PART III: EXHIBITS

State Timber Sale Contract No. 341-12-68 Another Nelson

EXHIBIT B

Page 1 of 3 629-Form 341-203 Revised 06/97

OREGON DEPARTMENT OF FORESTRY

TIMBER SALE OPERATIONS PLAN

(See Page 2 for instructions)

Date	Received by STATE:	(5) State Bran	d Information (complete):	
(1)	Contract No.: 341-12-68	<u></u>		
(2)	Sale Name: Another Nelson			
(3)	Contract Expiration Date: July 31, 2014	Project Complet	ion Dates:	
	*		Hon Dutes.	
(4)	Purchaser:			
(6)	Purchaser Representatives:			
	D : .	DI	Cell/Other	
	Projects:	Phone:	Phone: Cell/Other	Home:
	Projects:	Phone:		Home:
			Cell/Other	
	Projects:	Phone:	Phone:	Home:
			Cell/Other	
	Projects:	Phone:		Home:
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	Logging:	Phone:	Phone: Cell/Other	Home:
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	Logging:	Phone:	Phone:	Home:
(7)	State Representatives:			
(7)	State Representatives:		Cell/Other	
	Projects:	Phone:		Home:
	110,000.00		Cell/Other	
	Logging:	Phone:		Home:
(8)	Name of Subcontractors & Starting Dates:			
	Projects: No(s)	Date:	Phone:	
	No(s)	Date:	Phone:	
	No(s)	Date:	Phone:	
	No(s)	Date:	Phone:	
	Logging: Felling			
	Yarding:	Date:	Phone:	
(0)	-			
(9)	Comments:			

(10) Operations Map: Attach a copy of timber sale Exhibit A or other suitable map which plainly shows the items listed on the instruction sheet.

EXHIBIT B

INSTRUCTION SHEET FOR OPERATIONS PLAN

SUBMIT ONE COPY OF PLAN TO STATE

Operations shall be limited to the work shown in the plan until a revised plan or supplemental plan is submitted covering additional work. Compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act. If STATE has prepared a required Forest Practices Act (FPA) "Written Plan" for operations, PURCHASER shall comply with all provisions of the Written Plan.

Explanation of Item No. (from Page 1)

- (5) All sales require you to use a brand furnished by STATE. If the State brand has not been assigned when the plan is submitted, it will be furnished and assigned later. Complete drawing. If more than one brand is assigned to the sale, complete both drawings.
- (6) The contract requires you to have a designated representative available on the sale area or work location who is authorized to receive in your behalf any notice or instruction given by STATE and to take action in regard to performance under the contract. If logging and project work is widely separated, a representative is required for each.
- (7) The STATE representative will be designated when your plan is approved and is the person who will inspect and issue instructions regarding performance.
- (8) Show names of subcontractors to be used for any or all phases of the operations. If subcontractors are not known, or are changed later, give notification to the STATE representative prior to commencement of work by subcontractor.
 - Show projected dates for commencement of both projects and logging. If projected dates need to be changed at a later date, notification must be given to the STATE representative by supplemental plan or otherwise, prior to commencement of such operations.
- (10) The STATE representative will furnish extra copies of Exhibit A of the contract for your use in preparing the operations map. The map shall use the following legend and show:
 - 1. Landing locations, approximate setting boundaries, and probable sequence of logging the settings. Number the settings in sequence.
 - 2. Locations of spur roads planned for construction, other than those required by the timber sale contract. Provide spur road specifications.
 - 3. Location of proposed tractor yarding roads. Show if and how marked on the ground.
 - 4. Location of temporary stream crossings.
 - 5. List the sequence of performing project work.
 - 6. Location of rock sources attach pit development plans.

(1)	Cable Landing, with numbers for sequence.
A	Tractor Landing with alphabetical sequence.
	Approximate setting boundary.
	Spur truck roads.
~~	Tractor yarding roads.
X	Temporary stream crossings.

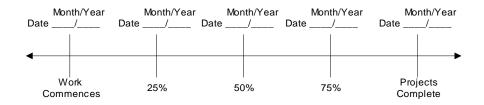
EXHIBIT B

OPERATIONS PLAN

Completion Timeline

Indicate on the appropriate timeline below, the dates by which you plan to complete the work as required under this contract. The purpose of this section is to develop a plan that will ensure you complete the work as required, and meet the interim completion date(s) and contract expiration date. This plan is incorporated and made a part of the contract. When, in the opinion of STATE, operations are not commencing in a manner that meets the intent of this plan, you may be placed in violation of contract and your operations suspended until an amended plan is submitted and approved by STATE.

Projects



Harvest & Other Requirements



The Federal Endangered Species Act (ESA) prohibits a person from taking any federally listed threatened or endangered species. Taking under the federal ESA may include alteration of habitat. STATE's approval of this plan does not certify that PURCHASER's operation under the plan is lawful under the federal ESA. As provided in the timber sale contract, PURCHASERS must comply with all applicable state, federal, and local laws.

PURCHASER's compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act.

APPROVED: Date: STATE OF OREGON - DEPARTMENT OF FORESTRY	SUBMITTED BY: PURCHASER
Title	Title

Original: Salem
cc: District File
Purchaser

Operations Plan.doc/Jaz B (TS)

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EXHIBIT C - SAWMILL GRADE

SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)(2)(3)(4)	REVISION NUMBER Date CANCELLATION Date TO: (Third Party Scaling Organization) FROM: Western Lane (03) Phone 541-935-2283 (State Forestry District) Address 87950 Territorial Hwy., Veneta, OR 97487					2283 7487	(13) SALE NAME: Another Nelson COUNTY: Lane (14) STATE CONTRACT NUMBER: 341-12-68 (15) STATE BRAND REGISTRATION NUMBER (16) STATE BRAND INFORMATION (COMPLETE):
(5)	Phone Nu	mber:					
(5)	SPECIFIC	SCALING ATIONS			CLASS	3	
	PECIES Conifers	SCALING DIAMETER INCHES	*NET SCALE VOLUME 10	PER MBF	** SUM	SUB	(17) PAINT REQUIRED: YES ⊠ COLOR: <u>Orange</u>
На	rdwoods		10				(18) SPECIAL REQUESTS (Check applicable)
(6) (7) (8)	WESTSID Use Region 6 EASTSIDI Use Region 6	rolume test to whole): see instructions a PE SCALE: actual taper rule. Lo actual taper rule. Lo actual taper rule. Lo actual taper rule. Lo calle Sample	nd explain in Item ogs over 40'.	(19).	res	NO	PEELABLE CULL (all species)
(0)	Ū	log load receipts					(19) REMARKS
(9) (10)	Weight Sa Per Load (9) and (10), y	lle yellow log load recei	pts				
(11 (as she site)	LOCA	VED SCALII TIONS pproved Locations w	<u>e</u> s		Yard	Weight	Operator's Name (Optional inclusion by District): (20) SIGNATURES: Purchaser or Authorized Representative Date State Forester Representative Date
(12)	NOTICE (OF CANCEL	LATION OF	BRAN	ID:		State Forester Representative PRINT NAME
	Effective D	Date:					

Notify the District within one hour when branding or painting is inadequate for quick identification, the receipts are missing, not correctly or completely filled out, and/or when logs presented for scaling are impossible to scale accurately.

EXHIBIT C- **SAWMILL GRADE** INSTRUCTIONS FOR FORM 343-307 (rev. 01/09)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires Item (12). Complete date.
- (2) Designate Third Party Scaling Organization (TPSO).
- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Minimum Scaling Specifications. Review Section 2040 or 2045, "Log Removal," of the Contract. Species, or combined species can be separate entries. Information serves as a basis for scaling (see also Items (16) thru (18)), and is required to show existence on the sale. **SUM** (lump sum material). **SUB** (sub-merchantable material). SUB, as used by the State, references that material containing at least 10 bf (net) but less than the lower merchantable net volume limit or grade requirements for other merchantable (Per MBF) entries. Per MBF, SUM, and SUB must be indicated by checking the appropriate column. Species with the same specifications and value are combined into one entry. Per MBF and SUB require scaling therefore complete specifications. SUM need not be scaled, hence no specifications. Loads containing only SUM are to be ticketed if so instructed in Item (19). Mixed loads of SUM, Per MBF and/or subspecies will always be scaled.
- (6) Westside Region 6 actual taper segment scale. Check Yes or No. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Westside).
- (7) Eastside Region 6 actual taper/taper table segment scale. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Northwest Log Rules Eastside). Items with * follow U.S. Forest Service Eastside rules.
- (8) Weight Scale Sample Check box if sale is to be a Weight Scale Sample. All specifics for handling, scaling and processing will be attached or explained in the Remarks section Item (19).
- (9) Weight Sale Check box if sale is to be sold as a weight sale. Processing procedures from approved locations to TPSO's will be explained in the Remarks section of Item (19).
- (10) Per Load Check box if volumes on sale are per load. Specific instructions for handling and processing will be fully explained in the Remarks section of Item (19).
- (11) Show scaling locations only applicable to TPSO. Location name should appear as it does on the ODF Approved Scaling Location web site: http://www.odf.state.or.us/DIVISIONS/management/asset_management/ScalingLocation.asp Locations with scaling and processing directions specific to their location should be on a separate form. Species should be identified if not capable of receiving "all" species. Check appropriate box for either: yard, truck scale, or weight. Refer to the web site listed above for the locations approval status.
- (12) When logging and hauling is complete, recall branding hammers, date and sign where indicated, check CANCELLATION box in Item (1), and send to TPSO.
- (13) Enter sale name and county.
- (14) Enter sale Contract number.
- (15) Enter Oregon's State Brand Registry Number (REQUIRED).
- (16) Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (19).
- (17) Check yes for Paint Required and designate "Orange" for color. Non required removal volumes may sometimes require blue paint.
- (18) Special Requests. These are requests that will be applied to ODF timber sales. All boxes applicable to the timber sales designated in the Exhibit C form must be "marked". If "Other" is indicated, it must contain a description and any necessary comments.
- (19) Use this space to designate any weight conversion factors, per load volumes, weight scale sample instructions or any other explanations to clarify scaling, processing and/or mailing requirements. If additional scaling locations are approved, revise original or current form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (20) Require purchaser to sign and date completed form in addition to State Forester Representative, sign and print name on the form.

Salem Distribution Instructions: Original will be mailed to Salem after it is electronically scanned and e-mailed directly to the State Forests Program/Asset Management Unit to both Timber Revenue Specialists. Scaling instructions for each brand should be scanned separately, for each approved TPSO.

Distribution (See specific instructions on pg.2): ORIGINAL: Salem / COPIES: TPSO, Approved Scaling Location, Purchaser, District, Mgmt. Unit

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EXHIBIT C - PULP SORT

SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	ORIGINAL	_ REGISTR <i>A</i>	NOITA	☐ Date	e			(13)	SALE NAME: Another Nelson	
	REVISION	NUMBER _		☐ Date	e				COUNTY: Lane	
	CANCELL	ATION		☐ Date	e				STATE CONTRACT NUMBER: 341-12-68	_
(2)	TO:	(Third D	arty Scaling ()raanizati	on)		_	(15)	STATE BRAND REGISTRATION NUMBER	
(3)	TO:(Third Party Scaling Organization) FROM: Western Lane (03) Phone 541-935-2283						(16)	STATE BRAND INFORMATION: (COMPLETE BELOW)		
(3)		State Forestry [one <u>54 i</u>	-933-	220	<u>3</u>	()		
	Address 8	7950 Territo	<u>rial Hwy., '</u>	Veneta,	OR 9	748	<u> 87</u>			
(4)	PURCHAS	SER:					_			
		ldress:								
	Phone Nu	mber:					_			
(5)	MINIMUM	SCALING		Τ]		
(0)	SPECIFIC				CLAS	S				
		SCALING DIAMETER	*NET SCALE	PER	**			` '	PAINT REQUIRED: YES 🗵	
SI	PECIES	INCHES	VOLUME	MBF	SUM	S	SUB		COLOR: Blue	
	nifer Pulp	Per Load					Χ	(18)	SPECIAL REQUESTS (Check applicable)	\neg
Hard	lwood Pulp	Per Load					Χ		LABLE CULL (all species)	\Box
*	Apply minimum	rolume test to whole	logo over 40' Wee	atoido: 20' Eo	otoido				DEDUCTIONS ALLOWED	'
**): see instructions a	-		isiside.				MECHANICAL DAMAGE	
(6)	WESTSID	E SCALE:		`	/ES	NC)		CIL BUCK	-
(-)		actual taper rule. Lo	ogs over 40'.		\Box	\boxtimes			-BACK VOLUME - Deductions due to delay ER: Convert loads using a factor of 2,000 board	_
(7)	EASTSIDE								per load.	
	Use Region 6	actual taper rule. Lo	ogs over 40'.			\boxtimes				
(8)	-	ale Sample				\times			SPECIAL PROCESSING INSTRUCTIONS: (1) TI	
*(9)	Weight Sa	•				\boxtimes			Scaler Receipt portion of the STATE Log Load Reshall be removed and mailed weekly to the appro-	
	•	ii C			\boxtimes				Third-Party Scaling Organization (TPSO). (2) The	
(10)	Per Load	yellow log load recei	nts						TPSO shall notify the Western Lane District Office	
	(o) und (10),	yollow log load recei	ρισ						(541)935-2283 immediately if the above requirem are not met.	<u>ents</u>
(11	,	VED SCALI	ING	(n						
(as show		ATIONS proved Locations web	o-site)	Species	Yard	Truck	Weight		Operator's Name (Optional inclusion by District):	_
			·	o be	Α	Ę	We	(20)	SIGNATURES:	
					+				Purchaser or Authorized Representative Date	,
									State Forester Representative Date	,
									State Forester Representative PRINT NAME	
(12)	NOTICE (OF CANCEL	LATION O	F BRAN	ID:					
` -/										
	Effective D	Jaie					_			

Notify the District within one hour when branding or painting is inadequate for quick identification, the receipts are missing, not correctly or completely filled out, and/or when logs presented for scaling are impossible to scale accurately.

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EXHIBIT C- PULP SORT INSTRUCTIONS FOR FORM 343-307 (rev. 01/09)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires Item (12). Complete date.
- (2) Designate Third Party Scaling Organization (TPSO).
- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Minimum Scaling Specifications. Review Section 2040 or 2045, "Log Removal," of the Contract. Species, or combined species can be separate entries. Information serves as a basis for scaling (see also Items (16) thru (18)), and is required to show existence on the sale. **SUM** (lump sum material). **SUB** (sub-merchantable material). SUB, as used by the State, references that material containing at least 10 bf (net) but less than the lower merchantable net volume limit or grade requirements for other merchantable (Per MBF) entries. Per MBF, SUM, and SUB must be indicated by checking the appropriate column. Species with the same specifications and value are combined into one entry. Per MBF and SUB require scaling therefore complete specifications. SUM need not be scaled, hence no specifications. Loads containing only SUM are to be ticketed if so instructed in Item (19). Mixed loads of SUM, Per MBF and/or subspecies will always be scaled.
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- (17) Check yes for Paint required and designate color being used. Non-required removal volumes may *sometimes* require blue paint.
- (18) Special Requests. These are requests that will be applied to ODF timber sales but are *not* applicable to non-scale materials. Special requests boxes must be "marked" if they apply to the timber sale, designated in the Exhibit C scaling instructions form. If "Other" is indicated, it must contain a description and any necessary comments.
- (19) Use this space to designate any weight conversion factors, per load volumes, weight scale sample instructions or any other explanations to clarify scaling, processing and/or mailing requirements. If additional scaling locations are approved, revise original or current form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
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EXHIBIT D

FOREST ROAD SPECIFICATIONS

ROAD	STATIONS	CONSTRUCTION/ IMPROVEMENT	SUBGRADE WIDTH	SURFACED WIDTH	DRAINAGE
Spur 1	14+67	Improvement	16'	12'/Dirt	ditched/outsloped
Spur 1	16+98	New Construction	16'	Dirt	flat
Spur 1A	21+24	New Construction	16'	12'	ditched
Rock Pit Access	10+00	New Construction	14'	Dirt	outsloped

<u>CLEARING</u>. This work shall consist of clearing, removing, and disposing of all trees, Snags, Down Timber, brush, surface objects, and protruding obstructions within the clearing limits.

Where clearing limits have not been marked, the clearing limits shall extend 10 feet back of the top of the cutslope and 5 feet out from the toe of the fill slope, or as directed by STATE. Clearing debris shall not be placed or permitted to remain in or under any road embankment sections. Clearing debris shall not be left lodged against standing trees.

All danger trees, leaners, and Snags outside the clearing limits which could fall and hit the road shall be felled.

GRUBBING. This work shall consist of the removal or digging out of stumps and protruding objects.

All stumps shall be completely removed within the limits of required grubbing. Stumps overhanging cutslopes shall be removed. Grubbing debris shall not be placed or permitted to remain in or under any road embankment sections. Grubbing debris shall not be left lodged against standing trees.

GRUBBING CLASSIFICATION.

New construction - from the top of the cutslope to the toe of the fill.

Improvements and reconstructions - 4 feet back from the shoulder of the subgrade or ditch, whichever is widest, or as marked in the field.

<u>CLEARING AND GRUBBING DISPOSAL</u>. Scatter in stable locations through openings in the timber outside of the cleared right-of-way, except areas where end-haul is required. In areas where end-haul is required, clearing and grubbing debris shall be fully contained and hauled to a designated waste area. Clearing and grubbing debris shall be left in a stable location, and not left lodged against standing trees.

State Timber Sale Contract No. 341-12-68 Another Nelson

EXHIBIT D

FOREST ROAD SPECIFICATIONS

<u>EXCAVATION</u>. Excavation and grading shall not be done when weather and/or ground conditions are such that damage will result to existing subgrade or cause excessive erosion.

Excavation shall conform to STATE-specified lines, grades, dimensions, and plans when provided.

Unless road plans show otherwise, all roads shall be on a balanced cross section, except when the slope is over 50 percent, the road shall be on full bench for the width specified.

Suitable excavated material shall be used for the formation of fills, shoulders, and drainage structure backfills. Embankment materials shall be free of woody debris, brush, muck, sod, frozen material, and other deleterious materials.

Sidecast includes any road generated excess excavation material which is not essential as part of the road prism, is not compacted, and is below the roadway. Sidecast shall not be placed where it will enter a stream course. Leaving sidecast below the road is only permissible if specifically allowed in "Full Bench and End Haul Requirements" in this Exhibit.

All fills shall be machine compacted according to the "Compaction and Processing Requirements" in this Exhibit.

<u>ROAD WIDTH LIMITATIONS</u>. PURCHASER shall obtain advance written approval from STATE to construct the road to a greater width than specified. Extra subgrade width shall be required for:

Fill Widening. Add to each fill shoulder 1 foot for fills 3 feet to 6 feet high; 2 feet for fills over 6 feet high.

<u>Curve Widening</u>. Widen the inside shoulder of all curves as specified in the plans or as follows: 400 divided by the radius of the curve equals the amount of extra width.

DRAINAGE

<u>Subgrade</u>. Subgrade shall be crowned or outsloped at 4 to 6 percent as shown on the "Forest Road Specifications" table in this Exhibit.

Ditch. Construct "V" shaped ditch 3 feet wide and to a depth of 1 foot below subgrade.

Ditchouts. Construct ditchouts to drain away from subgrade at locations marked in the field or as directed by STATE.

<u>TURNOUTS</u>. Increase roadbed width an additional 8 feet for both subgrade and surfacing. Length shall be at least 25 feet, or as staked on the ground, plus 25-foot approaches at each end.

Location: As marked in the field or directed by the STATE.

SLOPES	Back Slopes	Fill Slopes
Solid Rock	Vertical to 1/4:1	
Fractured Rock	1⁄2:1	
Soil - side slopes 50% and over	1⁄2:1	1 1/3:1
Soil - side slopes less than 50%	3/4:1	1 1/3:1

<u>LANDINGS</u>. Landings shall be constructed as posted in the field, no less than 50 feet wide and no more than 75 feet wide unless otherwise approved by STATE. Surface is to be crowned for drainage with general grade no more than 3 percent. Surface as shown in the "Road Surfacing" table in this Exhibit.

TURNAROUNDS. Increase subgrade width an additional 20 feet for a length of 20 feet at locations marked in the field.

<u>SEASONAL WINTERIZATION</u>. All unsurfaced roads or unfinished subgrades shall be waterbarred in accordance with the specifications in Exhibit *, and blocked from vehicular traffic prior to October 1, annually and as directed by STATE.

Another Nelson

EXHIBIT D

FOREST ROAD SPECIFICATIONS

GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

- (1) <u>Timber Removal</u>. Remove all trees within posted right-of-way boundary as specified in Section 2210, "Designated Timber." For the Rockpit Access Spur, remove trees along the posted centerline as necessary to build the 14 foot subgrade (PURCHASER to mark Right-of-Way and have STATE approval prior to felling). Rock pit timber shall be bucked to length, decked along the Tilden Ridge Road, and remain the property of the STATE.
- (2) Excavated Materials. Excavated materials shall be utilized for road construction and hauled in where necessary. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Surplus excavated materials and waste materials shall be sloped and compacted for drainage. Fills shall be thoroughly compacted in accordance with this Exhibit. Excess excavated material not used for embankment shall be sidecast on slopes up to 50 percent or end hauled or pushed to waste areas as shown on Exhibit A and marked in the field or be used for fills.
- (3) <u>Controlled Blasting</u>. Controlled blasting techniques shall be utilized for any blasting operations, and shall be accomplished using timing devices, delayed charges, low intensity shots, or other suitable means to contain material within the road prism. Seasonal restrictions apply to rock pit project area (Section 2455).
- (4) <u>Subgrade Preparation and Application of Surfacing Rock.</u>
 - (a) Complete culvert installations, drainage ditches, ditchouts, fill construction, and other specified work prior to the application of surfacing rock.
 - (b) Subgrade shall be crowned or outsloped at 4 to 6 percent.
 - (c) Subgrades shall be compacted with a vibratory roller.
 - (d) Subgrade must be approved by STATE prior to application of surfacing material.
 - (e) Upon completion of above required work, apply, process, and compact surfacing rock in accordance with specifications in the "Compaction and Processing Requirements" in this Exhibit. Final road surface shall be crowned or outsloped at 4 to 6 percent for Spur 1A and Spur 1 Improvement. Final road surface shall be made flat for portions of Spur 1 that is constructed on Roseburg Resources Company property.

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

Spur 1 (Improvement – 14+67 Stations):

- Subrade is to have a ditch till just past junction with Spur 1A (0+00 to 2+10 ditchout).
- Grade and shape remainder of Spur 1 as an outsloped road.
- Re-establish/establish ditchouts in the through cut areas to allow water drainage.
- Install culvert (18" X 40') in ditch beneath Spur 1A junction and construct a ditchout.
- Subgrade shall be compacted from 0+00 to 14+67 (start of new construction of Spur 1) with a vibratory roller.
- Rock shall be applied at 4" compacted depth of 3 inch minus base rock and 4" compacted depth of 1 ½" minus cap rock from Station 0+00 to 1+85 (junction of Spur 1A). Additional rocking shall be from 1+85 to 2+35 at a compacted depth of 3" with 1½ inch minus rock for reducing contamination from the dirt surfaced portion of Spur 1.

Spur 1 (New Construction - 16+98 Stations):

- Construct 16 foot outsloped subrade.
- Grades are not to exceed 18% and curve widening is required.
- PURCHASER shall take all necessary precautions to avoid damage to reforested areas.
- Subgrade shall be compacted with a vibratory roller.

State Timber Sale Contract No. 341-12-68 Another Nelson

EXHIBIT D

FOREST ROAD SPECIFICATIONS

Spur 1A (New Construction - 21+24 Stations):

- Construct crowned 16-foot subgrade with a ditch.
- Grades are not to exceed 18% and curve widening is required.
- Subgrade shall be compacted with a vibratory roller and shall be approved by STATE prior to rocking.
- Landings (4+35 and 21+24) shall have 50' of Jaw-run rock applied to 8" compacted depth and 24' wide.
- Rock shall be applied at 4" compacted depth of 3 inch minus base rock and 4" compacted depth of 1 ½" minus cap rock for entire length of spur.
- Cross drain culverts (18" X 30') shall be placed around 3+30, 6+75,12+60, and 15+62.
- Turnouts shall be at Station 4+35 (TOR/Landing) and 11+00 (TOR).
- A truck turn-around is to be constructed at 18+10.

Rock Pit Access Spur:

- Spur must be constructed prior to September 15, 2012. The test drilling must be completed by September 30, 2012 unless otherwise approved by the STATE. Two week notice must be given to the STATE prior to commencing test drilling.
- The intended route is flagged with orange flagging and the Right-of-Way shall be posted by the PURCHASER and approved by the STATE prior to felling of timber within the Right-of-Way.
- Construct outsloped subgrade that is at least 14 feet wide.
- Side casting of material is acceptable. Root wads and other large material must be placed in an approved stable location.
- All cut trees shall be cut to length and all logs shall be decked at an approved location along Tilden Ridge Road. Logs shall remain the property of the STATE.
- The grades shall be less than 4%, for portions of the road going through the test drilling areas. All other portions of the road shall have grades less than 20%.
- All test holes shall be sealed using bentonite chips.
- At the end of test drilling, install waterbars as directed by the STATE.
- Tilden Ridge Road shall be cleared of any material resulting from operations. Material shall be placed in a stable location approved by the STATE.

Final Road Maintenance Requirements (Spur 1 – rocked portion and Spur 1A):

- Grade and shape roads.
- Pull ditches, clean culvert catch basins, and establish ditchouts.
- Apply patch rock as directed by STATE.
- Install drivable waterbars on all grades exceeding 15% as directed by the STATE.
- Remove all waste/garbage materials resulting from operations.

Final Road Maintenance Requirements (Spur 1 – dirt portion):

- Grade and shape roads.
- Install waterbars and establish ditch outs as directed by the STATE.
- Block Spur 1 in manner that allows ATV access in 2 locations (beginning of new construction and near the junction with Spur 1A) approved by the STATE.
- Remove all waste/garbage materials resulting from operations.

Final Road Maintenance Requirements (18-7-13 Road):

- Grade and shape road and Landing areas.
- Pull ditches and clean culvert catch basin and inlets (if present).
- Apply patch rock as directed by the STATE.
- Remove all waste/garbage materials resulting from operations.
- Arrange a field inspection with the BLM prior to completion of operations.

EXHIBIT D

FULL BENCH AND END-HAUL REQUIREMENTS

POINT TO POINT	STA. TO STA.	CONTAINMENT - SIDECAST	WASTE AREA LOCATION	WASTE AREA TREATMENT
Spur 1 (New	5+57 to 12+38	1,	3	1,2
Construction)	All other portions	2,3	3	
Spur 1A		2,3	3	1,2

Full Bench and End-Haul Areas General Requirements

Sidecast includes any road generated excess excavation material which is not essential as part of the road prism, is not compacted, and is below the roadway. Material shall not be sidecast unless specified above.

Clearing and grubbing debris shall be end-hauled.

When controlled blasting is required, it shall be accomplished using timing devices, delayed charges, low intensity shots, or other suitable means to contain material within the road prism.

Containment/Sidecast

- (1) Full: No excavated material remains below the road.
- (2) Normal/Incidental: The amount of excavated material lost over the outside edge of the road shall not exceed 1 foot in depth.
- (3) Sidecast: Material shall be spread evenly below the road so that it does not build up behind trees, snags or other debris, and shall not exceed 3 feet in depth.

Any amount of material exceeding the containment requirements shall be removed by whatever means necessary and end-hauled to a designated waste area.

Waste Area Location

- (1) As shown on Exhibit A and as marked in the field.
- (2) Setback from slope break shall be a minimum of 20 feet horizontal measurement.
- (3) All waste locations must be approved by STATE prior to depositing material.

Waste Area Treatment

- (1) Deposit at waste area, spread evenly, compact, and provide adequate drainage.
- (2) Pile woody debris separate from other waste material.

EXHIBIT E ROAD SURFACING

BASE ROCK	SIZE OF ROCK	DEPTH	YARDS/ STATION	ROAD	STATION TO STATION	# STA	VOLUME (cu yds)
	3"-0"	4"	22	Spur 1	0+00 to 1+85	1.85	41
	3"-0"	4"	22	Spur 1A	0+00 to 20+74	20.74	456
	1½"-0"	3"	17	Spur 1	1+85 to 2+35	0.50	17
САР	ROCK						
	1½"-0"	4"	22	Spur 1A	0+00 to 20+74	20.74	456
	1½"-0"	4"	22	Spur 1	0+00 to 1+85	1.85	41
	DINGS le width)						
	Jaw-Run	8"	44	Spur 1A	4+35	0.50	44
	Jaw-Run	8"	44	Spur 1A	21+24	0.50	44
	IRVE ENING				STATION	# PTS.	
	1½"-0""	4"	7.5	Spur 1A	4+35 and 16+74	2	15
	3"-0"	4"	7.5	Spur 1A	4+35 and 16+74	2	15
TURI	NOUTS		Yds/Point		STATION		
	1½"-0""	4"	12	Spur 1A	4+35 and 11+00	2	24
	3"-0"	4"	12	Spur 1A	4+35 and 11+00	2	24
TURNA	AROUND						
	1½"-0""	4"	12	Spur 1A	18+10	1	12
	3" -0"	4"	12	Spur 1A	18+10	1	12

Total approximate yards 1½" -0" = 558 Total approximate yards 3" -0" = 548 Total approximate yards Jaw-Run = 88

Subgrades shall be compacted and approved by the STATE prior to rocking. Approximate yards assumes construction during ideal weather conditions. Only clean, uncontaminated crushed rock counts towards depth measurement.

State Timber Sale Contract No. 341-12-68 Another Nelson

EXHIBIT E

ROCK ACCOUNTABILITY

PURCHASER shall obtain subgrade approval from STATE prior to rocking. Rocking shall be limited to periods when weather conditions are acceptable to STATE and when sediment will not enter streams. Additional surfacing needed because of construction season or construction practice is not included in the preceding ROAD SURFACING table, and shall be furnished at PURCHASER expense.

Rock accountability shall be determined by the following methods, as directed by STATE. STATE shall be given 24 hours' notice prior to rocking.

<u>Depth Measurement</u>. Rock shall be spread and compacted according to the depths specified in Exhibit D. Truck measure volumes are given, but shall not limit the amount of rock spread.

Depth shall be determined in the most compacted area of the surface cross section. The depth of compacted aggregates shall not vary more than 1 inch from the depth specified in the "Road Surfacing" table in Exhibit D. The average depth for each road segment shall be the specified depth or greater. If additional rock is required because of insufficient depth, the locations and volumes to be added shall be determined by STATE.

Rock tickets shall be turned in to the STATE weekly. However, rock depth measurements shall be used to determine contract compliance, not tons hauled.

State Timber Sale Contract No. 341-12-68 Another Nelson

EXHIBIT E

COMPACTION AND PROCESSING REQUIREMENTS

<u>Moisture Content</u>: Compaction must take place when moisture content of the materials being compacted is favorable for effective compaction as determined by STATE.

<u>Compaction Pass</u>: A pass is defined as traveling a road section forward and then backward over that same section.

<u>Subgrade</u>. Subgrade surfaces of the road segments listed below shall be graded and compacted prior to rocking. Compaction shall be accomplished by traveling all surfaces from shoulder to shoulder until the surface is smooth and hard and visible deformation ceases. At least 3 passes shall be made over the entire width and length of the road. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Subgrade shall be crowned at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
Spurs 1 and 1A. (rock surfaced)	Vibratory Roller (1)
Spur 1 (dirt surface)	Crawler Tractor (2)

<u>Fills</u>. Embankments and fills shall be placed in (approximately) horizontal layers not more than 8 inches in depth. Each layer shall be separately, and thoroughly, compacted. Compaction equipment shall be operated over the entire width of each layer until visible deformation of the layers ceases. At least 3 passes shall be made over the entire width and length of each layer.

Placing individual rocks or boulders with more depth than the allowed layer thickness shall be permitted, provided the embankment will accommodate them. Such rocks and boulders shall be at least 6 inches below the subgrade. They shall be carefully distributed and the voids filled with finer material, forming a dense and compacted mass. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
Spurs 1 and 1A.	Crawler Tractor (2)

<u>Crushed Rock</u>. The rock shall be uniformly mixed and spread in layers on the approved roadbed. Each layer of crushed rock shall be moistened or dried to uniform moisture content suitable for maximum compaction and compacted in layers not to exceed 6 inches in depth. When more than 1 layer is required, each shall be shaped and compacted before the succeeding layer is placed. Any irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing material until the surface is smooth and uniform. Each layer shall be compacted with a minimum of 3 passes over the entire width and length of the road until the surface is smooth and hard and visible deformation ceases. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Rock shall be compacted and processed during the same project period it is spread, unless otherwise approved in writing by STATE.

Rock shall be crowned at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

EXHIBIT E

COMPACTION AND PROCESSING REQUIREMENTS

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
Spurs 1 and 1A	Vibratory Roller (1)
Landings	Crawler Tractor (2)

Rock shall be crowned at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

COMPACTION EQUIPMENT OPTIONS

- (1) Vibratory Rollers. The drum shall have a smooth surface, a diameter not less than 48 inches, a width not less than 58 inches, and a turning radius of 15 feet or less. (*Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 VPM, corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 VPM. It shall be activated by a power unit of not less than 25 horsepower.) The vibratory roller shall be self-propelled and operated at speeds ranging from 0.9 miles to 1.8 miles per hour, as directed by STATE.
- (2) <u>Crawler Tractor: D-7 Caterpillar or equivalent, or larger.</u>

EXHIBIT E

CRUSHED ROCK SPECIFICATIONS

<u>Materials</u>. The material shall be fragments of rock crushed to the required size. The material shall be free from vegetation and lumps of clay. STATE may require screening and/or rejecting of materials utilized for production of crushed rock for the purpose of removing excess fine material.

<u>Quality and Grading Requirements</u>. The base material shall be rock. River gravel shall not be used. Crushed rock shall meet the grading requirements that follow; (Fracture of Gravel deleted).

Rock strength: for rock not produced from STATE quarries, the material from which base material is produced or manufactured shall meet the following test requirement for Aggregate Hardness - Test Method AASHTO T 96 35 percent Maximum.

For the purpose of crushing rock specified under the projects in Section 2610, "Project Work," PURCHASER shall utilize a three-stage rock crusher, or equivalent, unless otherwise approved by STATE.

The rock crusher shall be calibrated to produce rock as specified in this exhibit. Prior to the commencement of production crushing, PURCHASER shall sample, test, and provide rock test results meeting STATE specifications. STATE may then sample and test crushed rock for approval to proceed. PURCHASER shall take one sample of each 2,000 cubic yards of crushed rock material produced thereafter, using approved AASHTO sampling procedures. PURCHASER shall submit samples to a certified laboratory or shall perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures. Prior to testing, each sample shall be split, making one-half of the sample, with proper identification, available for testing by STATE. Each sample and the results of PURCHASER testing shall be made available to STATE within 24 hours of sampling. Any rock crushed prior to STATE approval to proceed shall not be credited to the required rock quantity. Any subsequent rock tests not meeting STATE specifications shall be reason for rejection of that portion of crushed rock produced after that test and shall not be credited to the required rock quantity. STATE may sample the crushed rock at any time during the operation. Results of STATE's tests shall prevail over all other test results.

EXHIBIT E

DURABLE CRUSHED ROCK SPECIFICATIONS

Grading Requirements

For 3/4"-0"	Passing Passing Passing Passing Passing Passing Passing	1" sieve 3/4" sieve 3/8" sieve 1/4" sieve No. 10 sieve No. 40 sieve	100% 90-100% 55-75% 40-60% 20-40% 8-16%
<u>For 1"-0"</u>	Passing Passing Passing Passing Passing Passing	1½ " sieve 1" sieve 1/2" sieve 1/4" sieve No. 10 sieve No. 40 sieve	100% 90-100% 55-75% 35-55% 15-35% 7-15%
For 1½"-0"	Passing Passing Passing Passing Passing Passing	2" sieve 1½" sieve 3/4" sieve 1/4" sieve No. 10 sieve No. 40 sieve	100% 90-100% 60-90% 30-50% 15-30% 7-15%
For 3"-0"	Passing Passing Passing Passing Passing Passing Passing	4" sieve 3" sieve 1½" sieve 3/4" sieve 1/4" sieve No. 10 sieve	100% 90-100% 60-90% 40-60% 20-40% 5-20%
For 4"-0"	Passing Passing Passing Passing Passing Passing Passing	5" sieve 4" sieve 2" sieve 3/4" sieve 1/4" sieve No. 10 sieve	100% 90-100% 60-90% 35-60% 15-35% 0-20%
For Jaw-Run	Passing Passing	6" sieve 3" sieve	100% 45-65%

CULVERT SPECIFICATIONS

All culvert materials shall be furnished and installed by PURCHASER, unless otherwise specified in the Contract.

Culverts shall be constructed of corrugated aluminized (Type 2) steel.

Aluminized (Type 2) steel culverts shall meet the requirements of AASHTO M-36-03¹.

Culverts shall be located according to the alignment and grade as shown on the Plan and Profile, and/or as staked in the field, or as specified in special instructions.

Cross drain culverts on road grades in excess of 3 percent shall be skewed at least 30 degrees from perpendicular to the road centerline, except that cross drain culverts at the low point of dips in roads shall not be skewed. Cross drains shall be skewed to fit the required culvert length to the road prism.

Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3 percent or greater than 10 percent.

The foundation and trench walls for all culverts shall be free from logs, stumps, limbs, stones, and other objects which would dent or damage the culvert. The culvert trench shall be excavated 3 culvert diameters wide to permit compaction and working on each side of the culvert. Tamping shall be done in 6-inch lifts, 1 culvert diameter each side of the culvert. Bedrock shall be excavated as required to provide a uniform foundation for the full length of the culvert.

A bedding of granulated material or crushed rock as specified shall be placed to provide a wide band of support and to transmit the load from above evenly over the entire length of the culvert for all stream crossing culverts.

Backfill shall consist of, crushed rock or job-excavated soil free of stumps, limbs, rocks, or other objects which would damage the culvert.

Transporting of the culvert shall be done carefully. Dragging or allowing free fall from trucks or into trenches shall not be permitted.

CULVERT SPECIFICATIONS

Minimum height of cover over top of culvert to subgrade when road is to be rocked shall be as follows: 12" for culverts 18" to 36". Minimum vertical cover for other designs shall be as specified by STATE.

Lengths of individual culvert sections shall be not less than 10 feet, unless otherwise provided for in special instructions.

The ends of each culvert shall be free of logs and debris which would restrict the free flow of water.

The intake end of relief culverts shall be provided with a sediment catching basin 3 feet in diameter at the bottom. The outlet end of any culvert which would allow water to erode embankment soil shall be provided with an energy dissipator, half round, or other approved slope protection device. Construct lead-off ditches away from culvert outlets where the slope gradients restrict the free flow of water.

Compaction by tamping utilizing a Vibratory Hand-Operated or Backhoe-Mounted Tamper is required for stream crossing culverts.

The intake ends of culverts in fills less than 3 feet to the top of the culvert shall be marked by driving steel posts within 6 inches of the downgrade side. Posts shall be painted with a rust-resistant paint and be a minimum of 5 feet long, with the spade driven 2 feet into the ground.

A manufacturer's certification that the product was manufactured, tested, and supplied in accordance with this specification shall be furnished to STATE upon request.

Following are the minimum standard gauges for steel culvert and coupling bands. Some culverts may require different gauges and may be found in the culvert listing.

	Steel Culvert	<u>Thickness</u>			Band Widths (")	
<u>Dia.</u>	<u>Gauge</u>	<u>Uncoated</u>	<u>Coated</u>	Band Gauges	<u>Annular</u>	<u>Helical</u>
12-15	16	(0.0598")	(0.064")	16	7	12
18-24	16	(0.0598")	(0.064")	16	12	12
30-36	16	(0.0598")	(0.064")	16	12	12
42	14	(0.0747")	(0.079")	16	12	12
48	14	(0.0747")	(0.079")	16	24	24
54	14	(0.0747")	(0.079")	16	24	24
60	12	(0.1046")	(0.109")	16	24	24
66-72	12	(0.1046")	(0.109")	16	24	24
78	12	(0.1046")	(0.109")	16	24	24
84	12	(0.1046")	(0.109")	16	24	24
90-120	12	(0.1046")	(0.109")	16	26	26

Culverts larger than 60" in diameter shall have (*3" x 1") corrugations.

CULVERT LIST

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	MATERIAL TYPE	GAUGE	ROAD SEGMENT POINT TO POINT	STATION
1	18	40	Aluminized	16	Spur 1 (jct w/ Spur 1A)	1+85
2	18	30	Aluminized	16	Spur 1A	3+30
3	18	30	Aluminized	16	Spur 1A	6+75
4	18	30	Aluminized	16	Spur 1A	12+60
5	18	30	Aluminized	16	Spur 1A	15+62

ACSP = Aluminized, CPP = Polyethylene, GCSP = Galvanized

TYPICAL HALF ROUND CULVERT INSTALLATION

(no scale)

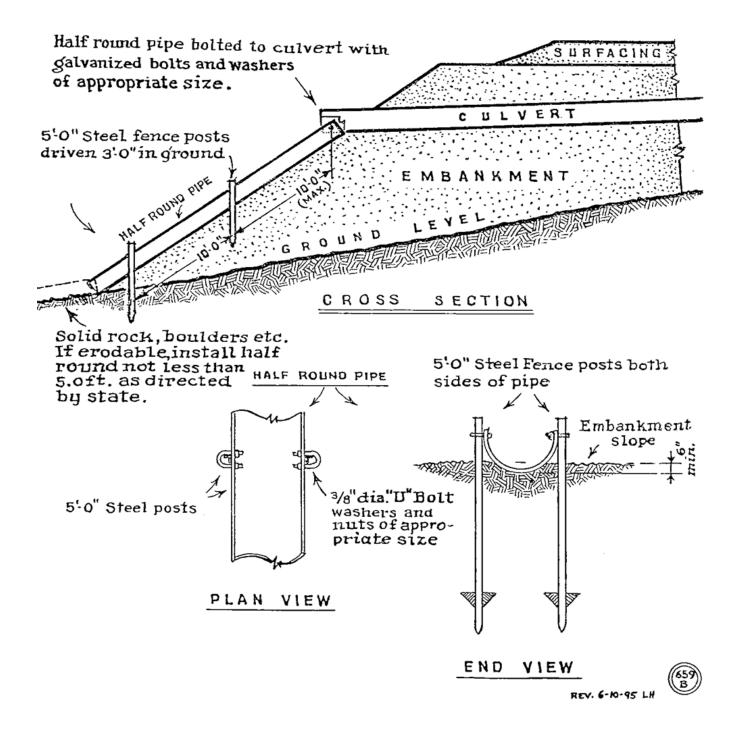
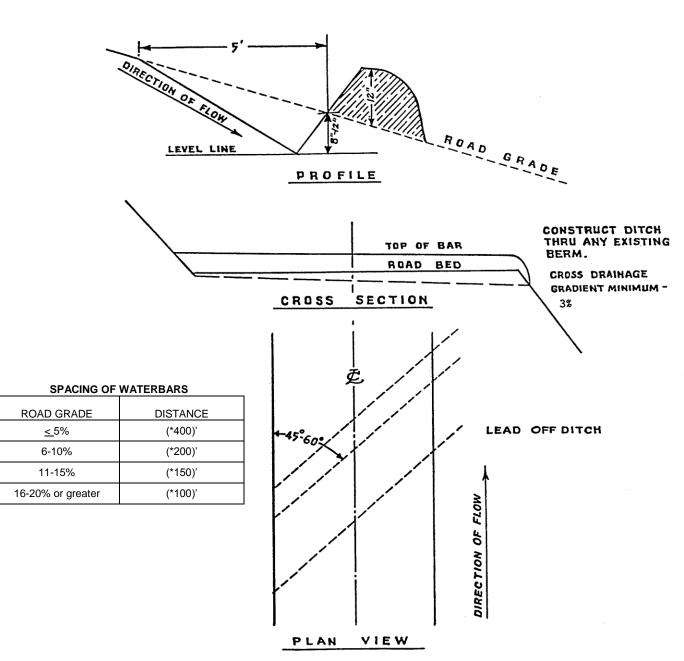


EXHIBIT G
WATERBAR SPECIFICATIONS



WATERBAR SPECIFICATIONS FOR CROSS DITCHING #298

EXHIBIT H

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Description of Work to be Done

PURCHASER shall expend 35 hours of track-mounted excavator (with a clam shell attachment unless otherwise approved by the STATE) time on the Timber Sale Area for the purpose of "in unit" brush and slash piling as specified in Exhibit H and as directed by STATE. Landing and firewood piling does not count toward the required 35 hours.

Areas designated for work under the contract shall be treated according to the specifications given below:

<u>Clearing</u> - Brush, logging Slash, and other debris shall be cleared from planting sites and piled in windrows or piles, so that 80 percent or more of the soil organic layer is exposed. All woody vegetation other than trees is defined as brush in this exhibit.

<u>Piles</u> - shall be located at least 75 feet apart and shall be no more than 75 feet long. Piles shall be located inside the project area designated for piling and shall be more than 75 feet from any edge or standing conifer tree. Piles shall be built to a height of 8 to 10 feet and then covered to prevent water from reaching the Slash. Each pile shall be covered with 100 square feet of 4 mil thick plastic provided by the PURCHASER. Additional woody debris shall be piled on top of the covered piles to complete the piling, as directed by STATE. Logs and chunks which are suitable for firewood shall be piled separately from Slash, near roads and Landings and alongside the road in locations designated by STATE.

Conifer Trees - shall be saved, unless otherwise directed by STATE.

Skid Trails - shall be ripped to a depth of 12 inches.

<u>Protective Measures</u> - shall comply with Oregon Forest Practice Rules issued per ORS 527.610 to 527.992. Examples of protective measures are: (1) waterbarring tractor trails where necessary to prevent runoff toward streams; (2) not windrowing in streams or streamways; and (3) leaving Stream Buffers along designated streams.

Work specifications may be modified or waived only upon written notice from STATE.

EXHIBIT H

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Equipment Type, Equipment Operation, and Conduct of Work

The specifications given below are requirements for equipment type, equipment operation, and conduct of work under the contract.

<u>Shovel</u> - shall be a track-mounted machine with a ground-pressure rating of not more than <u>6.8</u> PSI and a net horsepower of $\underline{85}$ or more. The machine shall be capable of a minimum horizontal reach of $\underline{26}$ feet and a minimum vertical reach of $\underline{16}$ feet.

In Unit Piles:

• Excavator-shovel: Bucket shall be a hydraulically controlled, 4- to 5-foot wide, "clamshell-style bucket with rake arms," with a 360-degree continuous rotation, and tooth length on rake arm shall be greater than 14 inches long, unless otherwise approved in writing by STATE. "Clamshell-style bucket with rake arms" shall be hydraulically controlled to operate bucket in a horizontal position (fixed position: positive control) for piling Slash.

Landing piles may use the following equipment:

• Log Loader – shovel: Bucket shall be a hydraulically controlled, 4- to 5-foot wide, "clamshell-style bucket with rake arms," with a 360-degree continuous rotation, and tooth length on rake arm shall be greater than 14 inches long, unless otherwise approved in writing by STATE. "Clamshell-style bucket with rake arms" shall be hydraulically controlled to operate bucket in a vertical position (free swinging) for piling Slash.

<u>Operator</u> - must be experienced in operating similar equipment on land clearing operations, be able to operate the equipment proficiently, and pile the debris on the area as directed by STATE.

<u>Support</u> - including transport, other equipment, replacements, supplies, maintenance, and repairs shall be furnished as required to complete work; and shall be furnished without cost to STATE, other than as agreed under the contract terms.

<u>Work Scheduling</u> - work shall be accomplished only during dry weather conditions, and started within 14 calendar days after completion of yarding activities on the Timber Sale Area. Operations shall provide for continual operation until contract work is completed, unless interrupted by poor weather, fire closures, or other uncontrollable circumstances. Equipment breakdowns shall be repaired without undue delay, and provision shall be made for replacement of equipment to prevent prolonged delays. Piling operation shall not be allowed when operations might damage sites or affect stream flows. Any exception to these instructions must be authorized in writing by STATE.

STATE Representative - shall provide directions for the conduct of work according to specifications.

EXHIBIT I

ROCK QUARRY TEST DRILLING REQUIREMENTS

- 1) PURCHASER shall notify STATE a minimum of two weeks prior to beginning any operations. A STATE Representative shall be present during test drilling to monitor results, issue instructions, determine test hole locations and depths. The representative also shall certify hours of operation or acceptance of work when required under contract.
- Work scheduling shall provide for continual operation until contract work is completed, unless interrupted by poor weather, fire closures, or other uncontrollable circumstances. Equipment breakdowns shall be repaired without undue delay, and provision shall be made for replacement of equipment to prevent prolonged delays. Testing operations shall not be allowed from October 1 to April 30, or during any other period when operations might damage sites or affect stream flows. Other seasonal restrictions apply, refer to Section 2455. Any exception to these instructions must be authorized in writing by STATE.
- 3) The self-contained hydraulic rock drill shall be a crawler-type in the 20,000 pound class or greater, with a minimum penetration rate of 100 feet per hour while drilling a 3"-5" bore hole, in overburden, fractured rock and solid rock.
- The operator must be experienced in operating hydraulic rock drills on rock test drilling operations, be able to operate the drill proficiently, and operate in the area as directed by STATE. If STATE determines that an operator(s) or other personnel is/are not operating in a proficient and efficient manner, STATE considers the operator(s) or personnel not approved and not acceptable and may require the PURCHASER to do one or more of the following measures:

Replace operator(s) and/or personnel; Replace equipment;

- 5) Support including transport, other equipment, replacements, supplies, maintenance, and repairs shall be furnished as required to complete work; and shall be furnished without cost to STATE.
- 6) Test holes shall be drilled to determine mass attitudes of rock strata, rock quality/type, rates of drill advancement, depths of overburden and other pertinent information. The test holes will be abandoned using bentonite chips at the PURCHASER's cost.
- 7) Each test hole shall be staked and assigned an individual number. Test holes shall be drilled for various depths in vertical, horizontal and/or other directions, as directed by STATE.
- 8) STATE may elect to change the test drilling locations at the quarry sites. However, no more than a total of 22 hours of hydraulic rock drill time will be utilized.
- 9) Access road construction is required (Project #5). All routes and location of access roads shall be flagged and approved by STATE prior to construction. Cutting of trees may be necessary for access for test drilling. Trees shall be approved by STATE, properly accounted for prior to felling, decked as directed by STATE, and shall remain the property of the STATE.
- 10) Upon completion of test drilling at each site, waterbar all test equipment access roads and reestablish drainage ditches, as directed by STATE.
- 11) Record Keeping. PURCHASER shall keep an accurate log of operating time (exclusive of standby time, repair delays, down time, etc.) and invoices for all equipment, and submit it to the STATE Representative upon request. STATE shall provide the form for recording the required log. If the log is determined by STATE to not be complete or accurate, then PURCHASER will not get credited for all or a portion of the work, as determined by STATE.

EXHIBIT I

TEST DRILLING REQUIREMENTS (cont.)

- 12) <u>Site Priority.</u> Test drilling shall be completed prior to September 30, 2012.
- Penalty. A penalty of \$250 per day shall be assessed for any 8-hour work day that either equipment, personnel, or supplies are not operating or available due to failure to supply approved and acceptable equipment, personnel, or supplies in order to continue the project for priority sites one and two in an efficient and progressive manner.
- 14) <u>Credit Rates.</u> Rates credited toward completion of the project will be applied for periods of active operation on the project work only and exclusive of initial move in of equipment or supplies. The method of crediting PURCHASER will be determined by applying the following credit rates for equipment and mobilization.

Hydraulic drill (3"-5" bore hole), and operator. \$235 per operating hour.

15) <u>Credit for Project Work.</u> Final credit for Project No. 6 shall not exceed \$ 6,955 per Section 2630, "Credit for Project Work," in the Timber Sale Contract. STATE may adjust the credit in Section 2630 in the event that the work is completed prior to using all available credit rates.

OREGON DEPARTMENT OF FORESTRY Western Lane District

Written Plan

Another Nelson Timber Sale 341-12-068

Portion of Section 14, T17S, R8W, W.M., Lane County, Oregon

Protected Waters: Medium Type F (Leibre Creek) and Small Type F (un-named tributary).

Activity: Cable yarding within 100 feet of medium and small Type F streams for approximately 580 feet (Leibre Creek), and 700 feet (un-named tributary).

Protection Measures:

- No cutting will take place within approximately 100 feet of the stream (either side) except for any cable corridors that may be needed or for safety purposes.
- Any tree requiring to be felled for either corridors or safety reasons that is within the stream RMA (beyond the Timber Sale Boundary signs) will be felled away from the stream if safe to do so and left where they fall.
- Corridors through the RMA, if necessary, will be at least 100 feet apart (within the RMA).
- All lines will be re-spooled and then restrung for each new corridor.

Prepared By: Dan Menk

Forester

Date: December 30, 2011

PART IV: OTHER INFORMATION

State Timber Sale Contract No. 341-12-68 Another Nelson

NOTICE OF TRANSFER OF STATE TIMBER

Instructions 629:-Form-301-010 Complete Section 1. Mark the box which applies to you/your company in Section 2. Complete Section 3 and obtain signatures. **SECTION 1** , state timber sale purchaser (Transferor) _____, sold, exchanged or otherwise transferred to _____, (Transferee) state timber originating from State Timber Sale Contract No. _____ Transferee hereby certifies that they: Will not export the unprocessed state timber which is the subject of this transaction; (a) Will not sell, transfer, exchange or otherwise convey the unprocessed timber which is the subject of this (b) transaction to any other person without first obtaining a like certification from that person; and Are not prohibited by OAR's 629-31-005 through 045 from purchasing state timber or logs directly from (c) the State Forester, or this is a sale of Western Red Cedar for domestic processing. **SECTION 2** Have not exported unprocessed timber originating from private lands in Oregon in the last 24 months. This is a sale of hardwood logs for domestic processing. This is a sale of Western Red Cedar for domestic processing. This is a sale of pulp logs or cull logs processed at domestic pulp mills, domestic chip plants or other domestic operations for the purpose of conversion of the logs into chips. **SECTION 3** The parties understand that falsely entering into this certification, or failure to comply with the terms of this certification is a violation of the Forest Conservation and Shortage Relief Act of 1990 and OAR Chapter 629. Division 31, and is subject to any and all penalties contained therein. Transferor: Transferee: Signed Signed Title Title Dated Dated [Note: For the purpose of this form, the definition of unprocessed timber is the same as in OAR 629-31-005]

Notice of Transfer of State Timber Form 301-010.doc/Jaz B (SF)

State Forester 2600 State Street Salem, OR 97310

Mail To: