

KT-CT.2.1 - UTILIZATION AND REMOVAL OF INCLUDED TIMBER (09/2004)

CT.2(b) notwithstanding, bucking lengths shall be varied to ensure that the maximum sawlog piece that may be left is 2 feet and that the maximum small roundwood piece that may be left is 5 feet.

Where cut trees are identified by paint, the Contractor shall leave stumps of a minimum height to avoid obliterating paint markings that indicate individual trees to be cut.

KT-CT.3.0# - PAYMENT UNIT BOUNDARIES (09/2004)

The boundaries of Payment Units are designated as shown in the following table. The trees used for boundary designation are not to be cut.

See Table KT-CT.3.0# - Payment Unit Boundaries, Payment Unit Boundary Designation Table

KT-CT.3.0# - Payment Unit Boundaries Table

Payment Unit Boundary Designation Table

<u>Payment Unit</u>	<u>Paint Color</u>	<u>Designation</u>
All	Orange	-Boundary line trees are marked at eye level with three (3) horizontal slash marks and a spot at ground level with the eye level marks facing into the interior of the Payment Units. -Yellow boundary posters with sale name and Payment Unit are stapled to boundary trees and face outward at locations where the Payment Unit boundary intersects or coincides with roads.

Sample

KT-CT.3.5.5# - INDIVIDUAL TREES (09/2004)

CT.3.5 notwithstanding, the following individual trees are Marked with paint above and below stump height:

Cut Tree Marking. Individual trees to be cut are Marked in all or parts of the following Payment Units. Areas of cut tree marking are shown on the Contract Area Map with the symbol CTM.

**See Table KT-CT.3.5.5# - Individual Trees, Cut Tree Marking**

Leave Tree Marking. Individual trees to be left uncut are Marked in all or parts of the following Payment Units. Unmarked trees meeting Utilization Standards in AT.2 shall be cut. Areas of leave tree marking are shown on the Contract Area Map with the symbol LTM.

**See Table KT-CT.3.5.5# - Individual Trees, Leave Tree Marking**

KT-CT.3.5.5# - INDIVIDUAL TREES Table

Cut Tree Marking.

1/ Payment Unit(s)
1, 5
4

2/ Paint Color
Blue
Yellow

Leave Tree Marking.

1/ Payment Unit(s)
2, 3, 6

2/ Paint Color
Orange

Sample

KT-ET.4 - PAYMENTS NOT RECEIVED (08/2012)

(a) Payments are due and payable on the date of issue indicated on the bill for collection. When a payment for timber cut and other charges is not received at the location designated by Forest Service by the date specified in the bill for collection, Contracting Officer will suspend all or any part of Contractor's Operations until payment or acceptable payment guarantee is received. Other charges include, but are not limited to:

- (i) Slash disposal and road maintenance deposits;
- (ii) Cooperative work at rates established by specific agreement under ET.2.1.8;
- (iii) Damages pursuant to JT.4;
- (iv) Road use fees;
- (v) Restoration of downpayment pursuant to ET.2.2;
- (vi) Periodic payments pursuant to ET.2.1.3;
- (vii) Extension Deposits pursuant to ET.2.1.7; and
- (viii) Other mandatory deposits.

(b) Failure to pay amounts due by the date specified in the bill for collection shall be considered a breach under JT.3. The 30-day notice period prescribed therein shall begin to run as of the end of business on the date specified for receipt of payments. If the performance or payment is guaranteed by surety bond, the surety will receive a copy of the written notification of breach. Demand will be made on the surety or other institution providing the guarantee or bond instrument for immediate payment 10 days after issuance of written notification of the breach.

(c) Pursuant to the Debt Collection Improvement Act of 1996, as amended, if payment is not received by Forest Service within 15 days after the date of issue indicated on the bill for collection:

- (i) Simple interest shall be assessed at the Current Value of Funds Rate as established by the Secretary of the Treasury. Interest will begin to accrue as of the date of issue indicated on the initial bill for collection.
- (ii) Debtors will be assessed administrative charges, in addition to the delinquent amount due. Administrative charges are those additional costs incurred by the Government in processing, handling, and collecting delinquent debts.
- (iii) A penalty charge of six (6) percent per annum will be assessed on any portion of a debt delinquent more than 90 days. This penalty charge is in addition to interest and administrative charges under paragraphs (c)(i) and (c)(ii). The penalty charge shall accrue from the date of issue indicated on the bill for collection and shall be assessed on all outstanding amounts, including interest and administrative costs assessed under paragraphs (c)(i) and (c)(ii).
- (iv) Payments will be credited on the date received by the Federal Depository or Collection Officer designated on the bill for collection.

(d) Forest Service remedies for Contractor's failure to make payment for timber cut and other charges when due, except for accrual of interest, suspension of all or any part of Contractor's Operations, and administrative offset, shall be stayed for so long as:

- (i) A bona fide dispute exists as to Contractor's obligation to make such payment and
- (ii) Contractor files and prosecutes a timely Claim.

KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (09/2004)

Contractor shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

**See Contract Road Maintenance Requirements Summary Table.**

Sample

KT-FT.3.1# - Contract Road Maintenance Requirements Summary Table

**Contract Road Maintenance Requirements Summary Table**

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To											
NA	NA	NA	NA										

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

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		1030	1040								
905	906	Hwy 186	0.6	D	P								
906	905	908	0.4	D	P								
908	906	916	0.7	D	P								
916	908	Cty Rd 54	1.8	D	P								

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

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		1040									
905	906	Hwy 186	0.6	D									
906	905	908	0.4	D									
908	906	916	0.7	D									
916	908	Cty Rd 54	1.8	D									

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

**INCLUDED SPECIFICATIONS**

Activity No.	Activity Specification Title
1030	Surface Blading (Grader)
1040	Spot Surface Course Placement

KT-FT.3.2# - ROAD MAINTENANCE DEPOSIT SCHEDULE (08/2012)

Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Contractor's performance of road maintenance, Contractor shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Contractor's commensurate use of each road listed in the Road Maintenance Plan in KT-FT.3.1#.

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

The Required Deposits for Forest Service work in lieu of Contractor performance are \$.40 per CCF for recurrent maintenance, and \$.47 per CCF for deferred maintenance.

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

Deposit Made To	Rate	Unit of Measure
N/A		

KT-GT.2.2.3# - PROTECTION OF SPECIAL AREAS (09/2004)

The Contractor shall not conduct logging operations within the boundaries of the following areas: Protected Special Area inside Payment Unit 3 and all payment units 1-6 after 11/1/2018. Special Areas are shown on the Contract Area Map with the symbol SA.

Logging shall be permitted in the following areas only during the following specified times: N/A

The locations of these areas are shown on Contract Area Map and are marked on the ground by the following means: Special Area inside unit 3 has a white painted boundary. All other special areas (payment units 1-6) have orange painted boundaries.

KT-GT.2.3.1 - PROTECTION OF LAND SURVEY MONUMENTS (09/2004)

The Forest Service shall appropriately designate on the ground all known surveying monuments, section corners and other corner accessories. Bearing trees shall be posted by the Forest Service with at least one bearing tree sign and a 6-inch red paint band around bole of tree about 6 feet above ground.

If any known monuments, corners or accessories are destroyed, obliterated, or damaged during the Contractor's Operations, the Contractor may make Required Deposits (16 U.S.C. 572) at rates stated in the Monument Restoration Schedule listed below. Such deposits shall be the minimum rates charged, and will be deposited in a special account. Minimum rates shall be adjusted upwards to cover actual costs incurred on all restoration projects.

The Contractor and the Forest Service may agree in writing on actual cost for partial restoration projects. If the Contractor destroys, obliterates or damages Land Survey Monuments or accessories other than those listed in said schedule, Forest Service shall establish rates commensurate with the Contractor's liability.

Monument Restoration Deposit Schedule

Type of Monument-----	Deposit
Exterior F.S. Survey Monument-----	\$100.00/monument
Interior F.S. Survey Monument-----	\$100.00/monument
Witness Tree____-	\$75.00/witness tree
Exterior Property Lines-----	\$750.00/mile

KT-GT.3# - SCHEDULE FOR RELEASE OF PAYMENT UNITS (09/2004)

Unless otherwise agreed in writing, no more than 2 Payment Units may be operated at one time. Upon completion of all contract requirements in a Payment Unit, an additional Payment Unit may be released for cutting if by such release the maximum number of Payment Units specified above, which may be operated at one time, is not exceeded.

The sequence for cutting Payment Units shall be: N/A

KT-GT.4.1.4# - DIRECTIONAL FELLING OBJECTIVES (09/2004)

Unless otherwise agreed in writing, in areas shown on Contract Area Map as subject to this provision, the Contractor shall control the direction of fall of Included Timber by wedging, jacking, lining, or other appropriate methods. Methods used shall result in felling trees away from protected Special Area in Payment Unit 3 and away from sign in Payment Unit 5. Areas requiring directional felling are shown on the Contract Area Map with the symbol of DF.

N/A Unless otherwise agreed, the location of tractor skid roads shall be approved in advance of felling operations.

KT-GT.5# - STREAMCOURSE PROTECTION (09/2004)

The following are required in addition to the Standard Provisions under GT.5:

Applicable Fords may be permitted with written authorization in locations containing rock or rock-fragment bottoms or where streams can be protected with corduroy or gravel.

Applicable All vehicles are prohibited within a N/A Marked boundary along either side of Streamcourses that are shown on the Contract Area Map. Vehicles will be allowed to cross Streamcourses only at locations designated by the Forest Service or as essential to construction or removal of culverts or bridges.

Sample

**KT-GT.6.0.1# - REVEGETATION PLAN AND SPECIFICATIONS (09/2004)**

Where soil has been disturbed by Contractor's operations and vegetation is needed to minimize erosion, Contractor shall take appropriate measures according to the following specifications or other agreed stabilization measures:

Temporary road cuts, fill slopes, and shoulders shall be seeded and fertilized within 15 days of construction during the seeding season(s).

Temporary road surfaces, landings, and skid trails shall be seeded when not to be used for a period exceeding 60 days during the seeding season(s).

Temporary road cuts, fill slopes, and other soil disturbance within 25 feet slope distance of a streamcourse shall be seeded and mulched within 3 days of the disturbance.

Exposed soil on temporary roads, skid trails and landings no longer needed for the Contractor's operations shall be seeded and fertilized within 30 days of discontinued use during the seeding season(s). Soil tilling to cover seed may be required under dry site conditions.

Bare areas or roads with soil compaction will require harrowing, disking or ripping. Fertilizer shall be applied and mixed thoroughly with the soil prior to seeding. Due to compaction, it may be necessary to till the soil to a depth of 6 inches or more.

The seeding season(s) shall be during the inclusive listed below, unless otherwise agreed.

See KT-GT.6.0.1# - Revegetation Plan and Specifications, Seeding Season(s) Table

The following kinds and amounts per acre of seed and fertilizer shall be applied, unless otherwise agreed:

See KT-GT.6.0.1# - Revegetation Plan and Specifications, Fertilizer and Seed Table

Applicable Mulch at the rate of 4029 (On moderate to steep slopes or wherever erosion potential is high, broadcast clean straw (wheat, barley or other grain) mulch at 2-3 inches deep over disturbed area (or one 74 pound bale per 800 square feet). On severe slopes secure mulch with punching, netting or matting). pounds per acre shall be applied. The Forest Service will identify the areas where mulch is required in addition to those specified elsewhere in this contract. Hay, straw, pine straw or shredded bark or other mulch acceptable to the Forest Service may be used as mulching material.

Applicable The Forest Service shall agree to the timing of the seeding operations.

Not applicable Seeding operations shall not begin without the presence of a Forest Service representative.

Not applicable Other revegetation specification: N/A

If the Forest Service performs such work as provided under a written cooperative agreement (16 U.S.C. 572), the Contractor shall make the following deposit:

See KT-GT.6.0.1# - Revegetation Plan and Specifications, Cooperative Deposit Table

KT-GT6.0.1# - Revegetation Plan and Specification Table

Seeding Season	From Date	To Date
Season 1	February 1	March 31
Season 2	April 1	August 31
Season 3	September 1	November 30
*Native Warm Season Grass	April 1	June 15

\*In wildland areas where short-term erosion potential is low and native understory integrity is critical, a Native Warm Season Grass mix may be used during the dates identified above. These areas will be identified by the Forest Service.

		Season 1	
Fertilizer	Pounds/Acre	Seed	Pounds/Acre
13-13-13	350lbs/acre	Partridge Pea	15
		**Annual Ryegrass	**10

		Season 2	
Fertilizer	Pounds/Acre	Seed	Pounds/Acre
13-13-13	350lbs/ac	Brown Top Millet	25
		Iron-Clay Cowpeas	20
		Grain Sorghum OR Black Oil Sunflower	10 or 1
		**Annual Ryegrass	**10

		Season 3	
Fertilizer	Pounds/Acre	Seed	Pounds/Acre
13-13-13	350/acre	Winter Wheat	50
		Oats	50
		Crimson Clover (inoculated) OR Ladino Clover (inoculated)	10 or 1
		**Annual Ryegrass	**10

\*\*Use where you have moderate to high erosion potential, add to mix.

If the Forest Service performs such work as provided under a written cooperative agreement (16 U.S.C. 572), the Purchaser shall make the following deposit:

<b>Lump Sum Amount</b>
\$632.00

<b>Amount Per Unit of Volume</b>
N/A

**KT-GT.6.3.2# - TEMPORARY ROADS (09/2004)**

**Applicable** Unless otherwise agreed in writing, Temporary Road construction shall not be scheduled to occur outside the seeding season(s) listed in KT-GT.6.0.1#.

**Applicable** Unless otherwise agreed in writing, Temporary Road construction shall not be scheduled to occur outside the Normal Operating Season(s) listed in AT.13.

The location and clearing widths of all Temporary Roads shall be agreed to and all timber within the clearing limits shall be paid for before construction is started. Temporary roads shall follow the general contour insofar as practical with maximum grades not to exceed 10 percent for lengths up to 100 feet. Construction shall include frequent broad-based dips or breaks in grade as necessary to remove runoff from the road. Clearing width shall not exceed that needed for safe and efficient operations, and the travel way shall not exceed 12 feet except at turnouts and landings. Crossings shall be located perpendicular to any stream or drainage.

Concurrent with Temporary Road construction, the Contractor shall install straw or hay bales, silt fence or brush/slash barriers at the base of the fill along Temporary Roads adjacent to Streamcourses and at other sensitive areas shown on Contract Area Map per the following requirements:

**See Table KT-GT.6.3.2# - Temporary Roads, Silt Barrier Table**

At Streamcourse crossings, cut and fill slopes and other disturbed areas within 25 feet slope distance of the Streamcourse shall be protected by seeding and mulching **Not Applicable**

As necessary to attain stabilization of roadbed and cut and fill slopes of Temporary Roads, the Contractor shall employ such measures as outsloping, revegetation, mulching, drainage dips, water spreading ditches and silt barriers.

Unless otherwise agreed, cut banks and fill slopes shall be sufficiently sloped to facilitate revegetation.

The Contractor shall place and maintain the following depth of gravel or crushed stone on all Temporary Roads at the following locations:

**See Table KT-GT.6.3.2# - Temporary Roads, Gravel Requirements Table**

Contractor shall maintain all erosion control structures such as silt barriers, water-spreading ditches and broad based dips in a functional condition during Contractor's Operations. Contractor shall stabilize and close to vehicular traffic all Temporary Roads prior to periods of inactivity.

Except for Temporary Roads to remain open under GT.6.3.1, after a Temporary Road has served Contractor's purpose, the Contractor shall give notice to the Forest Service and shall remove bridges and culverts, eliminate ditches, out-slope roadbed, remove ruts, remove outside berms by pulling the material back onto the road surface, effectively block the road to normal vehicular traffic, and build cross ditches and water bars as staked or otherwise marked on the ground by Forest Service unless agreed otherwise in writing. When bridges and culverts are removed, associated fills shall also be removed to the extent necessary to restore channel to natural size, slope and bottom, and to permit normal maximum flow of water and protection of adjacent resources.

KT-GT.6.3.2# - Temporary Roads, Silt Barrier Table

Side Slope Percent	Distance From Streamcourse
NA	NA

Location	Distance (feet)	Percent Grade	No. Inches Of Gravel or Crushed Stone
Approaches to surfaced roads for a distance back from the surfaced road.	50	NA	4 inches of #4 or #3 gravel
Steep grades of short distances	30	10%	4 inches of #4 or #3 gravel
Wet or erosive prone soils	As Needed	NA	4 inches of #4 or #3 gravel
Dips, moist sites, erosive prone soils, and fills over culverts	As needed	NA	4 inches of #4 or #3 gravel

KT-GT.6.5.1 - SKID TRAILS AND FIRE LINES (09/2004)

At locations where terrain or other conditions prevent practicable construction of cross ditches and water-spreading ditches, the Forest Service may designate that ground debris consisting of root mat, humus, leaf and needle litter, or slash (as defined in GT.7#) existing in the immediate area be placed on skid trails or fire lines. At such locations, the Contractor shall place sufficient ground debris to slow and disperse runoff. At other locations the Forest Service and the Contractor may agree to use ground debris, singly or in combination with other methods, to control erosion.

KT-GT.6.6.1 - CURRENT OPERATING AREAS (09/2004)

Where logging or road construction is in progress but not completed, unless otherwise agreed, the Contractor shall, before beginning a period of inactivity anticipated to last 30 days or more, and before any expected period of seasonal precipitation or runoff, remove all temporary log culverts, and construct cross drains, drainage ditches, dips, berms, culverts or other facilities needed to control erosion.

**KT-GT.7# - SLASH TREATMENT (09/2004)**

Slash is defined as all vegetative debris resulting from the Contractor's operations, including limbs, tops, cull logs, bark, wood chunks, pushed-out stumps, damaged brush, and damaged residual trees. Tops from felled trees and all trees to be removed from roads, landings, or other construction clearings shall be completely felled and not left leaning or hanging in other trees. Slash associated with construction of Specified Roads is construction slash subject to treatment according to road construction specifications.

Other Ownership. The Contractor shall conduct operations so that slash does not enter non-National Forest System lands, as shown on Contract Area Map. In event slash is deposited on other ownership, the Contractor shall immediately remove such slash. The Contracting Officer may agree in writing to other treatment requirements if the Contractor provides a written slash disposal agreement between the Contractor and the landowner.

Roads and Other Clearings. Along roads available for public use the Contractor shall immediately remove slash from traveled surfaces, shoulders, and drainage facilities. Other slash along roads available for public use and all slash along roads not available for public use shall be removed from the clearing limits within four days after adjacent skidding or yarding to each landing is complete. In areas where skidding or yarding is delayed or interrupted, slash shall be removed within ten days after being created.

Trails open to public use shall be kept free of slash. Slash within the clearing limits of powerlines, telephone lines, pipelines, and similar clearings shall be removed within ten days after adjacent skidding or yarding to each landing is substantially complete.

Slash removed from roads and other clearings shall be scattered outside the clearing limits, or otherwise disposed of as agreed. The time requirements for completion of slash removal may be changed by written agreement, except where immediate removal is required.

Other Treatment Areas. The Contractor shall complete slash treatment in other areas as described below. The Forest Service and the Contractor shall jointly agree to a schedule for completion of such slash treatment, which shall be included in the Contractor's Annual Operating Schedule required under GT.3.1.

Applicable At or adjacent to log landings, delimiting areas, and similar areas of slash accumulation within all Payment Units, concentrations of slash greater than 3 feet in height and 5 feet in length, measured at greatest distances, shall be lopped and scattered to lie within 2 feet of the ground or scattered back over the unit or main skid trails having exposed soil.

Slash treatments described below are required at locations shown on the Contract Area Map by the following symbols:

See Table KT-GT.7# - Slash Disposal, Slash Disposal Requirements Table

KT-GT.7# - Slash Disposal, Slash Disposal Requirements Table

Map Symbol	Title	Treatment
ST	Seed Tree Areas	<p>In Payment Units 4 and 5 all created slash shall not be touching the bole of all residual trees left for future RCW cavity trees, shelter and seeding purposes. Created slash shall not be accumulated to a height of greater than 3 feet within a 5 foot radius of the bole of all unmarked residual trees left for future RCW cavity trees, shelter and seeding purposes.</p>
SD	Slash Disposal	<p>Within Payment Units 4 and 5 all slash accumulated at landings and delimiting areas shall be piled, unless it is agreed in writing that slash can be used to cover areas having exposed soil, such as skid trails, for erosion control purposes. Piling will be accomplished with a machine, of such size, that will cause minimal damage to the residual timber and with an acceptable brush piling blade. Piles will meet the criteria identified below.</p> <ul style="list-style-type: none"> <li>• Piles shall be in the immediate vicinity of the landing or delimiting area.</li> <li>• Piles shall be reasonably compact and free of soil.</li> <li>• Piles shall be located at least 50 feet from residual timber and 100 feet from protected streamcourses.</li> <li>• Piles shall not be more than 200 feet long and 200 feet wide.</li> <li>• If more than one pile is needed in an area, they should be no more than 100 feet apart.</li> <li>• All objects that extend for more than 5 feet in any direction from the pile profile will be cut off and returned to the pile.</li> </ul>
ssss	Slash Treatment Zone	<p>Within Payment Unit(s) 1, 2, 3, 4, 5 and 6 all created slash 100 feet from the edge of FS 905, FS 906, FS 908, FS 916 and County Rd 54 shall be removed and scattered further into other areas of the payment unit. Tops and limbs which are lost on the way to the landing site due to normal felling, skidding and/or yarding operations are not required to be yarded but to be slashed to within 2 feet above the ground.</p>

KT-GT.8 - MEASURING (09/2004)

The estimated quantity of timber has been determined by tree measurement in accordance with the methods described in the Timber Cruising Handbook (FSH 2409.12), a copy of which may be examined in the Forest Supervisor's or the Ranger's Offices.

KT-GT.9# - STEWARDSHIP PROJECTS (09/2004)

Performance of stewardship projects shall be in accordance with the following specifications.

**Stewardship Projects**

Sample

**SECTION I - GENERAL SPECIFICATIONS SPECIFIC TO ALL STEWARDSHIP PROJECTS**

**Pre-work Conference**

Prior to commencement of work on any of the Stewardship projects, a meeting, requested by the Forest Service Representative (FSR), will be attended by the Contractor or Contractor's Representative(s), Sub-Contractor(s) and other delegated Forest Service representatives. The meeting will be held at a time and place mutually agreeable to the Contractor and Forest Service for the purpose of discussing work schedules, quality control, and review of the specifications for the mandatory and optional stewardship projects. At this meeting the Contractor will provide written delegations of authority for his/her Contract Representative and Field Representatives. Contractor will provide in writing an annual operating schedule of anticipated major activities and needs for logging including timber and completing stewardship projects. The annual operating schedule will present a practicable work progress schedule showing the order in which work on each stewardship project will be started and completed.

**Performance and Acceptance**

Prior to initial operations and after shutdowns of 10 days or more, Contractor's representative shall notify Forest Service 2 days, excluding weekends and Federal holidays, before any operations begin on Contract Area. Unless otherwise agreed to in writing, the Contractor shall complete the mandatory and agreed to optional stewardship projects during the specified planned operational period and by the required completion dates as specified in Table B. Specifications specific to each stewardship project are included below.

Where there are multiple treatment units within a stewardship project, the Contractor may not start work in another treatment unit until all work has been completed and accepted by the Service Work Inspector (SWI) or unless otherwise agreed to in writing.

At completion of work in a stewardship project, the Contractor will notify the SWI that the required work has been completed to standard and is ready for final inspection. Upon final inspection by the SWI the Contractor will be given written notice of acceptance. Upon written notice of acceptance, the Contractor is then authorized to move to the next work unit identified in the annual operating schedule.

Payment/credit will be based upon written acceptance of all required work in a stewardship project by the SWI and actual acres treated. The contractor will submit final invoice identifying actual acres treated.

**Scope Of Contract**

Contractor will furnish all labor, materials, equipment, tools, transportation, supervision, supplies, except Forest Service Furnished Items and perform all work required to meet the technical specifications of each of the following stewardship projects: 001 - NNIS Herbicide Treatments.

**General Access**

Forest roads accessing most stewardship projects are accessible by 4WD vehicles during specified planned operational period. However, during heavy rains, roads may become impassable and walk-ins of ½ mile or more to reach treatment areas could be expected.

Some stewardship projects are accessed by old woods roads that are currently closed with earth barriers and/or water bars. Earth barriers and water bars can be removed for access. The Contractor will restore, at original locations, any water bars or earth barriers removed to original condition prior to acceptance of work.

Some roads, needed to gain access to stewardship projects, may have fallen trees and slash that restrict or limits access. Inaccessibility due to fallen trees, slides, or washouts on roads may or may not be corrected by the Forest Service prior to Contractor's start of work.

**Protection of Improvements**

The Contractor shall protect all trails, roads, road ditches, and other improvements in and around stewardship projects. Roads used shall be left in the same relative condition found prior to Contractor's use.

Contractor shall avoid damage to other improvements such as, but not limited to, gates, signs, culverts, bridges, fences, utility poles, and survey and property markers. If damaged, the Contractor will be required to repair them or pay fair market value to the Forest Service to have them repaired or replaced.

**Method of Measurement**

Acres of treatment in the stewardship projects were/will be determined by use of a Global Positioning System (GPS) and are considered to be actual acreages. Boundaries are identifiable on the ground

by natural or man-made features such as roads, meadows, timber edge, fire lines, painted unit boundaries, flagged boundary line, etc. They may also be marked with orange boundary paint, which identified old timber harvest boundaries. The Forest Service will clearly mark out the actual acres to be treated prior to the treatment.

**Safety**

Occupational Health and Safety Administration (OSHA) standards for safety and safety equipment fall within the jurisdiction and enforcement of OSHA, not the Forest Service.

Contractor's operations shall facilitate Forest Service's safe and practical inspection of Contractor's operations and conduct of other official duties on Contract Area. Contractor has all responsibility for compliance with safety requirements for Contractor's employees.

When Contractor's operations are in progress adjacent to roads opened to public travel, the Contractor shall furnish, install and maintain temporary traffic controls signs, which will provide adequate warning of hazardous or potentially hazardous conditions associated with Contractor's operations. The signs used shall be as specified in the "Manual on Uniform Traffic Control Devices for Streets and Highways".

**Protection**

Contractor shall, both independently and in cooperation with Forest Service, take all reasonable and practicable action to prevent and suppress fires resulting from Contractor's operations and to suppress any forest fire on Contract Area. Contractor's independent initial fire suppression action on such fires shall be immediate and shall include the use of all necessary personnel and equipment at Contractor's disposal on Contract Area or within the distance of Contract Area stated in AT.10.

**Description and Location - Ref: Table I A and Stewardship Project Maps**

Units to be treated are located within the boundaries of the Tuskegee Ranger District, National Forest in Alabama, Macon County, Alabama. Maps of specified stewardship project work locations are included within and are herefore made part of this contract (Standard Provision JT2.2 - Contract Documents).

**TABLE I A**

Stewardship Project	Location	Acres	Treatment
<b>Mandatory Stewardship Work Items</b>			
001	Refer to Stewardship Project Maps	68	NNIS Herbicide Treatment
<b>Optional Stewardship Work Items</b>			

**Site Visit**

Prospective Bidders are urged and expected to inspect sites where services are to be performed and to satisfy themselves regarding all general and local conditions that may affect the cost of contract performance, to the extent that the information is reasonably obtainable. In no event shall failure to inspect the site constitute grounds for a claim after contract award.

**Inspection and Acceptance of Services**

Upon Contractor's written request and assurance that work has been completed, Forest Service shall perform an inspection within 5 days, excluding weekends and Federal holidays, so as not to delay unnecessarily the progress of Contractor's operations. Such a request may be for acceptance of:

- a) Any reasonable portion of Specified Road/area listed in the Schedule of Items;
- b) Specific requirements on a Payment Unit (such as logging, stewardship project operations, slash disposal, erosion control, or snag felling); or
- c) All contract requirements on a Payment Unit.

Forest Service may perform such inspections without request from Contractor. Within 2 days of inspection, excluding weekends and Federal holidays, Forest Service shall furnish Contractor with written notice either of acceptance or of work remaining to be done.

In the event that Forest Service is unable to make such inspection within 5 days of Contractor's request, Contractor shall be notified in writing of necessity for postponement and time when inspection can be made. The same final approval procedure shall be used at the end of Contractor's construction period on any completed portion of road.

When all contractual work of Contractor has been accepted for any Payment Unit or stewardship project area, it shall be eliminated from Contract Area on written notice of either party to this contract

**TABLE I B**

<b>CONTRACTUAL TIME &amp; PLANNED OPERATIONAL PERIOD</b>			
<b>Stewardship Project</b>	<b>Project Acres</b>	<b>Completion Date</b>	<b>Planned Operational Period</b>
<b>Mandatory Stewardship Work Items</b>			
001-NNIS Herbicide Treatment	68	September 30, 2019	June 1 - September 30
<b>Optional Stewardship Work Items</b>			

**SECTION II - INDIVIDUAL SPECIFICATIONS FOR STEWARDSHIP PROJECTS**

**STEWARDSHIP PROJECT 001 - NNIS HERBICIDE TREATMENT**

(Reference Stewardship Project Map NNIS Herbicide Treatment)

**Scope and Description of Work**

The scope of these work items is to treat non-native invasive plant species (NNIS) with the use of herbicide.

Areas of treatment include roadsides and interior forest. The areas consist of stands with variable densities of trees, stems, and brush. Vegetation to be treated varies but the most common include: mimosa (M), privet (PV), bicolor lespedeza(BC), sericea lespedeza (S), kudzu (KZ), autumn olive (AO), multiflora rose (& other rosa species)(ROSE), and nepalese browntop (NP). Other invasive plant species may be located during treatment and will then be treated. The vegetation is variable, ranging from very thick to scattered target species.

Areas of treatment include 68 acres of mandatory work items reference Table I B.

**Forest Service-Furnished Items**

No Forest Service-Furnished items will be provided.

**Contractor-Furnished Items**

The contractor will furnish all equipment and materials needed to complete the bid item work. Materials needed include herbicide, dye, surfactant, machete, backpack sprayers, and mixing containers.

Low-pressure backpack sprayers (i.e.; Solo 475 or similar) with a 3.5 gallon capacity or greater and equipped with an applicator for direct foliar use tip size 2503 is required. No ground disturbing equipment is allowed. When authorized by the SWI, an all-terrain vehicle (ATV) or utility vehicle (UT) equipped with a low pressure tank and a wand applicator with the tip size as listed above, may be used in certain treatment areas.

Contractor will self-inspect and provide documentation to SWI on amount of herbicide, mix used, areas covered, etc.

**Time of Treatment**

June 1, - September 30.

These areas are to be treated one growing season after harvest

Planned operational period for all work items can be referenced in Table I B.

**No herbicide mixture shall be applied during a rain**, nor shall the direct foliar treatment be permitted following a rain while the vegetation to be treated is still wet.

No work will be allowed on days of rain or drizzle, of wind speeds exceeding 15 mph, humidity less than 20%, or when temperature exceeds 98 degrees F. Work time will be discontinued 4 hours prior to rain beginning to allow for proper drying time of herbicide on vegetation. After rain stopped, work will resume when SWI determines that the vegetation has dried sufficiently to the point where runoff amounts will not occur.

**Treatment Methods**

Direct Foliar Spray Treatment

Workers will use backpack sprayers to perform the direct foliar spraying. Nozzle tip size will be TP 2503 only. No other tip size will be allowed unless authorized by the SWI. Contractor will provide the backpack sprayers equipped with TP 2503 only. The crews will walk the areas and apply herbicides to the foliage of only the target vegetation that is shoulder height or smaller. To apply, direct the spray onto the target foliage, making sure the growing tips are covered. Herbicide mixture should be sprayed to the point of moistening the foliage and not to the point that there is runoff. When authorized by the SWI, an ATV or UT equipped with a low pressure tank and a wand applicator with the tip size as listed above may be used in certain treatment areas.

**Herbicide Mixtures and Application Rates**

All NNIS will be treated with a mixture of 4% aquatic labeled glyphosate, 0.5% aquatic labeled surfactant, and red or blue dye at a visible rate.

Vegetation to be treated

All NNIS as identified by the Forest Service

All stems, clumps of stems, grass, and other nonnative invasive plants that are shoulder height and less shall be treated using a direct foliar spray application with the correct mixture of aquatic labeled glyphosate.

Vegetation not to be treated

Contractor shall not spray or allow herbicide mixture to get on non-target vegetation.

Trees painted with red blazes or with signs designating the US Forest Service Boundary.

Trees, stems or areas designated on the ground with ribbon by the Forest Service.

**Calibration of Equipment**

The contractor shall be responsible for making certain that each herbicide applicator is applying the specified volume of herbicide solution. Each applicator shall be checked DAILY by the contractor.

**Maintenance Requirements**

Equipment will be maintained in an operable condition capable of delivering the full dosage required to control tree stems.

**Handling of Herbicide Containers**

All containers used for herbicide by the contractor shall be accounted for. They will be returned to the Forest Service Work Center after being emptied, for quality control and accountability. The contractor shall not transfer herbicide into any container other than those original containers.

Herbicide shall not be left on the job sites overnight.

**Private Land and Residences**

No herbicide will be broadcast within 100 feet of private land or 300 feet of a private residence unless the landowner agrees to closer treatment.

**Permits and Responsibilities for the Work**

The contractor shall, without additional expense to the Forest Service, be responsible for obtaining any necessary licenses, certifications and permits, and for complying with any applicable Federal, State, and municipal laws, codes, and regulations in connection with the use of pesticides under this contract.

**Training**

Contractor will instruct each applicator in the safe use of the herbicide(s) to be applied so as to protect themselves and the environment. The suggested areas to be covered are safe handling and proper application, transportation, storage, and disposal of the containers as shown herein.

**Transportation of Herbicides**

Contractor is legally responsible for the safe transportation of herbicides.

Transportation of herbicides used on this contract shall be in accordance with label instructions and the general approved and accepted procedures for safe transportation of herbicides. The following precautions should be taken by the contractor to prevent spills, accidents, injury or theft:

- Transport herbicides in the cargo compartment of a truck or other vehicle away from the passenger compartment.
- No personnel should ride in the back of a vehicle with herbicide.
- All herbicide containers should be tied down or otherwise constrained to prevent breakage or spillage.
- Pesticides should not be transported in the same compartment with food or clothing.
- If any herbicide is spilled in or from the vehicle, it should be cleaned up at once.
- Unlocked herbicides should not be left unattended.

**Handling and Application of Herbicides**

Personnel handling herbicides should wear protective clothing and/or equipment as recommended by the herbicide manufacturer. Herbicide shall not be applied or equipment cleaned outside of areas designated by SWI.

Following these simple rules will help make the use of the herbicide safer for everyone:

- Read the safety information on the label.
- Wear the proper protective clothing.
- Keep first aid equipment and supply of clean water readily available, including soap and eye wash equipment meeting OSHA regulations.
- Don't work alone.
- Haul only the needed amount of herbicide.
- Stand upwind from the spray projects to avoid contaminating yourself.
- Keep the container below eye level when pouring to avoid splashing or spilling any herbicide on the face or into the eyes.
- If herbicides are spilled, stop immediately, wash out eyes if contaminated and remove contaminated clothing. Wash the skin thoroughly with soap and water. Speed is essential. Once clean, put on clean, protective clothing and equipment and clean up the spill. See a physician as appropriate.
- Keep measuring cups and other equipment clean and properly stored when not in use.
- Wash hands carefully before relieving yourself, eating or smoking.

**Herbicide Spills**

Contractor shall be responsible for all costs of damages, cleanup, and decontamination should an herbicide spill occur.

SWI shall be notified immediately of any herbicide spill or accident.

**SECTION III - INSPECTION, MEASUREMENT AND ACCEPTANCE FOR STEWARDSHIP PROJECTS**

**STEWARDSHIP PROJECT 001 - NNIS HERBICIDE TREATMENT**

**Inspection**

Contractor's Self-Inspection - The Contractor shall be responsible for supervising his/her crew and self-inspecting his/her own work to insure compliance with contract specifications throughout the contract.

Unit Inspection Procedure - The Forest Service will make periodic visits to the work site while work is in progress, to assure that the Contractor is familiar with contract specifications and that work is progressing satisfactorily.

Upon completion of a unit and at the Contractor's request, the SWI may inspect the unit for compliance with specifications or use the Contractor's inspection and a few random plots for inspection of the units.

The Contractor's inspection will be made on a series of 1/50 th acre plots (16.7ft. radius) on all units. Sufficient plots will be taken for a minimum one-half (1/2) percent sample of the total area of the unit being inspected. This is equivalent to one plot per four acres. To ensure that adequate sampling of the Contractor's work is taken, a minimum of 10 plots will be taken in each unit. Plot inspections will be documented in a table format. Table III A details the number of plots required for inspection based on acres in the unit.

**TABLE III A**

# Acres	# Plots
1-45	10
45+	1 plot per 4 acres

- 1) Plot Location- Plots will be located by establishing plot lines on the unit to be inspected with the lines and plots equally spaced so that coverage of the entire unit is obtained. The initial line will be randomly selected with other plot lines equally spaced from this initial line. A map of the inspection plots established by the contractor will be provided to the Forest Service for quality control inspections.
- 2) Inspections to determine percent acceptable treatment will be taken only after the Contractor has completed all of the work in an area and has notified the Forest Service that the work in the unit is complete.
- 3) At each 1/50 th acre plot the inspector will evaluate the plot area and record efficacy of treatments.
- 4) The inspection consists of two parts on each plot area:
  - a) Vines, forbs, brush, grasses, etc under 5 feet tall (foliar treatments).

The inspection procedure is explained below.

Foliar spray evaluation (all brush, vines, forbs, trees < 5' tall)

Estimate the percentage of the area in the 50<sup>th</sup> acre plot (16.7 foot radius) that shows signs of adequate foliar treatment. Signs may include: wilting, leaf rolling, chlorosis, fading or mortality.

EXAMPLE: A thirty (30) acre unit is inspected with the following results:

Plot #	% treated
1	100%
2	60%
3	90%
4	75%
5	80%
6	70%
7	100%
8	90%
9	80%
10	70%
UNIT TREATED AVERAGE%	81.5%

The formula used for calculating work quality is as follows:

$$\text{Unit Treated Average\%} = (\% \text{ treated} / \# \text{ plots}) \times 100$$

From Table III A, a thirty acre unit requires that 10 plots are taken for inspection.

**Each Unit or area must score at or above 80% to be accepted**

Unsatisfactory Site Preparation

No credit will be made for the unit until the work is brought up to contract specifications.

**Acceptance**

Acceptance of the work will be determined by visual inspection and review of the Contractor's inspection form and will be based on adherence to the specifications for each work item. At least 80 percent acceptable Injection quality and 80 percent foliar treatment quality is required.

No stewardship credit will be earned until all NNIS herbicide treatments have been completed and treatment area has been accepted as being completed to contract specifications.

**Means of measurement**

Forest Service will randomly review the manner in which the Contractor is conducting the Quality Control Program by both reviewing the Contractor's records and/or observing actual performance.

**Performance Requirements Summary**

- 1) Acceptable Quality Level for Foliar Treatments - At least 80 percent treatment quality coverage

KT-HT.2.0.1 - TRUCK, TRACTOR, AND POWER SAW MUFFLERS (09/2004)

Effective muffler systems installed by the manufacturer as standard equipment shall be maintained on exhausts of trucks, power saws and other internal combustion engines used in the Contractor's Operations.

KT-HT.2.0.2# - FIRE FIGHTING EQUIPMENT (09/2004)

When the Forest Service advises the Contractor that local fire weather conditions are becoming critical, the Contractor shall keep with gasoline chain saws at all times a shovel and fire extinguisher and take precautionary measures requested by the Forest Service. The Contractor shall act as custodian of fire fighting equipment furnished by the Forest Service. Equipment shall be stored in sealed boxes provided for this purpose and shall be transported to locations in the immediate vicinity of current logging and milling operations on Contract Area. The Forest Service shall be reimbursed for any damage to or loss of fire fighting equipment furnished by the Forest Service, which occurs on Negligently-Caused Fires or as a result of using equipment for unauthorized purposes.

KT-HT.2.2.1 - EMERGENCY FIRE PRECAUTIONS (09/2004)

The Contractor shall limit or restrict operations in accordance with the Fire Danger Rating schedule shown below. The Forest Service will determine Fire danger ratings by using the National Fire Danger Rating System.

The Forest Service shall notify the Contractor of predicted fire danger that may limit or restrict operations. In all cases, the actual weather elements shall govern over the predicted weather elements in determining Fire Danger. Fire danger ratings are based on a severity index from A (low) to E (highest).

Fire Danger Rating:	Limitations or Restrictions on Contractor Operations:
A to C:	Normal fire precautionary operations
C+ to D (Very High)	Forest Service may suspend any or all of Contractor's operations.
E (Extreme)	In addition to above restrictions, internal combustion engines or other spark-producing equipment shall not be operated within any areas of the timber sale without specific written approval by the Forest Service.

KT-IT.2.1.2 - MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

The term of this contract may be adjusted when a drastic reduction in wood product prices has occurred in accordance with 36 CFR 223.52. The Producer Price Index used to determine when a drastic reduction in price has occurred is stated in AT.17. Contractor will be notified whenever the Chief determines that a drastic reduction in wood product prices has occurred. If the drastic reduction criteria specified in 36 CFR 223.52 are met for 2 consecutive calendar quarters, after contract award date, Contracting Officer will add 1 year to the contract term, upon Contractor's written request. For each additional consecutive quarter such a drastic reduction occurs, Contracting Officer will, upon written request, add an additional 3 months to the term during Normal Operating Season, except that no single 3-month addition shall extend the term of the contract by more than one year. Contracting Officer must receive Contractor's written request for a market-related contract term addition before the expiration of this contract.

No more than 3 years shall be added to a contract's term by market-related contract term addition unless the following conditions are met:

(i) The contract was awarded after December 31, 2006; and

(ii) A drastic reduction in wood product prices occurred in at least ten of twelve consecutive quarters during the contract term, but not including the quarter in which the contract was awarded.

For each qualifying quarter meeting the criteria in paragraphs (i) and (ii) of this provision, the Forest Service will, upon the Contractor's written request, add an additional 3 months during the normal operating season to the contract, except no single 3-month addition shall extend the term of a contract by more than 1 year.

In no event shall a revised contract term exceed 10 years as a result of market-related contract term addition.

Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

KT-IT.2.3.1# - ADDITION OF NET GROWTH (09/2004)

In event of Contract Term Extension, net growth shall be added to all uncut designated timber, except on the partially cut Payment Units exempt from redetermined rates under DT.1. On the partially cut Payment Units to which redetermined rates apply under DT.1, the Forest Service shall determine the approximate percentages of area remaining uncut. These percentages shall be applied to the original estimates of timber quantity in each Payment Unit to determine the approximate quantity of designated timber remaining in each Payment Unit. The growth percentages listed herein shall be applied to these estimated remaining quantities to obtain total net growth of uncut timber in the partially cut Payment Units. For both un-entered and partially cut Payment Units, the determination of volume subject to addition of growth shall be made as of 45 days prior to the original Termination Date shown in AT.12 with no adjustment for any timber subsequently Released for Cutting or cut and removed prior the effective date of Contract Term Extension. Growth shall be calculated on the basis of total number of full growing seasons from 6/1/2016 until the Termination Date, including any Contract Term Adjustment.

Applicable annual growth percents by species or species groups and products are:

**See Table KT-IT.2.3.1# - Addition of Net Growth, Percent Growth Table**

Payment for the additional growth in partially cut Payment Units for which growth is applicable shall be made prior to the effective date of Contract Term Extension.

KT-IT.2.3.1# - Addition of Net Growth, Percent Growth Table

<b>Species or Species Group</b>	<b>Product</b>	<b>Annual Growth Percent</b>
Pine	Sawtimber	4
Hardwood	Sawtimber	4
Pine	Small Roundwood	8
Hardwood	Small Roundwood	3

Sample

**SECTION 1. GENERAL**

Purchaser's maintenance responsibility begins (1) after purchaser performs Prehaul Maintenance on a road listed in the Road Maintenance Requirements Schedule; or (2) for all other roads, when Purchaser begins to use the road. Occasional travel by Purchaser's light vehicles, prior to beginning of construction clearing or logging operations in the area accessed by the road, does not constitute beginning of use. Purchaser is not required to perform routine maintenance during periods of inactivity. During periods of inactivity, Forest Service will perform maintenance only as required to meet its needs.

The Purchaser shall maintain roads, commensurate with the Purchaser's use, in accordance with the Road Maintenance Requirements Summary and Road Maintenance Specifications. Performance of road maintenance work by the Purchaser may be required prior to, during, or after each period of use. The timing of work accomplishment shall be based on the Purchaser's operating schedule under Standard Provision BT6.31.

If the Purchaser elects to use different roads than those listed in the Road Maintenance Requirements Summary, the Contracting Officer or designee shall determine the Purchaser's commensurate share of road maintenance and/or revise road maintenance deposits.

Unless the Contracting Officer or designee agrees in writing otherwise, prehaul maintenance shall be completed on any portion of road prior to hauling on that portion.

The Purchaser shall attend to the following situations as they occur and concurrently with sale operations: remove slides, fallen timber and other obstructions and overhanging brush obstructing road sight distance. Excess material resulting from any maintenance activity shall not be placed at locations where it will wash into streams.

The Forest Service shall prepare a revised Road Maintenance Requirements Schedule to reflect changes in the original haul route.

**SECTION 2. ROAD MAINTENANCE DEFINITIONS**

Wherever the following terms are used in the Road Maintenance Specifications, the meaning shall be:

Base Course. Material placed on the Subgrade to distribute concentrated wheel loads.

Berm. Curb or dike constructed to prevent Roadway runoff water from discharging onto embankment slope.

Borrow. Select Material taken from designated borrow sites.

Crown, Inslope, and Outslope. The cross slope of the Traveled Way to aid in drainage and traffic maneuverability.

Culverts. A conduit or passageway under a road, trail, or other obstruction. A culvert differs from a bridge in that it is usually entirely below the elevation of the Traveled Way.

Drainage Dip. A dip in the Traveled Way which intercepts surface runoff and diverts the water off the Traveled Way. A Drainage Dip does not block the movement of traffic.

Drainage Structures. Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, downdrains and downpipes.

Lead-off Ditches. A ditch used to transmit water from a Culvert, Drainage Structure or Drainage Dip outlet to the natural drainage area.

Maintenance Activity. Items of work leading to the minor restoration and upkeep of a road and necessary to sustain the road's anticipated traffic.

Material. Any substance specified for use in the performance of the work.

Prehaul Maintenance. Road maintenance work to be accomplished prior to the roads use. Roads receiving prehaul maintenance shall be shown on the Sale Area Map.

Roadbed. The portion of a road between the intersection of Subgrade and sideslopes, excluding that portion of the ditch below Subgrade.

Roadside. A general term denoting the area adjoining the outer edge of the Roadway.

Roadway. The portion of a road within the limits of excavation and embankment.

Shoulder. That portion of Roadway contiguous with Traveled Way for accommodation of stopped vehicles, for emergency use, and lateral support of Base and Surface Course, if any.

Slide. A concentrated deposit of materials from above or on backslope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated ravelling.

Slough. Material eroded from the backslope which partially or completely blocks the ditch, but does not encroach on the Traveled Way so as to block passage of traffic.

Slump. A localized portion of the Roadbed which has slipped or otherwise become lower than that of the adjacent Roadbed and constitutes a hazard to traffic.

Subgrade. Top surface of Roadbed upon which Base Course or Surface Course is constructed. For roads without Base Course or Surface Course, that portion of Roadbed prepared as the finished wearing surface.

Surface Course. The Material placed on the Base Course or Subgrade to enhance traction, distribute concentrated wheel loads and resist abrasion and the effects of climate. Surface Course may be referred to as surfacing.

Traveled Way. That portion of Roadway, excluding Shoulders, used for the movement of vehicles.

Turnouts. That portion of the Traveled Way constructed as additional width on single lane roads to allow for safe passing of vehicles.

Waterbar. A dip in the Roadbed which intercepts surface runoff and diverts the water off the Roadway. A Waterbar is not designed to be traversable by logging trucks.

**SECTION 3. ROAD MAINTENANCE REQUIREMENTS SCHEDULE**

**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications								
	From	To										
NA	NA	NA	NA	NA								

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

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications							
	From	To		1030	1040						
905	906	Hwy 186	0.6	D	P						
906	905	908	0.4	D	P						
908	906	916	0.7	D	P						
916	908	Cty Rd 54	1.8	D	P						

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

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications							
	From	To		1040							
905	906	Hwy 186	0.6	D							
906	905	908	0.4	D							
908	906	916	0.7	D							
916	908	Cty Rd 54	1.8	D							

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

**SECTION 4. ROAD MAINTENANCE ACTIVITY SPECIFICATIONS**

**INCLUDED SPECIFICATIONS**

Activity No.	Activity Specification Title
1030	Surface Blading (Grader)
1040	Spot Surface Course Placement

**ACTIVITY 1030 - SURFACE BLADING (GRADER)**

DESCRIPTION

1.1 Surface blading is keeping a native or aggregate surfaced Roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the Crown, Inslope or Outslope of the Traveled Way, Turnouts, and Shoulder; repairing Berms; blending approach road intersections; and cleaning bridge decks, Drainage Dips, and Lead-off Ditches. This work shall be completed with a motor grader.

REQUIREMENTS

3.1 Surface blading shall be performed before, during, and after Purchaser's use as often as necessary to facilitate traffic and proper drainage.

3.2 The surface blading shall preserve the existing cross-section. Surface irregularities shall be eliminated and the surface left in a free-draining state and to a smoothness needed to facilitate traffic. Surface Course Material which has been displaced to the Shoulders or Turnouts shall be returned to the Traveled Way. The blading operation shall be conducted to conserve surface Material and to provide for a thorough mixing of the Material being worked.

3.3 On native surfaced roads, Material generated from backslope Sloughing, and ditch cleaning may be blended with the surface Material being worked. On aggregate surfaced roads this Material shall not be blended with Surface or Base Course Material unless agreed otherwise.

3.4 Roadway backslopes shall not be undercut.

3.5 Drainage Dips and Lead-off Ditches shall be cleaned and maintained to retain the existing line, grade, and cross-section.

3.6 Intersecting roads shall be bladed for a distance of 50 feet to assure blending of the surfaces.

3.7 Rocks or other Material remaining on the Traveled Way after the final pass that are 4 inches in diameter or larger shall be removed. The unsuitable Material shall be disposed of by sidecasting unless agreed otherwise.

3.8 Material resulting from this activity shall not remain on or in structures, such as Culverts, cattle guards, ditches and Drainage Dips.

3.9 Material resulting from this activity, plus any accumulated debris, shall be removed from bridge decks and the deck drains opened.

**ACTIVITY 1040 - SPOT SURFACE COURSE PLACEMENT**

DESCRIPTION

1.1 Spot surface course placement includes subgrade preparation, furnishing, spreading and shaping Materials in accordance with the Requirements.

MATERIALS

2.1 Surface course Material will be in accordance with the Requirements, 3.2.

REQUIREMENTS

3.1 Subgrade Preparation. Prepare subgrade to receive surface course Material at locations as designated on-the-ground by the Forest Service on roads listed below. Prepare the subgrade by shaping the Roadbed to approximately the original cross-section and consistent with adjacent sections.

3.2 Furnish and spread Material at spot locations designated on the ground by the Forest Service as follows.

Road Number	Road Name	Pre Haul / During Haul	Type Material	Quantity (Tons)
905	Adcock	During Haul	#4 or #5	25
906	Perry	During Haul	#4 or #5	25
908	Harris	During Haul	#4 or #5	25
916	Howard	During Haul	#4 or #5	50

3.3 Variations. The purchaser will be required to furnish weight or volume tickets to the Forest Service for the amount of surface course material placed. When it is mutually agreed that all or part of the surface course Material is not needed, the estimated cost of surfacing not placed shall be charged to the Timber Sale Account in accordance with BT8.31.