

TRAFFIC CONTROL PLAN AND SPECIFICATIONS PURSUANT TO B6.33 SAFETY

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

Part I. Signing and Other Warning Methods:

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

<u>MINIMUM LETTER SIZE AND LEGEND</u>	<u>MINIMUM SIZE AND SHAPE</u>	<u>WHEN AND WHERE REQUIRED</u>
1. LOGGING OPERATIONS NEXT <> MILES (4" letters)	24" (rectangle) 36"	Min. 100 ft. outside of any continuous work areas, on roads listed in C5.31# 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 C5.31# and temporary roads intersect with C5.31# 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 C5.31# 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 Purchaser road maintenance operations on roads listed in Schedule C5.31#.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS – B6.33 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.

Purchaser 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 C5.31# and temporary roads, Purchaser may temporarily block the road in lieu of furnishing flag personnel.

(b) Barricades. On roads listed in C5.31#, if Purchaser'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, Purchaser 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 C5.31#, Purchaser 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 – B6.33 SAFETY (continued)

Part II. Specific Requirements:

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

Name

Name

Title

Title

Date

Date

Table Pursuant to C2.35# (Option 1) - Individual Tree Designation, (06/2008)

Subdivision	D x D Spacing	1/ Description of Included Timber (See Other Requirements)
101,102,104,105,107,108	12 feet	Only live Douglas-fir, Western Hemlock, or Incense Cedar, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
80,100,103,106	14 feet	Only live Douglas-fir, Western Hemlock, or Incense Cedar, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
90,110,111	15 feet	Only live Douglas-fir, Western Hemlock, or Incense Cedar, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
120,150	16 feet	Only live Douglas-fir, Western Hemlock, or Incense Cedar, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
160	19 feet	Only live Douglas-fir, Western Hemlock, or Incense Cedar, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
80,90,100,103,106,110,111,120,150,160	DTR	Only live Douglas-fir, Western Hemlock, or Incense Cedar, within 66' slope distance, stump to stump of a marked tree, double banded (2 horizontal stripes) marked with orange tree marking paint above stump height and marked below stump height.

All	<p><u>Purchaser agrees to the following measures:</u></p> <ol style="list-style-type: none"> 1. Down timber from adjacent private land will be protected from cutting and kept separate from Included Timber. 2. Boundary trees are designated with orange tree marking paint and blue boundary cards. 3. Boundary trees with orange paint and blue boundary tags shall be included in the DXD spacing when the boundary tree has a larger stump diameter than other trees within the DXD spacing. Boundary trees shall always "cut" a tree within subdivision/payment unit. Boundary trees shall not be cut. 4. Orange painted trees within Dominate Tree Release (DTR) will not be included timber. 5. If orange painted buffer trees along streams are needed to be cut to accommodate a corridor they shall be directionally felled into the channel and left on site. 6. If purchaser premarks units, trees within 50 feet of Forest roads will be marked on the back side of the tree facing away from road, unless waived by Forest Service. 7. Notice is hereby given that wind-thrown trees, down pieces and snags within the Sale Area outside of Subdivisions, are not included timber.
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Definitions:

1. D x D: Designation by Description.
2. DTR: Dominate Tree Release.
3. D x D Stump Height: Measure at 4 inches above the ground on the uphill side of the tree. When obstacles are present on the uphill side of the tree measure 4 inches from the obstacles.

Other requirements:

1. Minimum stump height left for inspection purposes will be 4 inches.
2. D x D Diameter: Measure at the DxD specified stump height 4 inches, outside the bark with a diameter tape that is perpendicular to the bole of the tree. Stumps missing all or part of their bark will be measured as presented. Measure to the nearest tenth of an inch.
3. D x D Spacing: Measure slope distance at 4 inches above the ground from the closest point between trees. This does not need to be measured on the uphill side of the tree.
4. All leave trees will remain standing.
5. Down Tree: a) An entire tree lying on the ground with an attached root wad;
b) a root sprung tree with broken and exposed roots showing above the ground (root sprung trees must remain identifiable after logging).

C3.47# - Abnormal Delay (09/2004) (con't)**REMOVAL SCHEDULE**

Included Timber	Time Limits
ALL.	60 days after felling is started.
All timber decked during construction clearing.	60 days after felling on each Specified Road constructed by Purchaser is initiated.
Timber decked during road construction.	60 days after Forest Service authorizes Purchaser to use roads pursuant to B5.2.

PLANS AND CRITERIA PURSUANT TO C5.1# (OPTION 1) -
TEMPORARY ROAD AND LANDING CONSTRUCTION (07/2001)

1. The Forest Service and Purchaser shall agree to temporary road locations and clearing limits prior to construction.
2. Temporary roads shall be constructed to a minimum width to accommodate logging equipment and shall be located to minimize the number of trees cut while minimizing the extent of ground impacted by construction.
3. All trees to be cut by the purchaser shall be identified and designated for cutting by the Forest Service prior to cutting.
4. On native running surfaces, hauling shall be restricted to when dry conditions exist. Restricted from October 15 thru May 15.
5. Clearing and grubbing debris shall be scattered in areas designated on the ground by the Forest Service.
6. Straw bales or other agreed upon erosion control devices shall be placed in ditches, as needed, to prevent sediment from entering stream courses. All straw bales will be certified weed free.
7. At the end of each season and/or when purchaser is done with the temporary road and/or termination of contract, purchaser shall install drivable drain dips and water bars and close the road to normal vehicular traffic, B6.63.
8. In accordance with B6.631, Temporary Roads to remain open, to facilitate short-term access, purchaser agrees to leave temporary road open as directed by Forest Service.
9. Methods of closure shall be determined based on existing terrain conditions and needs at the time of closure.
10. Reopening of temporary roads may occur between May 31 and October 15.
11. Other erosion control measures, to stabilize the road and prevent erosion on slopes over 8%, may require a structure approximately every 100 feet. Seed and fertilizer for the road will be in accordance with C6.6#.
12. Culverts shall be placed in all stream courses, along/across temporary roads. Culverts shall be corrugated metal pipe and shall not be less than 18inches diameter.

PLANS AND CRITERIA PURSUANT TO C5.1# (OPTION 1) -
TEMPORARY ROAD AND LANDING CONSTRUCTION (07/2001)
(Continued)

13. Culvert installation in live streams shall take place between July 1 and August 15, C6.315#. During culvert installation in live streams, the streams will be temporarily diverted around the site and biodegradable geotextile cloth will be placed downstream from the site to minimize transport of sediment, unless other methods are agreed to in writing with the Forest Service.
14. Landings shall be designed in accordance to B6.422, shall be as small as operationally feasible, and shall be agreed to in writing by the Forest Service.
15. All landings will be designed to provide adequate drainage to protect the adjacent resources.
16. Areas to be covered with fill material shall be cleared of logs and cull woody material over 4 inches in diameter and/or 8 feet long.
17. Where side slopes exceed 45 percent, waste material shall be end-hauled to locations authorized in writing by the Forest Service.
18. Placement of rock ballast shall not take place unless mutually agreed to in writing by the Forest Service.
19. Rock ballast shall not exceed 4 inches in depth, unless mutually agreed to in writing by the Forest Service. Landing cut and fill slopes shall be left at no steeper than 1 ½ to 1 upon completion of sale operations.
20. Any culverts replaced shall be removed and disposed of by Purchaser off of National Forest lands.

TABLE PURSUANT TO C5.12# - USE OF ROADS BY PURCHASER. (06/1999)

Restricted Road List

	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
1993 ^{1/} 1993300* 1993290*	Wapiti Wilelada Cr	2638 1993 1993	Unit 160 Unit 90 Unit 103	R R R	<p>^{1/} Haul on Road 1993 is not allowed evenings or weekends, or during long holiday periods (Memorial Day, 4th of July and Labor Day), unless waived by Contracting Officer.</p> <p>^{2/} Gate is to remain closed at all times, unless otherwise agreed.</p> <p>Roads marked with asterisk (*) have limited strength and are likely to be damaged if used when adverse conditions exist in the roadbeds.</p>
<u>Rock Haul Roads</u>					
2653 ^{1/}	Boulder Cr			R	
2653704 ^{2/}				R	

MATERIAL SOURCE TABLE PURSUANT TO C5.221# - MATERIAL SOURCES (04/2004)

Material	Type of Purchase	Owner(s)	Unit of Measure	Unit Price	Estimated Quantity	Total
		NA				

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
C5.31# - ROAD MAINTENANCE REQUIREMENTS (7/01)

Column No.	Heading	Entry	Explanation
	Any	Blank	Except as otherwise described, no entry indicates Purchaser 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	Purchaser shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work.
		Numbers	Purchaser 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	Purchaser 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	Purchaser may use hand or mechanical means of brushing.
		H	Only hand brushing may be used.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
C5.31# - ROAD MAINTENANCE REQUIREMENTS (7/01)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Purchaser shall place surfacing on roads listed according to the grading indicated.
6	Dust Abatement	OPT	Product selection is Purchaser's choice from those listed in Section T-812.
		Product Abbr.	Unless otherwise agreed, Purchaser 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	Purchaser shall abate dust on the existing width
		Numbers	Purchaser 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 Purchaser prior to nonuse periods.
8	Snow Removal	TS	Snowplowing authorized for Purchaser'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	PR	PR denotes that work is Purchaser's Responsibility to perform.

C6.315# - SALE OPERATION SCHEDULE (06/94)

Subdivision	Operating Conditions	Purpose
ALL	Restrict ground based operations to Normal Operating Season. <u>Factors to consider, when evaluating a waiver request:</u> <ul style="list-style-type: none"> • Lower soil moisture content • Minimal standing water • Non clay soils • Existing soil disturbance • Existing soil exposure • Existing soil compaction • Anticipated weather conditions • Opportunities to work on snow • Anticipated ground base method 	Minimize soil resource impacts
ALL	Restrict haul during evenings (6:00-12:00), weekends or during holidays, such as, but not limited to, Memorial Day, 4 th of July and Labor Day	Public Safety
ALL	Restrict all operations during approximately the 3 rd week in October, including the Friday before, through the end of the Friday following. All commercial vehicle traffic shall be restricted on all Forest roads during this period.	Cascade Bull Elk Rifle Season
All	No operations allowed evenings, weekends or during long holiday periods (Memorial Day, 4 th of July and Labor Day), unless waived by Contracting Officer.	Recreation Users
ALL	All in stream work for road reconstruction shall be restricted from July 7 to August 15.	Minimize impacts to water resources
All	Haul route danger tree felling will be restricted from April 1 to July 31.	Cavity Nesters

C6.41# -Specific Requirements (01/2000)

<u>FELLING METHODS</u>	<u>SUBDIVISIONS</u>
1. Directional Felling shall be utilized to fall away from designated streamscourses, buffers, residual trees or as directed.	<u>All</u>
2. Directional Felling shall be utilized to fall included timber away from Forest Road 1993.	<u>ALL</u>
<u>FELLING EQUIPMENT</u>	<u>SUBDIVISIONS</u>
The use of tree jacks, wedges or tree lining may be required, however, the required methods used shall not be limited to these options.	<u>ALL</u>

TABLE PURSUANT TO C6.42# - YARDING/SKIDDING REQUIREMENTS (04/2003)

YARDING/SKIDDING REQUIREMENTS

Subdivision

<p><u>A/. Prior to ALL</u> operations commencing, purchaser shall submit a plan of operations, specifying, but, not limited to:</p> <ol style="list-style-type: none"> <u>1.</u> haul road access to and from unit, <u>2.</u> all proposed temporary spur roads, <u>3.</u> landings, <u>4.</u> skid trails and roads, <u>5.</u> decking areas. 	<p>ALL</p>
<p><u>B/. Ground based yarding permitted/restricted to predesignated and approved skidtrails in subdivisions and portions of subdivisions.</u></p> <ol style="list-style-type: none"> <u>1.</u> No more than 2 mainline skidtrails or skidroads shall radiate from landings. Secondary or feeder skidtrail or skidroad use will be maximized in order to minimize the number needed and to avoid excessive compaction and/or disturbance. <u>2.</u> No ground based yarding across designated streamcourses. <u>3.</u> Skid trails will be spaced no closer than 75 feet, from center line to center line. <u>4.</u> Ground based yarding equipment will be equipped with an arch and a winch line, a minimum of 75 feet. <u>5.</u> A <u>ground based yarding system</u> capable of transporting logs 500 feet, utilizes an arch or equivalent system of elevating the lead end of the log and a cable drum system w/ a bull line, track mounted skidder, or yarding cat. <u>6.</u> Yarding and skidding is restricted to slopes 30% or less. Short, isolated pitches up to 40% may be approved. <u>7.</u> Ground based equipment will be restricted from operating within 50 feet of streams. 	<p>80,100,101,102, 103,104,105,106, 107,108,120</p>
<p><u>8.</u> Yard tops attached is required for Subdivision 101.</p>	<p>90,101,104,105, 107,108,110,111, 120</p>
<p><u>C/. Skyline yarding permitted as designated in subdivisions and portions of subdivisions as designated on Sale Area Map.</u></p> <ol style="list-style-type: none"> <u>1.</u> No yarding across designated streamcourses. <u>2.</u> All skyline yarding corridors shall initially be made as narrow as practical. The corridors shall normally not exceed 15 feet in width after yarding has been completed. All corridors shall be a minimum of 150' (feet) center-to-center for parallel corridors or a minimum of 150' (feet) at the backend or farthest point from the landing for radial logging configurations. <u>3.</u> All skyline corridors shall be approved before timber falling is started. <u>4.</u> One-end suspension required when using skyline yarding system. <u>5.</u> A <u>skyline yarding system</u> capable of transporting logs at least 1000 feet uphill and 600 feet downhill. The yarder must be equipped with a spar tower with a cable fairlead at least 40 feet above the ground and a slack pulling 	<p>90,110,111,120, 150,160</p>

<p>carriage with a 100' dropline.</p> <p>6. For skyline yarding system, a carriage with skyline clamping capability will be required.</p>	
<p><u>D/. Yarding/Skidding Requirements</u></p> <p>1. Pre-bunching equipment is permitted on slopes up to 45%.</p> <p>2. No fueling or fuel storage within 150' of a stream or water body.</p> <p>3. All access points for temporary roads and skidroads (main or secondary) to Forest road 1993 shall be no closer than 200' (feet) spacing slope distance.</p>	<p>ALL</p>

APPLICATION SCHEDULE PURSUANT TO C6.6# - EROSION CONTROL AND SOIL TREATMENT BY PURCHASER (07/01)

PAYMENT UNIT OR UNIT NUMBER	AREAS	SEED		FERTILIZER		MULCH	
	A) SKID TRAILS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) OTHER	APPLICATION		APPLICATION		APPLICATION	
		SPECIES <u>1/</u> mixture	LBS/AC	TYPE <u>2/</u>	LBS/AC	TYPE <u>3/</u>	LBS/AC
ALL	A, C, D.	<u>1/</u>	20	N/A	N/A	N/A	N/A

1/ Seed mixture will be any of the following: winter wheat, spring wheat, or triticale. Seed will be certified weed free (Blue tag). Application rate will be 20 lbs/acre.

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 purchaser 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.

4/ All skid trails/roads used by Purchaser that have a mineral soil exposed for lineal distances based on the slope of the skidtrail

Waterbars will be spaced every 100 feet on slopes less than 10%,
 Waterbars will be spaced every 75 feet on slopes of 10-19%,
 Waterbars will be spaced every 50 feet on slopes of 20-39%,
 Waterbars will be spaced every 25 feet on slopes greater than 40%.

Waterbar locations should occur where local terrain feature facilitates effective drainage of the skidtrail. Install waterbars at a 45-degree angle to the slope, pointing downslope towards the drain of the slope. Outlet shall be lower than the inlet of the waterbar at all times. Side berms shall not occur, which, would negate the transfer action of the waterbar. The outlet of the waterbar shall be armored with material that is present to aid in the reduction of erosion at the outlet.

Treated areas shall span the total width of compaction. Water barring shall be kept reasonably current and shall be done during Normal Operating Season unless otherwise agreed.

DETAILED SLASH DISPOSAL PLAN
Saddle Timber Sale
Willamette National Forest, McKenzie River Ranger District

- In accordance with Contract Provisions C6.74#, Slash Treatment Requirements and Detailed Slash Disposal Plan
- Not with standing Contract Provision C6.74#

Purchaser responsibilities are as follows:

- A) **Construction and size of landing piles:** The purchaser shall pile substantially all created slash at least 1 inch in diameter on the small end and at least 3 feet in length. Created slash shall be piled as compact as possible and free of soil and rocks. Landing piles shall be a minimum of 6 feet in height and 6 feet in diameter. Height of piles should not exceed 25 feet and should be approximately equal to the diameter. The area around each pile shall be cleared of all created slash a minimum of 6 feet. All pieces extruding from piles shall be bucked off to facilitate covering after construction.
- B) **Construction and size of grapple piles: Payment Units #80, #100, #102, #103, #106, #120:** Created slash within designated areas of the above listed Payment units will be grapple piled. Grapple piles will be constructed with a "lift and pile" mechanism rather than a "push and pile" mechanism. Piles shall be as compact as possible and free of soil and rocks. Pile created slash that is at least 1 inch in diameter at the small end and at least 3 feet in length sufficient to reduce post-harvest fuel loadings of slash 1-3 inches in diameter to no greater than 7.4 tons/acre and 3-9 inches in diameter no greater than 7.1 tons/acre consistent with *Stereo Photo Series for Quantifying Forest Residues in the Douglas-fir-hemlock type of the Willamette National Forest, Series 1-DFWH-PRE-01*. Pile height shall be approximately equal to pile diameter. The area around each pile shall be cleared of all created slash a minimum of 6 feet. All pieces extruding from the piles shall be bucked off to facilitate covering after construction.
- A. **Payment Units #80, #100, #103, and #106:** Created slash within the above listed payment units shall be grapple piled.
- B. **Payment Unit #102:** Created slash within 200 feet of the south side of Rd. 1993-290 shall be grapple piled.
- C. **Payment Unit #120:** Created slash within the ground base logged portion of the payment unit shall be grapple piled.
- C) **Location of all landing and grapple piles:** Slash piles will be located to minimize damage of standing green trees and snags during burning. Unless otherwise agreed, this will be construed to be at least 10 feet from standing green trees and snags. Piles should not be built on tree stumps or heat sinks. Piles should not be located in the bottom of draws, streams, or ditches and should not obstruct roadways.
- D) **Construction and size of hand piles: Payment Units #90, #104, #105, #107, #108, #110, #111, #120, #150, #160.** Substantially all created slash within designated areas of the above listed payment units shall be hand piled. Created slash to be hand piled is slash that is at least 1 inch in diameter at the small end and at least 3 feet in length. Fine slash should be placed at the bottom of the pile with heavier material on the top. Height of piles shall not be less than 5 feet and shall be approximately equal to the

diameter of the pile. Piles shall be built to facilitate covering after construction. All pieces extruding from piles shall be bucked off. All piles shall be constructed within the payment unit.

- a. **Payment Unit #90:** substantially all created slash within will be hand piled.
 - b. **Payment Unit #104:** substantially all created slash within 100 feet of both sides of Rd. 1993 shall be hand piled.
 - c. **Payment Unit #105:** substantially all created slash within 100 feet of both sides of Rd. 1993 shall be hand piled.
 - d. **Payment Unit #107:** substantially all created slash within 100 feet of both sides of Rd. 1993 shall be hand piled.
 - e. **Payment Unit #108:** substantially all created slash within 100 feet of the north side of Rd. 1993 shall be hand piled.
 - f. **Payment Unit #110:** substantially all created slash within 100 feet of the north side of Rd. 1993 shall be hand piled.
 - g. **Payment Unit #111:** substantially all created slash within 100 feet of the north side of Rd. 1993 shall be hand piled.
 - h. **Payment Unit #120:** substantially all created slash within 100 feet of both sides of Rd. 1993 in the skyline logged portion of the payment unit shall be hand piled.
 - i. **Payment Unit #150:** substantially all created slash within 100 feet of both sides of Rd. 1993 shall be hand piled.
 - j. **Payment Unit #160:** substantially all crated slash within 100 feet of the north side of Rd. 1993 shall be hand piled.
- E) **Location of hand piles:** Piles will be located to minimize the damage of standing trees during burning. Unless otherwise agreed this will be construed to be equal distance from the boles of standing green trees and snags. Piles shall not be located within drainage structures, ditches, or stream channels. Piles shall not be placed on stumps or logs in order to remove a heat sink when burning. Piles will be placed so their length is parallel to the direction of the slope.
- F) **Covering of all grapple and hand piles:** All grapple and hand piles shall be covered with polyethylene plastic film .004 inches thick. Plastic size shall be approximately 100 square feet to ensure rapid ignition and efficient combustion. Plastic shall be placed in locations that will ensure safe and adequate ignition can be achieved to allow consumption of piles. Pieces of burnable material shall be placed on top of the plastic to keep plastic from filing with wind and blowing off.