 15 feet and no closer than 120 feet apart.

If included in your proposal and accepted by the Forest Service, ground-lead yarding is permitted within 100 feet of subdivision boundaries and 100 feet of the tower position, and where necessary when crossing an intermediate support

All

A slackpulling carriage must be capable of maintaining a fixed position on the skyline during lateral yarding

The haulback line is to remain within the skyline corridor.

Skyline corridors shall be as narrow as practical.

Skyline corridors will be spaced no closer together than 100 feet center to center at a point half-way to the end of the road when radial roads are used, and 150 feet center to center where parallel roads are used.

APPLICATION SCHEDULE PURSUANT TO K-G.6.0# - EROSION CONTROL AND SOIL TREATMENT BY Contractor(7/01)

SUB-DIVISION	AREAS	GRASS		MULCH	
	A) SKID AND FORWARDER ROADS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) OTHER	APPLICATION		APPLICATION	
		SPECIES <u>1/</u> MIXTURE	LBS/AC	TYPE <u>3/</u>	LBS/AC
All	A, C, D	Blue Wild Rye	20		

1/ The seed shall meet the appropriate State (Oregon or Washington) 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, purple tags for registered seed, or white tags for foundation seed).
4. Inspection or lot number traceable to the certifying agency's records.

For mixtures of certified 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.

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

(Option 2) (06/2008)

CONSTRUCTION SLASH. Unless otherwise agreed, all slash as defined in K-G.7 - Slash Disposal, shall be treated.

SPECIFIC DISPOSAL METHOD. Contractor shall pile or remove all construction slash. All logs shall be limbed. Logs and stumps shall be placed away from trees, positioned so they will not roll, and not be placed on top of one another. Piling of construction slash shall be in accordance with Machine Pile Landings Method of Treatment and Location of Piles below.

In no event will Construction Slash be buried under Temporary Road or landing embankments.

MACHINE PILE LANDINGS

1. AREA SUBJECT TO THIS PROVISION. All landings and the area within 20 feet of the perimeter of these landings shall be machine piled.

2. METHOD OF TREATMENT. Unless otherwise agreed, all slash as defined in K-G.7 - Slash Disposal shall be treated as per Method a or Method b below.
Method a: All slash other than those specified pieces described in Method b below shall be placed in a compact, dirt free, uniform pile for later disposal by the Forest Service. The pieces shall be placed so that shifting or rolling will not occur and so that no material will extend over the edge of disposal areas. Piles shall be no higher than 15 feet.

Method b: All pieces meeting green biomass convertible specifications and longer than 10 feet shall be placed in a separate pile(s). The pieces in the pile shall be placed parallel to each other similar to log decks, and placed where shifting and rolling will not occur. Unless otherwise agreed, these piles shall be no higher than 6 feet.

SPECIFICATIONS PURSUANT TO K-G.7.4.2# - SLASH TREATMENTS REQUIREMENTS

(Option 2) (06/2008)

3. LOCATION OF PILES.

- a. Piles as defined in Method a above, shall be located in the center of openings near or on the landings and as far as possible away from residual trees. Unless otherwise agreed, the base of the piles shall be no closer than 10 feet from standing trees. Excess slash which cannot be piled as per these specifications, will be required to be hauled to a disposal site as designated by the Forest Service.
- b. Piles as defined in Method b above, shall be located in agreed upon openings near the landing area adjacent to the road system and be located at least 10 feet away from the pile as defined in a Location of Piles "a" above. These piles can be placed adjacent to standing trees.

4. TIMING OF PILES. Piling of slash shall be done concurrent with yarding on each landing, or within 10 days of completion of yarding on each landing.

5. COVERING PILES. During the construction of each pile, a 100 sq ft (10'x10') piece of 4 ml polyethylene plastic shall be placed on top of the pile when the pile is 2/3 of the way built. The remaining 1/3 of the slash shall be placed on top of the plastic. Kraft-waterproof paper or other similar product may be substituted for the 4 ml plastic.

Stewardship Projects Pursuant to K-G.9#- Stewardship Projects (09/2004)

Project 001: **Low Stumping** - see attached project description and specifications.

Project 002: **Overhead Hazard Removal** - see attached project description and specifications.

Project 003: **Brush Disposal**- see attached project description.

Project 004: **Contractor Painting of Leave and Designated Trees** - see attached project description