

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 LETTER MINIMUM SIZE AND	LETTER AND LEGEND	MINIMUM SHAPE	SIZE 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:

There are no additional requirements.

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

Name

Name

Title

Title

Date

Date

TABLE I PRESCRIPTION PURSUANT TO K-C.3.5.5# - DESIGNATION BY PRESCRIPTION.
(9/2004)

Table I - Prescription

Subdivision Number	Designated Cut Tree Species	Average Leave Trees per Acre	Average Spacing Between Leave Trees (Feet)	Acceptable Range in Spacing Between Trees (Feet)
2,6	Douglas-fir	50 TPA	29	15 - 43 Feet
10	Douglas-fir	55 TPA	28	14 - 42 Feet
1,3,8,9	Douglas-fir	60 TPA	27	14 - 40 Feet
5	Douglas-fir	65 TPA	26	13 - 39 Feet
12	Douglas-fir	70 TPA	25	13 - 37 Feet
4,11,13	Douglas-fir	75 TPA	24	12 - 36 Feet

To assist in the implementation of the silvicultural prescriptions, use the average spacing figures as a "general" guideline in achieving the average number of desired leave trees per acre. Actual leave tree spacing will vary by as much as $\pm 50\%$ as shown in column 5 above to best achieve the specific prescription criteria explained below.

**See Prescription Criteria #7 and #8 below for Big Leaf maple release and gap creation.*

Prescription Criteria:

1. Leave the largest and most vigorous live trees wherever possible. Accomplish this by varying the leave tree spacing by as much as 50%. Clumping of the larger codominant trees is desirable, but be sure to widen the spacing elsewhere to ensure that the average number of leave trees per acre is maintained.
2. Include, as leave trees, up to 5 trees/acre that have multiple tops and/or larger than normal branches. These leave trees shall be recruited from the largest trees whenever possible.
3. To facilitate harvest operations, all tree species are designated cut trees within the width of approved skyline corridors and skid roads.
4. Outside of approved skyline corridors and skid trails, all western hemlock and western red cedar trees shall be left and will be counted as leave trees if their diameters at breast height are 12 inches or greater.
5. Outside of approved skyline corridors and skid trails, all hardwoods, Sitka spruce, and dead trees shall be retained but not counted to achieve the desired average leave trees shown in Table I.
6. Whenever trees are cut with visible infection stain from *Phellinus weirii* during the harvest felling operations or the course woody debris felling operation, those stumps will be marked as per K-G.4.1.7, Treatment of Stumps, in the Contract.
7. All Big Leaf maples are required to be left standing unless otherwise agreed and needing to be cut for operational reasons. An average of two (2) of the largest and most vigorous growing Big Leaf maple trees per acre exceeding 6.0 inches DBH shall have all designated tree species shown in Table I cut within 30 feet horizontal distance. Big Leaf maples released in this manner shall occur at random over the entire cutting area where the Big Leaf maple is found. Avoid overlapping the Big Leaf maple release

TABLE I PRESCRIPTION PURSUANT TO
K-C.3.5.5# - DESIGNATION BY PRESCRIPTION (9/2004)

areas. If there are large areas of the individual subdivisions where Big Leaf maple trees exceeding 6.0 DBH cannot be found, the number of required released Big Leaf maples will be reduced, or additional Big Leaf maples will be released in other areas of the subdivisions, as agreed. Big Leaf maples located within 30 feet of the boundary are not to be released. Count only the released Big Leaf maple tree within the release area towards the desired leave trees per acre as specified in Table I.

8. All designated cut tree species shown in Table 1 above shall be cut within the specified distance of any orange marked leave tree. The specified distance for subdivisions **2, 4, 5, 9, 10, 11, 12, and 13** is **83 feet** to create **half** acre "gaps". The leave trees are marked with an orange paint band at diameter breast height and stump mark on the downhill side of the tree.

9. Unit 3 has a two acre gap designated by 'clear cut' boundary tags slashed in orange paint and stump marked on downhill side of tree. All designated cut species specified in Table I will be cut that are within the clear cut boundary tags. See the **Contract Area Map** for the location of the gaps.

The contractor is responsible to meet the above Table 1 - Prescription and Prescription Criteria. The leave tree and cut tree selection process will be closely monitored by the Contract administrator. This monitoring will take place during the felling operation.

Monitoring Details:

The contractor is responsible for complying with the Prescription Criteria described above and shall conduct monitoring to ensure that cutting is done to meet the average trees per acre. A minimum of one, 1/10th acre (37.2 feet radius) plot will be taken on every acre harvested. Table 2 provides the average desired leave trees per 1/10th acre plot.

Table 2

Average Leave Trees per Acre	Average Leave Trees per 1/10 th Acre Plot
50	5.0
55	5.5
60	6.0
65	6.5
70	7.0
75	7.5

Areas of felled and bucked timber will be checked and approved by the Forest Service before yarding by the Contractor on that portion begins. In the event that the Forest Service inspection indicates that the number of counted leave trees falls outside of the acceptable trees per acre, the Forest Service will either designate additional trees to be felled, designate standing trees to be left, or identify felled trees to be left to make the correction.

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.	60 days after felling on each Specified Road constructed by Contractor is initiated.
Timber decked during road construction.	60 days after Forest Service authorizes Contractor to use roads pursuant to F.2.

PLANS AND/OR CRITERIA PURSUANT TO K-F.1.0.1# - TEMPORARY ROAD AND LANDING
CONSTRUCTION (OPTION 1) (06/2008)

No plans or criteria are included. Contractor is required to supply plans and/or criteria to the Forest Service prior to beginning construction work.

*Forest Service sources are not available. Approximately 790 cubic yards of rock will be needed. All rock shall be from commercial sources. All materials incorporated into work from Contractor provided sources will be "weed free". The Contracting Officer may request written confirmation of methods utilized to insure weed-free status

TABLE A PURSUANT TO K-F.1.2# - USE OF ROADS BY CONTRACTOR. (9/2004)

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
All Roads listed in K-F.3.1# and all Temporary Roads.				R	Road use for vehicles over 26,000 pounds GVWR shall be suspended when rainfall exceeds 1.0 inch in 24 hours. This suspension shall be for 24 hours after the 1.0 inch rain event. Contractor shall monitor rainfall accumulation from a Remote Automated Weather Station (RAWS) location to be agreed upon at the Pre-work Meeting.

Title and Date of Governing Road Rules Document:

Siuslaw National Forest Road Rule

(Commercial Road Rules)

January 1998

(Effective Date)

TABLE PURSUANT TO K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS. (9/2004)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications												
	From	To		T-811	T-812	T-813	T-831	T-832	T-834	T-836	T-838	T-839	T-842	T-851	T-854	T-891
3412 Seg. 1	Hwy 34	MP 2.5	2.5			D	P	P	P	P			P	P	P	
3412 Seg. 2	MP 2.5	3415	0.8	P		P	P	P	P	P			P	P	P	
3310	3412	3310120	0.9	P		P	P	P	P		P		P	P	P	
3310120	3310	Unit 13	0.15	P		P	P	P	P			P	P	P	P	
3415	Hwy 34	3412	3.9	P	P	P	P	P	P		P		P	P	P	P
3415117	3415	Unit 3	0.23	P		P	P	P	P		P		P	P	P	

P = 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-812	T-813	T-831	T-832	T-834	T-836	T-838	T-839	T-842	T-851	T-854	T-891
3412 Seg. 1	Hwy 34	MP 2.5	2.5			D	P	P	P	P			P	P	P	
3412 Seg. 2	MP 2.5	3415	0.8	P		P	P	P	P	P			P	P	P	
3310	3412	3310120	0.9	P		P	P	P	P		P		P	P	P	
3310120	3310	Unit 13	0.15	P		P	P	P	P			P	P	P	P	
3415	Hwy 34	3412	3.9	P	P	P	P	P	P		P		P	P	P	P
3415117	3415	Unit 3	0.23	P		P	P	P	P		P		P	P	P	

P = 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-812	T-813	T-831	T-832	T-834	T-836	T-838	T-839	T-842	T-851	T-854	T-891
3412 Seg. 1	Hwy 34	MP 2.5	2.5			D	P	P	P	P			P	P	P	
3412 Seg. 2	MP 2.5	3415	0.8	P		P	P	P	P	P			P	P	P	
3310	3412	3310120	0.9	P		P	P	P	P		P		P	P	P	
3310120	3310	Unit 13	0.15	P		P	P	P	P			P	P	P	P	
3415	Hwy 34	3412	3.9	P		P	P	P	P		P		P	P	P	
3415117	3415	Unit 3	0.23	P		P	P	P	P		P		P	P	P	

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

Description of work required by the above listed T-specs is shown in the following ROAD MAINTENANCE REQUIREMENTS SPECIFICATION table, and included in the Contract.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE PURSUANT TO
K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/2004)

1 Road No. and Termini	2 Special Project Specifi- cation	3 Travel Way			4 Brush And Log Out	5 1/ Surfacing	6 Dust Abatement			7 Seasonal Mainte- nance	8 Snow Removal	9 Post Haul	
		Width	X Slope	Comp			Product	Applic Rate	Width			Block	Treat
3412 Seg. 1 Hwy 34 to M.P. 2.5	T815-F1	EX			2ft R&L								
3412 Seg. 2 MP 2.5 to Jct 3415 Rd		EX	AI	A	2ft R&L	80 CY Grading A							
3310* 3412 to 3310120 Rd	T-835-F12-2	EX	AI	A	2ft R&L	80 CY Grading A				W			P
3310120 3310 to Jct temp rd into Unit 13	T-835-F12-1	EX	AI	A	2ft R&L	10 CY Grading A				W,B		P	P
3415 *** Hwy 34 to Jct 3412	T-835-F12-2	EX	AI	A	2ft R&L	390 CY Grading A	H ₂ O		EX	W			P
3415117	T-835-F12-2	EX	AI	A	2ft R&L	30 CY Grading A				W			P
Water bars**						160 Cy Grading Q							

* Gate installation at jct of 3310 and 3412 planned under separate contract; gate may be in place during log haul. If gate is in place, post contract treatment includes locking gate.

** Waterbar rock is included to patch over bladed out existing water bars

*** Watering for dust abatement is approx 400 feet from beginning at Hwy 34 ending at Alsea River bridge at MP 0.07; seasonal, as needed.

1/ All materials incorporated into work from Contractor provided sources will be "weed free". The Contracting Officer may request written confirmation of methods utilized to insure weed-free status.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/2004)

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 Contract related construction materials occurs.
2	Special Project Specification	Number	Entry indicates Special Project Specification which applies.
3	Travel Way	EX Numbers IS, C, OS, F, or AI A or B	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	Numeric & R and or L As Staked OPT H	Contractor shall remove brush for specified width on either or both the right (R) side or left (L) side of road. 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.
5	Surfacing	Aggregate Grading D	Contractor shall place surfacing on roads listed according to the grading indicated. Contractor is to make deposits for listed road maintenance, including surface rock replacement.
6	Dust Abatement	OPT Product Abbr. EX Numbers	Product selection is Contractor's choice from those listed in Section T-812. 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. Contractor shall abate dust on the existing width Contractor shall abate dust to the width indicated by entry.
7	Seasonal Maintenance	W B	Waterbars and/or crossditching shall be required prior to expected seasonal precipitation. Entrance barriers shall be installed by Contractor prior to nonuse periods.
8	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.
9	Post Haul	P	P denotes that work is Contractor's Responsibility to perform.

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

Subdivision	Operating Conditions	Purpose
R/W	<u>All ditch clean-out or brushing with ground disturbing equipment, such as an excavator, shall be restricted to July 1 through October 15.</u>	<u>2/</u>
All	Installing and removing in-stream culverts shall be restricted to July 1 through August 31.	<u>2/</u>
All	<u>All road brushing on system roads not subject to T-836, T-838, or T-839 in K-F.3.1# shall be restricted to June 1 through September 15.</u>	<u>3/</u>
All	<u>Road Construction/Reconstruction (including Temporary Roads) and landing construction shall be restricted to July 1 through October 15.</u>	<u>2/</u>
All	<u>Ground based felling, yarding and machine piling is restricted to June 15 through October 15.</u>	<u>2/</u>
1	<u>Hourly Restrictions: All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.*</u> <u>Felling, yarding and machine piling: no restrictions.</u> <u>Haul-Move-in/out: no restrictions.</u>	<u>1/</u>
2	<u>Haul-Move-in/out: no restrictions.</u> <u>Felling, yarding and machine piling: no restrictions.</u> <u>Haul-Move-in/out: no restrictions.</u>	
3	<u>Hourly Restrictions: All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.*</u> <u>Felling and yarding and machine piling shall be restricted to August6 through March 31.*</u> <u>Haul-Move-in/out: no restrictions on system roads and temporary road to landings F and G; restricted to June 15 to October 15 all other temporary roads.</u>	<u>1/</u> <u>1/</u> <u>2/</u>
4	<u>Hourly Restrictions: All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.*</u> <u>Felling and yarding and machine piling shall be restricted to August6 through March 31.</u> <u>Haul-Move-in/out: no restrictions.</u>	<u>1/</u> <u>1/</u>
5	<u>Haul-Move-in/out: no restrictions.</u> <u>Felling, yarding and machine piling: no restrictions.</u> <u>Haul-Move-in/out: no restrictions.</u>	
6	<u>Hourly Restrictions: All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.*</u> <u>Felling and yarding and machine piling shall be restricted to August6 through March 31.</u> <u>Haul-Move-in/out: no restrictions on system roads and temporary road to landing A; restricted to June 15 to October 15 all other temporary roads.</u>	<u>1/</u> <u>1/</u> <u>2/</u>

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

Subdivision	Operating Conditions	Purpose
8	<u>Hourly Restrictions:</u> All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.* <u>Felling, yarding and machine piling:</u> no restrictions. <u>Haul-Move-in/out:</u> no restrictions.	<u>1/</u>
9	<u>Hourly Restrictions:</u> All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.* <u>Felling and yarding and machine piling</u> shall be restricted to August6 through March 31. <u>Haul-Move-in/out:</u> restricted to June 15 to October 15 on native surface roads.	<u>1/</u> <u>1/</u> <u>2/</u>
10	<u>Hourly Restrictions:</u> All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.* <u>Felling, yarding and machine piling:</u> no restrictions. <u>Haul-Move-in/out:</u> no restrictions on system roads and temporary road to landing Q; restricted to June 15 to October 15 all other temporary roads.	<u>1/</u> <u>2/</u>
11	<u>Hourly Restrictions:</u> All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.* <u>Felling and yarding and machine piling</u> shall be restricted to August6 through March 31. <u>Haul-Move-in/out:</u> no restrictions on system roads except to landing F; all temporary roads restricted to June 15 to October 15.	<u>1/</u> <u>1/</u> <u>2/</u>
12	<u>Hourly Restrictions:</u> All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.* <u>Felling, yarding and machine piling:</u> no restrictions. <u>Haul-Move-in/out:</u> no restrictions.	<u>1/</u>
13	<u>Hourly Restrictions:</u> All operations, except haul, shall be restricted between April 15 and September 15 to two hours after sunrise to two hours before sunset.* <u>Felling, yarding and machine piling:</u> no restrictions. <u>Haul-Move-in/out:</u> restricted to June 15 to October 15 on native surface roads.	<u>1/</u> <u>2/</u>

- 1/ To minimize disturbance to Marbled Murrelets or Spotted owls during the nesting season that are within 100 yards of mature or old growth forest* and involve use of heavy equipment or power-tools (such as chainsaws)
- 2/ To minimize streamcourse sedimentation due to wet weather operations.
- 3/ To maximize the effectiveness of brushing along the haul route.

* See attached map for subdivisions or portions of subdivisions that fall approximately within the 100 yards of mature or old growth forest (restricted areas).

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

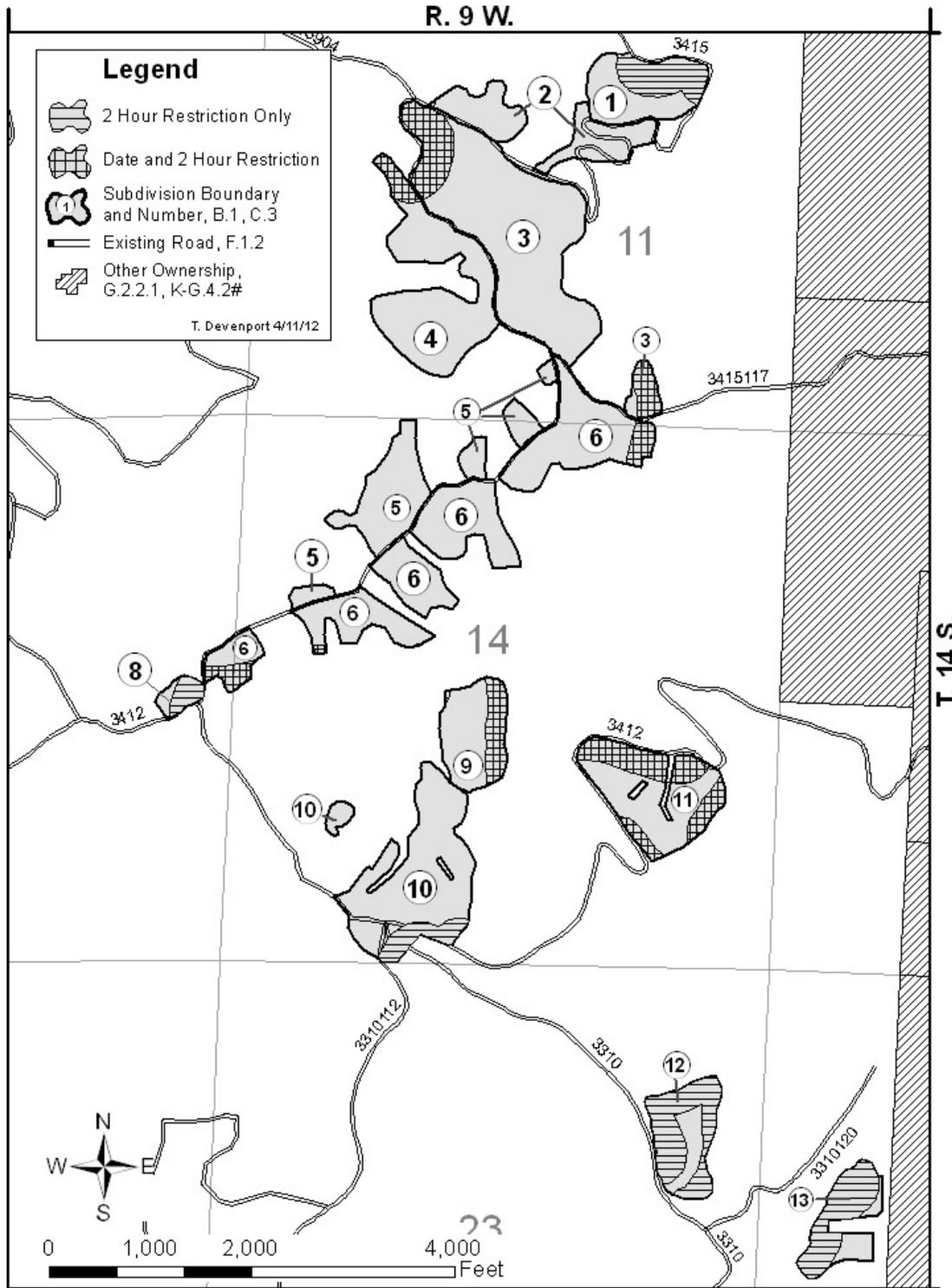


TABLE PURSUANT TO K-G.4.1# - SPECIFIC REQUIREMENTS (05/2005)FELLING METHODS

Trees shall be felled away from paved roads, private property, Streamcourses, buffers, and leave areas, and to the lead of cable corridors and ground-based skid roads. Any tree that falls in a Streamcourse or a buffer shall be left in place unless otherwise approved by the Forest Service for removal.

SUBDIVISIONS

All

FELLING EQUIPMENT

Mechanical felling machinery may be used on portions of subdivisions where ground based yarding is part of your Technical proposal and accepted by the Forest Service, or otherwise use chainsaw and wedges.

SUBDIVISIONS

All

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

YARDING/SKIDDING REQUIREMENTS	SUBDIVISIONS
<p>If included in your Technical Proposal and accepted by the Forest Service, a skyline system must be capable of:</p> <ul style="list-style-type: none"> • keeping one end of the log suspended during inhaul • lateral yarding up to 100 feet • downhill yarding • operating in a multispans configuration • keeping the entire length of logs fully suspended above the ground 50 feet each side of the streamcourse during inhaul when yarding across streamcourses <p>Skyline corridors/cableways:</p> <ul style="list-style-type: none"> • location shall be approved in advance of felling operations • maximum width of 12 feet • minimum spacing of 120 feet at the far end 	<p>All</p>
<p>If contractor chooses to tailhold on private land or land under other ownership, prior to the start of operation in those subdivisions contractor will have to get written permission from the landowner and provide the Forest Service with a copy of the written permission.</p>	<p>All</p>
<p>If included in your Technical Proposal and accepted by the Forest Service, a ground-base machine must be capable of keeping one end of the log suspended during skidding.</p> <p>Skid trails:</p> <ul style="list-style-type: none"> • location of skid trails shall be agreed upon prior to construction and prior to felling • maximum width of 15 feet • average trail spacing of 100 feet <p>The ground-base machine will not be allowed on slopes greater than 30 percent. Where practical, machine shall travel on slash.</p>	<p>All</p>
<p>Prior to yarding, Forest Service shall approve Included Timber pursuant to K-C.3.5.5#.</p>	<p>All</p>
<p>The tops shall be severed or broken off from at least 20 percent of the felled trees prior to yarding. These severed or broken tops shall be left on site (not yarded or removed) scattered over 80 percent of the cutting unit. A top is defined as that portion of the tree 6 inches DIB or smaller on the large end.</p>	<p>All</p>

APPLICATION SCHEDULE PURSUANT TO K-G.6.0# - EROSION CONTROL AND SOIL
TREATMENT BY CONTRACTOR (05/2005)

SUBDIVISION OR UNIT NUMBER	AREAS A) SKID TRAILS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) OTHER	SEED		FERTILIZER		MULCH	
		APPLICATION		APPLICATION		APPLICATION	
		SPECIES MIXTURE	LBS/AC	TYPE	LBS/AC	TYPE	LBS/AC
All	A, C, D	<u>1</u> /	22	None		None	

1/ Blue Wild Rye grass seed will be provided by the Forest Service. A co-op deposit of \$0.04/Ton will be collected from the Contractor to cover the cost of culturing, growing, and harvesting seed for use in future contracts.

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 scatter all construction slash. Scattering of construction slash shall be outside the Temporary Road clearing limits without damaging trees. 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, Method b, or Method c 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.
 - Method c:** All slash other than that described above in Method b shall be scattered across landings, temporary roads, skid trails, skyline corridors, or other openings in the immediate area, as designated by Forest Service Contract Inspector. Scattering shall be accomplished in a manner to avoid windrows or piling and shall not exceed a depth of 1 foot from natural forest floor or road/landing surface.
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.

SPECIFICATIONS PURSUANT TO K-G.7.4.2# - SLASH TREATMENTS REQUIREMENTS
(Option 2) (06/2008)

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.

SCATTER SLASH ALONG ROADS

1. SLASH SPECIFICATION. Unless otherwise agreed, all logging slash more than 2 feet long and less than 3 inches in diameter on the large end shall be scattered. Larger material which has a portion larger than 3 inches in diameter, must be limbed, and bucked at 3 inches in diameter, with the resulting slash meeting the above specification requiring scattering.
2. METHOD OF TREATMENT. Unless otherwise agreed, slash meeting the above slash specification shall be hand or machine scattered or incorporated into the landing piles. Any machine used for scattering shall remain on the running surface of the road at all times. Slash shall not be windrowed or piled (unless added to the landing pile). The scattered slash shall be no more than one-foot in depth, measured from mineral soil.
3. TIMING OF PILES. Scattering of slash shall be done concurrent with yarding in the unit, or within 10 days of completion of yarding.

STEWARDSHIP PROJECTS PURSUANT TO K-G.9# - STEWARDSHIP PROJECTS (09/2004)

- Project #1: **Small Tree-Topping** - see attached project description and specifications.
- Project #2: **Down Wood Creation** - see attached project description and specifications.
- Project #3: **Mature Tree Topping** - see attached project description and specifications.
- Project #4: **Scalp, Gap Plant, and Tree Protection, Upland Areas** - see attached project description and specifications.
- Project #5: **Scalp, Underplant, and Tree Protection, Upland Areas** - see attached project description and specifications.