

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE INTEGRATED RESOURCE CONTRACT (Applicable to Contracts with Measurement before Harvest)		Name of Contractor	
National Forest Ottawa	Ranger District Ontonagon	Region Eastern	Contract Number
Contract Name Flash Stewardship		Award Date	Termination Date 09/30/2019

The parties to this contract are The United States of America, acting through the Forest Service, United States Department of Agriculture, hereinafter called Forest Service, and _____ hereinafter called Contractor.

Unless provided otherwise herein, Forest Service agrees to sell and permit Contractor to cut and remove Included Timber and Contractor agrees to purchase, cut, and remove Included Timber and complete required stewardship projects.

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the award date.

UNITED STATES OF AMERICA

Two Witnesses:^{2/}

(Name)

(Address)

(Name)

(Address)

By: _____
Contracting Officer

(Title)

By: _____
(Contractor) ^{3/}

(Title)

(Business Address)

I, ^{4/} _____, certify that I am the _____ Secretary of the corporation named as Contractor herein; that _____ who signed this contract on behalf of Contractor, was then _____ of the corporation; that the contract was duly signed for and in behalf of the corporation by authority of its governing body, and is within the scope of its corporate powers.

CORPORATE SEAL ^{5/}

Contract Name: Flash Stewardship

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INSTRUCTIONS:

1/ If Contractor is a corporation, state a "corporation organized and existing under the laws of the State of _____" and specify the State; if Contractor is a partnership, state a "partnership consisting of _____" and specify the names of each partner; and if Contractor is a sole proprietor doing business under an assumed name, state "(n) individual doing business under the name of _____ City of _____, State of _____."

2/ The signatures and addresses of two witnesses are required if Contractor is other than a corporation.

3/ If Contractor is a co-partnership, the signatures should be: XYZ Company, by John Doe, a member of the firm. If Contractor is a corporation, form of signature should be: XYZ Company, by John Doe, President (or other officer or agent) and the seal of the corporation must be impressed or indicated.

4/ The certificate must be completed if Contractor is a corporation.

5/ For companies incorporated in States that require a corporate seal, if the corporation has no corporate seal that fact shall be stated, in which case a scroll or adhesive seal shall follow the corporate name.

EXAMPLE 1/

Subcontractor Certification
Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion

Contract Name: _____
National Forest: _____

The prospective subcontractor (participants in lower tier covered transactions) certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this contract by any Federal department or agency.

Where the prospective subcontractor is unable to certify to any of the statements in this certification, such prospective subcontractor shall attach an explanation to this proposal.

Name of Subcontractor: _____
Business Address: _____

_____ Date _____ Signature

1/ It is Contractor's responsibility to have subcontractors complete this certification and to maintain a file of completed certifications. This certification does not need to be returned to the Forest Service, except at the written request of the Contracting Officer.

Contract Name: Flash Stewardship

Contract No:

AT.0 - SPECIFIC CONDITIONS. The following conditions apply to the indicated portions of Division BT - Standard Provisions issued September 2004.

AT.1 - Location and Area, applicable to BT.1

This Contract Area of 732 acres more or less is located in:

T49N-R35W, S.1,11,12, 13 and 14 Baraga County

AT.2 - Volume Estimate and Utilization Standards, applicable to CT.1, CT.2, CT.4, and GT.4

Species	Product	Estimated Quantity *	Unit of Measure	Minimum Specifications				
				Merchantable Tree		Piece Required to be Removed		
				Diameter Breast High (d.b.h.) (inches)	Number of Minimum Pieces per Tree	Length (feet)	Diameter Inside Bark at Small End (inches)	Net Scale in % of Gross Scale
Mixed Conifer	Sawtimber	2.00	CCF	9.0	1	8	7.6	40
Mixed Hardwood	Sawtimber	153.00	CCF	11.0	1	8	9.6	50
Red & White Pine	Sawtimber	25.00	CCF	9.0	1	8	7.6	40
Aspen	Pulpwood	3,973.00	CCF	5.0	1	8	4.0	70
Jack Pine	Pulpwood	84.00	CCF	5.0	1	8	4.0	70
Mixed Conifer	Pulpwood	15.00	CCF	5.0	1	8	4.0	70
Mixed Hardwood	Pulpwood	1,304.00	CCF	5.0	1	8	4.0	70
Pine	Pulpwood	16.00	CCF	5.0	1	8	4.0	70
Total Quantity		5,572.00	CCF					

* Quantities not included here are described in CT.4.

AT.3- Timber Designations, applicable to CT.3; acres are approximate:

	Number	Acres
Clearcutting Units (CT.3.1)	_____	_____
Specified Road Clearing (CT.3.2)	_____	_____
Overstory Removal Units (CT.3.3)	_____	_____
Understory Removal Units (CT.3.4)	_____	_____
Individual Trees (CT.3.5)	_____	195
Incompletely Measured Payment Units (CT.3.6)	_____	_____

Contract Name: Flash Stewardship

Contract No:

AT.4 - Timber Payment Rates, applicable to DT.1 and ET.0

AT.4.1 - Escalated Rates, applicable for Species and Products to be Paid for at Rates Escalated under DT.2

Species	Product	Unit of Measure	Rates per Unit of Measure				Required Deposits Slash Disposal \$	Base Index
			Base \$	Advertised \$	Bid Premium \$	Bid (Tentative) \$		
Not Applicable								

AT.4.2- Flat Rates, applicable for Species and Products to be Paid for at Flat Rates

Species	Product	Unit of Measure	Rates per Unit of Measure				Required Deposits Slash Disposal \$
			Base \$	Advertised \$	Bid Premium \$	Bid (Flat) \$	
Mixed Conifer	Sawtimber	CCF	1.00	25.12			.00
Mixed Hardwood	Sawtimber	CCF	1.00	129.92			.00
Red & White Pine	Sawtimber	CCF	1.00	89.26			.00
Aspen	Pulpwood	CCF	1.00	49.58			.00
Jack Pine	Pulpwood	CCF	1.00	82.58			.00
Mixed Conifer	Pulpwood	CCF	1.00	21.81			.00
Mixed Hardwood	Pulpwood	CCF	1.00	30.23			.00
Pine	Pulpwood	CCF	1.00	95.08			.00

For purposes of convenience in collection and bookkeeping, Bid Rates stated in AT.4 include payment of deposits for contract area betterment required pursuant to 16 USC 576b. Such deposits are not included as Required Deposits defined hereunder.

Contract Name: Flash Stewardship

Contract No:

AT.4.3 - Schedule of Payment Units

Payment Unit No.	App rox. Acres	To be Escalated under AT.4.1				Total Tentative Payment \$	To be Paid for at Flat Rates under AT.4.2				Total Flat Rate Payment \$	Total Required Deposits for Slash Disposal \$	
		Species	Product	Qty	UOM		Species	Product	Qty	UOM			
001	23					Mixed Conifer	Sawtimber	0.00	CCF		.00		
						Mixed Hardwood	Sawtimber	29.00	CCF				
						Red & White Pine	Sawtimber	0.00	CCF				
						Aspen	Pulpwood	347.00	CCF				
						Jack Pine	Pulpwood	2.00	CCF				
						Mixed Conifer	Pulpwood	1.00	CCF				
						Mixed Hardwood	Pulpwood	152.00	CCF				
						Pine	Pulpwood	0.00	CCF				
		Total PU Quantity And Value							531.00			CCF	
		002	17					Mixed Conifer	Sawtimber			0.00	CCF
						Mixed Hardwood	Sawtimber	22.00	CCF				
						Red & White Pine	Sawtimber	4.00	CCF				
						Aspen	Pulpwood	413.00	CCF				
						Jack Pine	Pulpwood	5.00	CCF				
						Mixed Conifer	Pulpwood	1.00	CCF				
						Mixed Hardwood	Pulpwood	156.00	CCF				
						Pine	Pulpwood	1.00	CCF				
Total PU Quantity And Value							602.00	CCF					
003	26							Mixed Conifer	Sawtimber	0.00	CCF		.00
						Mixed Hardwood	Sawtimber	26.00	CCF				
						Red & White Pine	Sawtimber	7.00	CCF				
						Aspen	Pulpwood	474.00	CCF				
						Jack Pine	Pulpwood	5.00	CCF				
						Mixed Conifer	Pulpwood	1.00	CCF				
						Mixed Hardwood	Pulpwood	177.00	CCF				
						Pine	Pulpwood	2.00	CCF				
		Total PU Quantity And Value							692.00	CCF			
		004	22					Mixed Conifer	Sawtimber	0.00	CCF		
						Mixed Hardwood	Sawtimber	17.00	CCF				
						Red & White Pine	Sawtimber	5.00	CCF				
						Aspen	Pulpwood	135.00	CCF				
						Jack Pine	Pulpwood	0.00	CCF				
						Mixed Conifer	Pulpwood	1.00	CCF				
						Mixed Hardwood	Pulpwood	129.00	CCF				
						Pine	Pulpwood	1.00	CCF				
Total PU Quantity And Value							288.00	CCF					
005	22							Mixed Conifer	Sawtimber	0.00	CCF		.00
						Mixed Hardwood	Sawtimber	21.00	CCF				
						Red & White Pine	Sawtimber	0.00	CCF				
						Aspen	Pulpwood	443.00	CCF				
						Jack Pine	Pulpwood	4.00	CCF				
						Mixed Conifer	Pulpwood	2.00	CCF				
						Mixed Hardwood	Pulpwood	183.00	CCF				
						Pine	Pulpwood	0.00	CCF				
		Total PU Quantity And Value							653.00	CCF			
		006	20					Mixed Conifer	Sawtimber	1.00	CCF		
						Mixed Hardwood	Sawtimber	13.00	CCF				
						Red & White Pine	Sawtimber	0.00	CCF				
						Aspen	Pulpwood	513.00	CCF				
						Jack Pine	Pulpwood	5.00	CCF				
						Mixed Conifer	Pulpwood	2.00	CCF				
						Mixed Hardwood	Pulpwood	140.00	CCF				
						Pine	Pulpwood	0.00	CCF				
Total PU Quantity And Value							674.00	CCF					

Contract Name: Flash Stewardship

Contract No:

Payment Unit No.	App rox. Acres	To be Escalated under AT.4.1	Total Tentative Payment \$	To be Paid for at Flat Rates under AT.4.2		Total Flat Rate Payment \$	Total Required Deposits for Slash Disposal \$
007	14			Mixed Conifer	Sawtimber	1.00 CCF	
				Mixed Hardwood	Sawtimber	3.00 CCF	
				Red & White Pine	Sawtimber	0.00 CCF	
				Aspen	Pulpwood	147.00 CCF	
				Jack Pine	Pulpwood	9.00 CCF	
				Mixed Conifer	Pulpwood	2.00 CCF	
				Mixed Hardwood	Pulpwood	65.00 CCF	
				Pine	Pulpwood	0.00 CCF	
				Total PU Quantity And Value			
008	16			Mixed Conifer	Sawtimber	0.00 CCF	
				Mixed Hardwood	Sawtimber	7.00 CCF	
				Red & White Pine	Sawtimber	0.00 CCF	
				Aspen	Pulpwood	433.00 CCF	
				Jack Pine	Pulpwood	5.00 CCF	
				Mixed Conifer	Pulpwood	1.00 CCF	
				Mixed Hardwood	Pulpwood	81.00 CCF	
				Pine	Pulpwood	0.00 CCF	
				Total PU Quantity And Value			
009	34			Mixed Conifer	Sawtimber	0.00 CCF	
				Mixed Hardwood	Sawtimber	11.00 CCF	
				Red & White Pine	Sawtimber	0.00 CCF	
				Aspen	Pulpwood	1,013.00 CCF	
				Jack Pine	Pulpwood	47.00 CCF	
				Mixed Conifer	Pulpwood	2.00 CCF	
				Mixed Hardwood	Pulpwood	212.00 CCF	
				Pine	Pulpwood	0.00 CCF	
				Total PU Quantity And Value			
010	1			Mixed Conifer	Sawtimber	0.00 CCF	
				Mixed Hardwood	Sawtimber	4.00 CCF	
				Red & White Pine	Sawtimber	9.00 CCF	
				Aspen	Pulpwood	55.00 CCF	
				Jack Pine	Pulpwood	2.00 CCF	
				Mixed Conifer	Pulpwood	2.00 CCF	
				Mixed Hardwood	Pulpwood	9.00 CCF	
				Pine	Pulpwood	12.00 CCF	
				Total PU Quantity And Value			

Contract Name: Flash Stewardship

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AT.4.4 - Stewardship Credits, applicable to ET.2.2 and KT-GT.9#

Mandatory Stewardship Projects					
Project Number	Project Description	Units of Measure	Quantity	Bid Rate \$	Total Credits
SB-02	Site Preparation for Birch Regeneration	Acres	17.00		
SB-03	Site Preparation for Birch Regeneration	Acres	26.00		
SB-05	Site Preparation for Birch Regeneration	Acres	22.00		
SB-08	Site Preparation for Birch Regeneration	Acres	16.00		
SC-01	Road Decommissioning (Slash Closure)	Each	1.00		
SC-02	Road Decommissioning (Slash Closure)	Each	1.00		
SC-03	Road Decommissioning (Slash Closure)	Each	1.00		
SC-04	Road Decommissioning (Slash Closure)	Each	1.00		
SC-05	Road Decommissioning (Slash Closure)	Each	1.00		
SC-06	Road Decommissioning (Slash Closure)	Each	1.00		
SC-07	Road Decommissioning (Slash Closure)	Each	1.00		
SC-08	Road Decommissioning (Slash Closure)	Each	1.00		

Optional Stewardship Projects						
Priority	Project Number	Project Description	Units of Measure	Quantity	Bid Rate \$	Total Credits
2	SP-01	Site Preparation for Aspen Regeneration	Acres	23.00		
2	SP-06	Site Preparation for Aspen Regeneration	Acres	20.00		
2	SP-07	Site Preparation for Aspen Regeneration	Acres	14.00		
2	SP-09	Site Preparation for Aspen Regeneration	Acres	34.00		

Contract Name: Flash Stewardship

Contract No:

The following definitions are established for the terms used in AT.4:

Base Rates are the lowest rates of payment for timber that are authorized by this contract. Base Rates remain constant throughout the life of this contract and are not subject to change by rate redetermination, except for reduction under DT.3.1, DT.3.2, or DT.3.3.

Advertised Rates are the minimum acceptable Bid Rates for timber, exclusive of Required Deposits. These rates are those indicated by appraisal, with a cost allowance made for construction of Specified Roads listed in AT.7, but are never less than Base Rates.

Bid Premium Rates are the amounts by which Contractor's bid is in excess of Advertised Rates. The Bid Premium Rates are constant during this contract, except as provided in DT.3.1, DT.3.2, and DT.3.3.

Bid Rates are the rates bid by Contractor (exclusive of Required Deposits for slash disposal and road maintenance) and are the sum of Advertised Rates and Bid Premium Rates. Until a rate redetermination becomes effective, the Bid Rate for species and products in AT.4.1 is the Tentative Rate that is subject to quarterly adjustment under DT.2; for species and products in AT.4.2, the Bid Rate is the Flat Rate.

Required Deposits are deposits that Contractor may be required to pay for slash disposal (16 USC 490) and road maintenance (16 USC 537). Required Deposits may be adjusted as part of a rate redetermination or a Contract Term Extension. The table shows only Required Deposits for slash disposal; road maintenance deposits, if any, are given in KT-FT.3.2#.

Base Index is the specified average of the lumber or other product selling value index used as the basis for computing adjustment in rates for variance in product selling value, as provided in DT.2.

AT.5 - Indices Used in Quarterly Adjustment, applicable to DT.2

Species	Index Name and Date
Not Applicable	

AT.6 - High Stumps, applicable to GT.4.1.2

Species	Product	Maximum Stump Height (inches)
All	Sawtimber	14
All	Pulpwood	10

Contract Name: Flash Stewardship

Contract No:

AT.7 - Specified Roads, applicable to FT.2

Name and Date of Governing Road Specifications: Federal Highway Administration Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects(2003)-english

Project		Design Class	Approx. Length (mi./km.)	Sheet Numbers and Approval Date	Performance Responsibility		
Road No.	Name				Survey	Design	Construction Staking ^{1/}
2249	FDR2249 (R) (segment 0 to .43)	Single Lane - 15 mph	.43 / .69	SR-1 to SR-36 10/21/2015	FS	FS	FS AC
2240-J	FR 2240-J (R) (segment 0 to .33)	Single Lane - 15 mph	.33 / .53	SR-1 to SR-36 10/21/2015	FS	FS	FS AC

^{1/} Indicate timing, i.e., before clearing (BC) or after clearing (AC). Applicable to FT.2.1.2

AT.8 - Forest Service Engineering Completion Schedule, applicable to FT.2.1

Road No.	Road Name	Type of Work	Completion Date
	Not Applicable		

AT.9 - Fire Precautionary Period, applicable to HT.2

April 01 to November 15, inclusive

AT.10 - Contractor Responsibility to Furnish Crews and Equipment for:

Initial Fire Suppression, applicable to HT.3

Within 5.0 road miles

Fire Suppression Reinforcement, applicable to HT.3.1.2 and HT.3.1.3

Within 20.0 road miles

AT.11 - Contractor's Obligation per Operations Fire, applicable to HT.4.1

Maximum Amount: \$ \$1,000

AT.12 - Termination Date, applicable to IT.2

September 30, 2019

AT.13 - Normal Operating Season, applicable to GT.3.1, GT.6.6, IT.2.1, and JT.3

First Period: May 16 to March 15, inclusive

Second Period: _____ to _____, inclusive

Contract Name: Flash Stewardship

Contract No:

AT.14 - Performance Bond, applicable to JT.1

Performance Bond Amount: _____

AT.15 - Downpayment, applicable to E.T.2.1.1

Downpayment Amount: Not Applicable

AT.16 - Periodic Payment Amount, applicable to ET.2.1.3

	<u>Periodic Payment Determination Date</u>	<u>Amount</u>
Initial Payment:	<u>N/A</u>	<u>N/A</u>
Additional Payment:	<u>N/A</u>	<u>N/A</u>

AT.17 - Market-Related Contract Term Addition Producer Price Index, applicable to IT.2.1.2

Index Name: Wood Chips **Index Number:** 3211135

AT.18 - Inapplicable Provisions

The following listed provisions are hereby made inapplicable. (Instructions: List by reference number and title.)

ET.4	PAYMENTS NOT RECEIVED
IT.2.1.2	MARKET-RELATED CONTRACT TERM ADDITION

AT.19 - List of Special Provisions in Part KT

The following listed special provisions are attached to and made a part of this contract. Provisions with reference numbers followed by # contain blanks into which data have been entered for this contract. (Instructions: List by reference number, title, and date.)

KT-CT.3.0.1#	PROTECTED AREAS (06/2009)
KT-CT.3.5.2#	DESIGNATION BY SPECIES AND DIAMETER (09/2004)
KT-CT.3.5.5#	INDIVIDUAL TREES, CUT TREE MARKING (06/2009)
KT-ET.4	PAYMENTS NOT RECEIVED (08/2012)
KT-FT.1.2#	USE OF ROADS BY CONTRACTOR (09/2004)
KT-FT.2.2.1#	MATERIAL SOURCES (09/2004)
KT-FT.3.1#	ROAD MAINTENANCE REQUIREMENTS (09/2004)
KT-FT.3.2#	ROAD MAINTENANCE DEPOSIT SCHEDULE (09/2004)
KT-FT.3.3#	SNOW REMOVAL (06/2009)
KT-GT.3.1.4#	OPERATING RESTRICTIONS (06/2009)
KT-GT.4.1.2	STUMP MARKS (06/2009)
KT-GT.7#	SLASH DISPOSAL MEASURES (06/2009)
KT-GT.9#	STEWARDSHIP PROJECTS (09/2004)
KT-HT.2	FIRE PRECAUTIONS (06/2009)
KT-IT.2.1.2	MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

There are no pages 10 & 11.

Contract Name: Flash Stewardship

KT-CT.3.0.1# - PROTECTED AREAS (06/2009)

Notwithstanding the designations for cutting under CT.3.1, CT.3.3, CT.3.4, and CT.3.5, trees within the area to be protected in Payment Unit 003 and 009 shall be left uncut. Boundary trees along the perimeter of Protected Areas have been identified by 3 ORANGE paint slashes and "PA" at eye level (facing AWAY from the Protected Area), and painted at the stump. Boundary trees are not to be cut. Contract Area Map indicates with the symbol "PA" units within which Protected Areas are identified on the ground and are to be left uncut.

KT-CT.3.5.2# - DESIGNATION BY SPECIES AND DIAMETER (09/2004)

Trees that meet Utilization Standards are designated for cutting, as shown on the Tree Designation Table and Sale Area Map, except trees Marked with ORANGE paint or described to be left uncut.

See Tree Designation Table.

Additional trees to be cut, if any, are Marked with BLUE paint.

All Hemlock, Cedar, Red and White Pine shall be left as leave trees, unless Marked with BLUE paint. Leave N/A trees of the designated cut species, N/A inches stump diameter or greater, to avoid leave tree spacing greater than N/A feet. Cutting unit boundaries and other trees that shall be left uncut are Marked with ORANGE (at eye level and at the stump) paint.

Distances are measured horizontal distance, outside bark stump height to outside bark stump height. Stump diameter is measured outside bark at stump height in a horizontal and is the average of a measurement across the short axis through the true center of the stump and a second measurement at right angles to the short axis.

Contractor and Forest Service shall agree to skid trail location under BT6.422. Skid trails shall be no greater than N/A feet wide with a N/A foot spacing. Quantities of trees located in skid trails are (if a designated species in the Tree Designated Table) Included Timber under AT2.

Contract Name: Flash Stewardship

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KT-CT.3.5.2# – DESIGNATION BY SPECIES AND DIAMETER. (09/2004)

Tree Designation Table

Payment Unit(s) or Cutting Unit(s)	Designated Species	More Than Stump Diameter (inches)	Less Than Stump Diameter (inches)
01, 02, 03, 05, 06, 08 and 09	All EXCEPT Hemlock, Cedar, Red and White Pine	$\geq 6.0''$	N/A

Contract Name: Flash Stewardship

KT-CT.3.5.5# - INDIVIDUAL TREES, CUT TREE MARKING (06/2009)

Individual trees to be cut are Marked with indicated color above and below stump height 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."

PAYMENT UNIT(S)

PAINT COLOR

Contract Name: Flash Stewardship

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KT-CT.3.5.5# - INDIVIDUAL TREES. (02/2008)

Cut Tree Marking Table

Payment Unit(s)	Paint Color(s)
04 and 07	BLUE
10 (Roads)	YELLOW

Contract Name: Flash Stewardship

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.

Contract Name: Flash Stewardship

KT-FT.1.2# - USE OF ROADS BY CONTRACTOR (09/2004)

Contractor's use of existing roads identified on Contract Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

Code	Use Limitations
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by the Forest Service to inform the public of use restrictions. Contractor's use of roads coded R, A, or W shall be in accordance with the following restrictions:

See Restricted Road List Table.

KT-FT.1.2# – USE OF ROADS BY CONTRACTOR. (09/2004)

Restricted Road List Table

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
2240	FR 2240	FR 2245 Intersection	Going West	X	Hauling Prohibited
2240	FR 2240	2240-J intersection going north	POE	X	Hauling Prohibited
2240-J	FR 2240-J	MP 0.00	MP 0.33	U	Unsuitable for Hauling Prior to Completion of Reconstruction
2248-A	FR 2248-A	POB	POE	X	Hauling Prohibited
2248-B	2248-B	POB	POE	P	Use Prohibited
2249	FR 2249	0.00	0.43	U	Unsuitable for Hauling Prior to Completion of Reconstruction
2249	FR 2249	0.43	0.47	X	Hauling Prohibited; use as a skid trail must be approved by Forest Service
2249	FR 2249	0.47	POE	X	Hauling Prohibited
2285-C	FR 2285-C	0.65	POE	P	Use Prohibited

POB = Point of Beginning
 POE =Point of Ending

Note: “Hauling” includes empty or loaded log trucks.

Contract Name: Flash Stewardship

KT-FT.2.2.1# - MATERIAL SOURCES (09/2004)

Sources of local materials are designated on Plans and Contract Area Map. Forest Service assumes responsibility for the quality and quantity of material in designated sources. Contractor shall determine the equipment and work required to produce the specified product, including the selection of acceptable material that is reasonably available in the source that meets specifications. The designation of source includes the rights of Contractor to use certain area(s) for plant site, stockpiles, and haul roads.

Should the designated source, due to causes beyond the control of Contractor, contain insufficient acceptable material, Forest Service will provide another source with adjustment in accordance with FT.2.5.3.

When Contractor elects not to use designated sources, Contractor shall furnish the specified product with no adjustment in unit rates. Quality testing shall be the responsibility of Contractor. Test results shall be furnished to Forest Service.

When Contractor elects not to use designated sources and Schedule of Items lists pit development separately, cost allowance will be reduced under FT.2.5.3 when Forest Service determines the work will not be required.

When materials are subject to a weight measurement, the specific gravity or weight/volume relationship used as a basis for determination of estimated quantities shall be:

Source I N/A, Source II N/A, and Source III N/A.

Contractor may, when agreed in writing, use on the project such suitable stone, gravel, and sand, or other material found in the excavation, and will earn a cost allowance for the excavation of such materials at the corresponding contract unit price and for the pay items for which the excavated material is used. Contractor shall replace, without additional cost allowance, sufficient suitable materials to complete the portion of the work, which was originally contemplated to be constructed with such material. Contractor shall not excavate or remove any material, except that which is within the excavation limits, without written authorization from Forest Service.

When material is appraised from non-National Forest designated sources, owner charges for the material in terms of unit cost for royalties, purchase of raw materials, or finished products shall be as follows until N/A:

See Material Source Table.

Should quantity vary from that estimated, payment to owners shall be for units actually obtained. Contractor shall make arrangements with owner(s) for measurement and payment for royalties, purchase of raw materials, or finished products, as shown above.

Materials produced or processed from National Forest lands in excess of the quantities required for performance of this contract are the property of Forest Service, unless prior written agreement has been obtained to use excess material on other National Forest contracts. Forest Service is not obligated to reimburse Contractor for the cost of their production.

Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials shall be located to facilitate their prompt inspection. Sites on Forest Service administered land, approved by Forest Service, may be used for storage purposes and for the placing of Contractor's plant equipment. All storage sites provided by Forest Service shall be restored at Contractor's expense.

Contract Name: Flash Stewardship

Contractor shall be responsible for making arrangements for storage on other than Forest Service administered lands.

When the construction of the portion of the project for which Temporary Roads used for hauling materials is completed, all such Temporary Roads shall be restored as nearly as practicable to their original ground profile, unless otherwise agreed in writing.

Contract Name: **Flash Stewardship**

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WO-KT-FT.2.2.1# - MATERIAL SOURCES. (09/04)

Material	Type of Purchase	Owner(s)	Unit of Measure	Unit Price	Estimated Quantity	Total
Pit Run	N/A	USFS	CY	NA	200	200

NOTE: Pit restoration (per specifications) in the Coontail Pit shall be accomplished no later than the end of each operating season.

Contract Name: Flash Stewardship

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.

Contract Name: Flash Stewardship

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WO-KT-FT.3.1# – ROAD MAINTENANCE REQUIREMENTS. (09/04)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		T-8030	T-8110	T-8130	T-8310	T-8340	T-8350	T-8360	T-8420	T-8620	
2240	0.00	1.08	1.08				P	P		P			
2248	0.00	0.28	0.28			P	P	P		P			
2285-C	0.00	0.65	0.65				P	P		P			

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		T-8030	T-8110	T-8130	T-8310	T-8340	T-8350	T-8360	T-8420	T-8620	
2240	0.00	3.28*	3.28*			P ^{1/}	P	P		P			
2240-J	0.00	0.33	0.33			P ^{1/}	P	P		P			
2248	0.00	0.28	0.28			P ^{1/}	P	P		P			
2249	0.00	0.43	0.43			P ^{1/}	P	P		P			
2285-C	0.00	0.65	0.65			P ^{1/}	P	P		P			
2245	2240	Boundary	0.60		D		D	D			D		

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

P^{1/} Up to 200 CY (260 CY loose) pit run to be placed on any maintenance segment as directed by Forest Service.

*= First 2.20 miles not included in Prehaul Road Maintenance due to no work needed.

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T-8030	T-8110	T-8130	T-8310	T-8340	T-8350	T-8360	T-8420	T-8620	
2240	0.00	3.28*	3.28*				P	P	P	P			
2240-J	0.00	0.33	0.33				P	P	P	P		P	
2248	0.00	0.28	0.28				P	P	P	P			
2249	0.00	0.43	0.43				P	P	P	P			
2285-C	0.00	0.65	0.65				P	P	P	P			
2245	2240	Boundary	0.60		D		D	D			D		

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

*= First 2.20 miles not included in Prehaul Road Maintenance due to no work needed.

Contract Name: Flash Stewardship

KT-FT.3.2# - ROAD MAINTENANCE DEPOSIT SCHEDULE (09/2004)

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 and for deferred maintenance is: \$.56 per CCF.

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-FT.3.3# - SNOW REMOVAL (06/2009)

Snow removal shall be done in a manner that will preserve and protect roads, provide for safe and efficient transport of timber, and prevent erosion damage to streams and adjacent lands. In performing snow removal, Contractor shall adhere to the following performance standards, unless otherwise agreed:

Blade will be equipped with skid shoes to prevent loss of surfacing and damage to the road bed. On gravel and native surface roads, a minimum 4-inch depth compacted snow mat shall be maintained on the roadbed during blading.

Snow shall be removed from the entire road width, including turnouts.

Snow berms shall be reduced at road intersections where plowed road segments join unplowed road segments. Reduce the piled snow in the roadway to create a smooth transition from plowed road to normal snow depth.

Openings shall be created in snow berms as needed for proper drainage. Remove snow, ice, and debris from culverts and other drainage structures as needed to ensure efficient flow of water.

Tracked or clefted vehicles shall not be used for snow removal without prior written approval of Forest Service Representative.

Contract Name: Flash Stewardship

KT-GT.3.1.4# - OPERATING RESTRICTIONS (06/2009)

Within Contract Area, unless changed by written agreement, the following operating requirements apply:

Restricted operations/activities:

Payment Units 001, 002, 003, 007, 008 & 009: Purchasers operations are restricted during the period of 03/16 through 05/15 (due to soils and protection of residual stems).

Payment Units 004, 005 & 006: Purchasers operations are restricted during the period of 03/16 through 07/14 (due to soils and protection of residual stems), AND 11/01 through 12/14 (due to soils).

Within the Contract Area, decked pine and other conifer material must be removed from the Contract Area within 30 days of cutting to minimize the potential breeding areas for pine beetles during the period of May 1 thru September 30.

Prohibited operations/activities:

N/A

KT-GT.4.1.2 - STUMP MARKS (06/2009)

Trees designated for cutting under CT.3.5 have been marked with paint at breast height and below stump height. Trees shall be felled so as to leave paint on stump.

Contract Name: Flash Stewardship

KT-GT.7# - SLASH DISPOSAL MEASURES (06/2009)

Slash resulting from Contractor's operations shall be removed from lakes, ponds, private land, right-of-way clearings for telephone lines, power lines, pipelines and other authorized facilities, and landings to be seeded under KT-GT.6#.

The tops of trees shall not be left hanging in standing trees. All trees cut for landing and other construction clearings shall be completely severed and not left leaning. Slash resulting from construction clearing shall be treated concurrent with harvest operations.

Other specific slash disposal requirements are as follows:

SDZ - shown on Contract Area Map for Payment Units 001-010. Slash resulting from construction clearing (such as from landings, temporary roads, ROW clearing associated with pre-haul road maintenancerequirements listed in KT-FT.3.1#), including Specified Road construction, shall be lopped and scattered to lie within 3 feet of the ground. All root wads will be severed from the stem and righted on the ground or otherwise disposed of as directed by the Forest Service, concurrent with operations.

SDZ(2) - shown on the Contract Area Map in Payment Units 001-009 - All slash resulting from Purchaser's operations shall either be 1) left at the stump when severed from the merchantable portion of the stem, 2) delimbed in place when bunched with processor-type equipment prior to skidding/forwarding to a central processing point, or 3) spread back evenly across the payment unit, concurrent with operations. Slash incorporated into closure berms is NOT included in the above described SDZ and SDZ(2)requirements.

Slash Disposal treatment zones are shown on the Contract Area Map with symbol "SDZ."

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

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

Stewardship Projects

Contract Name: Flash Stewardship

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

Stewardship Projects

Mandatory Stewardship Projects		
Project Number	Project Description	Specification Pages
SC-01	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SC-02	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SC-03	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SC-04	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SC-05	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SC-06	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SC-07	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SC-08	Road Decommissioning (Slash Closure)	SC-1 through SC-3 & SR-4 through SR-36
SB-02	Site Preparation for Birch Regeneration	SB-1 through SB-2
SB-03	Site Preparation for Birch Regeneration	SB-1 through SB-2
SB-05	Site Preparation for Birch Regeneration	SB-1 through SB-2
SB-08	Site Preparation for Birch Regeneration	SB-1 through SB-2

Optional Stewardship Projects			
Priority	Project Number	Project Description	Specification Pages
2	SP-01	Aspen Site Preparation	SP-1 through SP-2
2	SP-06	Aspen Site Preparation	SP-1 through SP-2
2	SP-07	Aspen Site Preparation	SP-1 through SP-2
2	SP-09	Aspen Site Preparation	SP-1 through SP-2

Contract Name: Flash Stewardship

KT-HT.2 - FIRE PRECAUTIONS (06/2009)

Unless otherwise agreed in writing between the Contractor and the Contracting Officer, the following are specific precautionary measures applicable during Contractor's Operations in Fire Precautionary Period as indicated in AT.9:

1. Contractor shall maintain Forest Service-approved spark arresting devices on any piece of equipment operated by an internal combustion motor. In addition, each piece of motorized equipment shall be equipped with a serviceable round-pointed shovel and an operational fire extinguisher of at least five-pound rating suitable for the equipment being used. All chainsaw operators will have a serviceable round-pointed shovel and one-pound multipurpose fire extinguisher readily available.
2. Contractor shall require that smoking and the building of lunch or warming fires by Contractor's employees, contractors, or subcontractors be confined to designated safe places where flammable debris has been cleared away and where, at the option of the Contractor, smoking or the building of lunch or warming fires may be permitted.
3. Adequate spark arresters shall be maintained on chimneys or stovepipes where wood or coal is being burned in an enclosed device.
4. Contractor shall furnish serviceable firefighting tools. Location, numbers, and types of tools shall be specified in the Fire Prevention and Control Plan in accordance with HT.1.

KT-IT.2.1.1.2 - 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.

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions

SECTION 1. GENERAL

Purchaser's main Road 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 **GT.3.1**.

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

Unless the CO or designee agrees in writing, all Prehaul Maintenance requirements shall be completed on any portion of road prior to hauling on that portion.

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

Any work or materials that are determined to no longer be needed and are waived shall have the estimated cost charged to the Timber Sale Account as described in **IT.3.3**.

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.

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.

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions

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

During Haul Maintenance. Road maintenance work to be accomplished during the period of timber removal.

Geotextile. A group of construction fabrics with varying attributes designed for different purposes.

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

Maintenance Activitiy. Items of work leading to the 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.

Post Haul Maintenance. Road maintenance work to be accomplished after timber removal is completed.

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.

Road Maintenance Cost. An estimate of the cost to perform road maintenance activities; as determined by the Forest Service. Estimates may include any or all of the work activities listed in Section 4, Road Maintenance Activity Specifications.

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.

Sand Hole. A hole that develops in the running surface of the road which is quite soft and dangerous in nature. Usually found in very sandy soils.

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.

**FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions**

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.

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SCHEDULE

See **WO-KT-FT.3.1#** Summary Table, Page 54

SECTION 4. ROAD MAINTENANCE SPECIFICATIONS

INCLUDED SPECIFICATIONS

<u>Specification No.</u>	<u>Specification Title</u>
T-8110	Maintenance Blading/Grading
T-8130	Spot Surface Course Placement/Replenishment
T-8310	Ditch Cleaning
T-8340	Drainage Structure Maintenance
T-8350	Roadway Drainage Maintenance
T-8360	Composite High Clearance Road Maintenance
T-8420	Cutting Roadway Vegetation
T-8620	Miscellaneous Maintenance

T-8110 Maintenance Blading/Grading

DESCRIPTION

1.1 Maintenance Blading/Grading is keeping an 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 Drainage Dips and Lead-off Ditches.

EQUIPMENT

2.1 The equipment required to shape, spread, and compact surfacing is listed below.

Road Number	Road Termini - From	Road Termini - To	Equipment Description
2245	2240	Forest Boundary	Motor-grader (or equivalent)

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions

REQUIREMENTS

- 3.1 Maintenance Blading/Grading shall be performed to facilitate traffic and proper drainage before, during, or after Purchaser's use as required by Section 3. Road Maintenance Requirements Schedule.
- 3.2 The surface blading shall preserve the existing cross-section. Surface irregularities shall be eliminated and the surface left in a smooth, free-draining state 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 aggregate surfaced roads Material generated from back slope Sloughing and ditch cleaning shall not be blended with Surface or Base Course Material unless agreed otherwise
- 3.4 Roadway back slopes 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 side casting unless agreed otherwise. Side casting into streams, lakes, or water courses will not be permitted.
- 3.8 Material resulting from this activity shall not remain on or in structures, such as Culverts, cattle guards, ditches, bridges, and Drainage Dips.
- 3.9 Material resulting from this activity, plus any accumulated debris, shall be removed from roadway structures, such as concrete low-water crossings or fords.

T-8130 Spot Surface Course Placement/Replenishment

DESCRIPTION

- 1.1 Spot Surface Course Placement/Replenishment includes Subgrade preparation, furnishing, hauling, spreading and shaping materials in accordance with the requirements.

MATERIALS

- 2.1 Surface Course Material will be in accordance with the subsection 3.2 of these specifications. Only commercial sources of aggregate will be accepted, except surfacing material may also be purchased from the government, where available, by filling out a form 2600, paying the required fees, and obtaining a permit.

**FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions**

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, haul and spread Material at locations designated on the ground by the Forest Service (FS). Compact the aggregate by operating spreading and hauling equipment over the full width of each layer of the aggregate, or by other methods as specified below.

Road Number	Type Material	Finished Compacted Thickness Specified	Total Quantity (Tons or cu.yds.)	Compaction Method
2248 (MP 0.00 – 0.01)	Crushed Aggregate ^{1/}	Surface Entrance	30 CY (39 CY) ^{2/}	See 3.2 Above
Any Purchaser Responsibility Road	Pit Run Gravel ^{3/}	To Be Placed as Directed by USFS (During Haul Road Maintenance).	200 CY (260 CY) ^{2/}	See 3.2 Above

^{1/} **Furnish, Haul, Place. Must meet M-DOT Designation 22A.**

^{2/} **Quantity of material in () is the approximate loose volume.**

^{3/} **Coontail Pit, as shown on Contract Area Map.**

3.3 Variations. The Purchaser will be required to furnish weight tickets to the FS for each load of commercially obtained crushed aggregate prior to the final inspection. For aggregate purchased from the government, a count of truck loads will be required in addition to finished depth checks for the placed and compacted aggregate. Widths and lengths will be as staked or from schedule. 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 **IT.3.3**.

T-8310 Ditch Cleaning

DESCRIPTION

1.1 Ditch cleaning is the removal and disposal of all accumulated organic and Slough Material from Roadway ditches to provide a positive draining waterway of uniform width, depth, and grade.

REQUIREMENTS

3.1 Ditch cleaning shall be repeated during sale operations as often as necessary to facilitate proper drainage.

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions

- 3.2 All Slough Material or other debris which might obstruct water flow in the Roadway ditch shall be removed. Material removed from ditches that are not suitable for blending into the existing surface course shall be disposed of in places agreed to in writing by the FSR.
- 3.3 Roadway back slopes shall not be undercut.

T-8340 Drainage Structure Maintenance

DESCRIPTION

- 1.1 This work consists of maintaining and/or installation/removal of Drainage Structures and related items such as: inlet and outlet channels, existing riprap, trash racks, necessary geotextiles, pipes, and drop-inlets.

MATERIALS

- 2.1 All Materials used in the maintenance and/or installation/removal of Drainage Structures shall conform by type and specification to the Material in the structure being maintained or as indicated in the subsection 3.3 below.

REQUIREMENTS

- 3.1 Drainage Structures and related items shall be cleared of all foreign Material deposited above the bottom of the structure and all vegetative growth which interferes with the water flow. Material removed that cannot be incorporated into maintenance work shall be uniformly placed on fill slopes unless agreed otherwise.
- 3.2 Perform maintenance to insure the proper functioning of the head walls, aprons, inlet assemblies, riprap, trash racks and other facilities related to the Drainage Structure.
- 3.3 Install/remove ditches, drainage dips, rock crossings and/or culverts as shown below, and as marked on the ground. Installation of structures shall not begin without the presence of a FSR unless agreed to in writing by the FSR.
- 3.4 Installation shall be in accordance with construction industry standards and practices.
- 3.5 Culverts designated for removal/disposal shall become the property of the Purchaser and shall be disposed of properly.
- 3.6 Temporary culverts provided by the USFS shall remain the property of the government.

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS

FS-2400-13T Contracts (09/04)

WO-KT-FT.3.1# Special Provisions

3.7 Bridges. Any miscellaneous parts needing repair or replacement during normal use of any bridge during haul shall be considered maintenance. This includes minor items such as object markers, running planks that have loosened or cracked deck boards, or drainage structures which may become plugged. Bridge decks that are dirt and dust covered shall be cleaned to allow for proper drainage and for safety of the user.

T-8350 Roadway Drainage Maintenance

DESCRIPTION

1.1 This work consists of providing Post Haul drainage on roads.

MATERIALS

2.1 All Materials used in the maintenance and/or installation/removal of Drainage Structures shall conform by type and specification to the Material in the structure being maintained, or as indicated in subsection 3.3.

REQUIREMENTS

3.1 Upon completion of work, shape the roadway to provide for the removal of surface water. The roadway need not be passable to vehicles (ML-1 roads). Repair and reinstall waterbars, barriers or berms existing prior to the Purchaser's operation. Areas where water is ponded by existing centerline profile sags in through cuts may be left untreated.

3.2 Any of the following methods are acceptable for use at eroded or rutted locations:

- (a) Method A: Outsloping the roadbed at not less than ½ inch per yard of width.
- (b) Method B: Insloping the roadbed at not less than ½ inch per yard of width.
- (c) Method C: Water bar roadbed at locations staked on the ground and construct as shown on the enclosed detail.
- (d) Method D: Crown the roadbed as shown in the attached detail as the typical section for that length of road.

3.3 Drainage structures located in roadbed through fills and natural watercourses shall be fully functional without obstructions, including inlet and outlet channel within 20 feet of the structure. **(All structures within termini indicated in WO-KT-FT.3.1# Summary Table).**

3.4 Entrance Devices. Upon completion of work, replace entrance devices to effectively eliminate access by motorized vehicles (ML-1).

3.5 Seed and fertilize all disturbed areas in accordance with requirements set forth in T-8410 Vegetation Establishment.

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions

T-8360 Composite High Clearance Road Maintenance

DESCRIPTION

1.1 This work consists of making limited use roads passable for project use by Purchaser and providing drainage from the traveled way and roadbed.

MATERIALS

2.1 Required materials are listed in subsection 3.2.

REQUIREMENTS

3.1 Traveled Way

A. Purchaser may smooth or fill existing cross ditches and waterbars and, by agreement, modify existing road junction to enable vehicle access. Prior to beginning haul and resumption of haul after an extended stoppage:

1. Remove brush, fallen trees, rocks, and other debris from traveled way, including turnouts, turnarounds, and other locations that interfere with needed maintenance. No object extending over 4 inches above the road surface shall remain within the 12 feet usable traveled way.
2. Center the usable width of the roadbed or position away from the fill slope.
3. Cut and remove standing or down trees, logs, brush, and limbs from within the 12 feet usable traveled way. Remove encroaching limbs to a height of 14 feet above the traveled way surface. Scatter material not meeting utilization standards outside and below the roadbed on the fill side. Limb and remove designated timber which meets utilization standards or deck at agreed locations.
4. Place all removed material away from drainages and in locations previously agreed to in writing by the FSR.
5. During use, maintain drainage structures including dips, ditches and culverts in a usable condition and surface in a flat, Insloped or Outsloped, or Crowned usable condition, **per Typical Drawing.**

3.2 Drainage Facilities. Clean and recondition drainage facilities in accordance with T-8310 Ditch Cleaning and T-8340 Drainage Structure Maintenance. **See Table in T-8340 for new structures; maintain all other structures per 3.1, Item 5 above within termini indicated in WO-KT-FT.3.1# Summary Table.**

3.3 Slough and Slides

1. Slough and Slides may be left in place provided surface drainage is adequately provided and at least 12 feet of width is available for vehicle passage.
2. Purchaser may reposition or ramp over Slides and Slough when the Traveled Way is less than 12 feet providing the material is capable of supporting vehicles. Limit Outslope to no more than six percent.

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions

3. Reposition Slough or Slide materials, which are not capable of supporting a vehicle, on the roadbed to provide the 12 feet width. When directed by Forest Service, Slough or Slide material will be removed under Section T-8320 Slide, Slump, and Erosion Repair.

3.4 Slumps, Eroded areas, and Washouts

1. Drain the roadbed immediately upgrade of Slumps and longitudinal cracks to prevent water from entering Slump area.
2. Slumps and longitudinal cracks at the edge of the roadbed shall not be considered a part of the usable width. Usable width may be reduced to ten feet in the area of the Slump.
3. Unless Forest Service agrees to material being placed on Slumps, ramp the Slumps on both ends into undisturbed roadbed to provide at least ten feet usable width. Use removed materials to guide vehicles to the ramp location or to aid in draining the area.
4. Eroded areas/washouts may be filled with suitable material and compacted by operating equipment over the fill area.

3.5 Posthaul

A. At the end of hauling or prior to entering into seasonal shutdowns or a period of extended inactivity:

1. Shape the traveled way and disturbed roadbed to provide functional drainage.
2. Reinstall removed cross ditches and waterbars and provide any additional drainage structures necessary to offset changes caused through use and maintenance.
3. Leave roads useable for high clearance vehicles. Remove or reshape Purchaser modifications at road junctions to leave the entrance as it was before use, or as agreed at the time of improvement.
4. Close all roads which were closed previously, using prior existing methodology.

T-8420 Cutting Roadway Vegetation

DESCRIPTION

- 1.1 This work includes removal of brush, trees and other vegetative growth from within the clearing limits. This may include brush mowing of shoulders to prevent larger growth which would inhibit travel in the future.

EQUIPMENT

- 2.2 Equipment use may include farm tractor mounted mowing or brushing equipment. If brushing equipment is required it must be of a size and power to cut off and masticate stems up to four inches in diameter. Larger growth may require hand clearing with a chainsaw or mechanized equipment able to handle larger trees.

FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
FS-2400-13T Contracts (09/04)
WO-KT-FT.3.1# Special Provisions

REQUIREMENTS

- 3.1 Vegetative matter within the Roadway which impedes vehicular travel, and/or interferes with road maintenance operations, such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked in locations where agreed upon and the Traveled Way or sight distances will not be impaired.
- 3.2 Vegetative matter removed from the clearing limits shall be scattered outside the clearing limits at least 3 (and lopped to within 3 feet of ground) feet perpendicular to the road surface.
- 3.3 Trim tree branches that extend over the road surface and shoulders to attain a clear height of 14 feet. Trim branches flush with the tree or as close as possible without causing damage or scarring to the bole. Area shall be left neatly trimmed.
- 3.4 Any stump removed shall be placed in an upright position out of the clearing limits.
- 3.5 Area shall not be left in an unsightly condition. The FSR shall have the final say over how the area is left.

T-8620 Miscellaneous Maintenance

DESCRIPTION

- 1.1 Maintenance of miscellaneous structures includes cattle guards, gates (this includes all types of closure devices such as logs, rocks, dirt berms, dirt and slash berms, metal gates, etc), signs, and other similar structures that have been previously installed to insure safe and efficient operation of the road.

MATERIALS

- 2.1 Any Materials needed in the maintenance of miscellaneous structures shall be similar in type and quality to the Material in the structure being maintained.

REQUIREMENTS

- 3.1 Cattle guards. Loose rails shall be welded or bolted back in place. Excess Material carried into the cattle guard shall be removed when drainage is blocked or when it reaches six inches from the bottom of the cattle guard frame. Drainage into and from the cattle guard shall be kept open.
- 3.2 Gates (and other closure devices). Gates shall be kept in good repair and made to swing easily. Hinges or latches shall be repaired if not operating properly. Brush and debris shall be removed from within the swinging radius. Weathered berms or wood piles shall be reconstructed to a height which discourages use and blocks the road.

**FLASH STEWARDSHIP ROAD MAINTENANCE REQUIREMENTS
 FS-2400-13T Contracts (09/04)
 WO-KT-FT.3.1# Special Provisions**

3.3 Signs. Any signs needing repair or replacement shall be installed per sign placement detail or MUTCD direction. All roads shall have legible sign numbers. ML 3-5 roads shall have horizontal numbering and ML 1-2 roads shall have vertical numbers. The material used shall be as directed by the Forest Service Representative. All new signs must meet retroreflectivity requirements.

Road Number	Road Name	Location	Remove/Install	Type of Item	Size	Quantity
2240-J	2240-J	1/, 2/	Install	Berm ^{3/}	4/	1

- 1/ **Shown on Contract Area Map**
- 2/ **At Location Designated by Forest Service**
- 3/ **ATV Passable Berm**
- 4/ **Per Typical Drawing – Earthen Berms/Road Closure Devices**

Supplemental Specifications to Special Provision KT-GT.9# - Stewardship Projects**Stewardship Project: Slash Closure – Road Decommissioning**

Objective: Permanently make unauthorized roads impassable.

Stewardship Credits Earned: Will be based on the Unit of Measure listed below.

Mandatory Service Projects

Project Number	Road #	Location of Slash Closure Work	Unit of Measure	Estimated Quantity
SC-01	0511001	Off of FR 2240 in PU 8 road to Northeast	Each	1
SC-02	0511002	Off of FR 2240 in PU 6 road to Northeast	Each	1
SC-03	0511003	Off of FR 2240 at North end of PU 5 road to East	Each	1
SC-04	0511004	Off of FR 2240 First road to North in PU 8	Each	1
SC-05	0511007	End of FR 2248B road to left	Each	1
SC-06	0511008	End of FR 2248B road to right	Each	1
SC-07	0511028	End of FR 2240J road to right	Each	1
SC-08	0511030	Off of FR 2240J first road to the left.	Each	1

Material and Placement Requirements

- Debris material including stumps, trees, logging slash, rocks, and brush should be used to obstruct the travel way on the nine (8) road sections designated by Forest Service for decommissioning, as listed in the above table. This material may have to be hauled or moved from locations agreed to with Forest Service and placed on designated road segments.
- Material must be scattered across travel way with a minimum of 100% of the road surface covered with material for a distance of 150 feet and an average depth of 36 inches on each road section.
- Material shall be placed parallel, diagonal, and perpendicular to motorized travel direction.

SUPPLEMENTAL SPECIFICATIONS (KT-GT.9#)**Statement of Work**

The Contractor shall provide any and all equipment, labor, supplies, tools, supervision, transportation, materials including safety and other incidentals necessary to perform all work activities located within the boundaries of the Contract Area, in accordance with the specifications, exhibits and clauses contained or referenced herein.

Schedule of Work

Project No.	Spec. No.	Road #Location/ Milepost	Work Description	Unit of Measure & M of M ¹	Quantity
Mandatory					
SC-01		0511001	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' From FR 2240.	EA	1
SC-02		0511002	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' from FR 2240.	EA	1
SC-03		0511003	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' from FR 2240.	EA	1
SC-04		0511004	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' from FR 2240.	EA	1
SC-05		0511007	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' from end of FR 2248B.	EA	1
SC-06		0511008	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' from end of FR 2248B.	EA	1
SC-07		0511028	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' from the end of 2240J.	EA	1
SC-08		0511030	Slash Closure		
	249.04	0.00-0.03	Haul and place stumps, slash, tops and debris in roadbed for the first 150' from FR 2240J.	EA	1

FLASH STEWARDSHIP

Road Decommission Stewardship Notes

Note: Logging slash, stumps, rocks and debris placed on road surface on the designated sections by the Forest Service with materials placed on an average of 36 inches in depth and 150 feet in length. Material must be scattered across travel way width with a minimum of 100% of the road surface covered with material. Material shall be placed parallel, diagonal and perpendicular to motorized travel direction.

Note: The decommissioning material may have to be hauled and placed on certain road segments.

Note: Additional debris materials will be generated for use during the clearing and grubbing of roads throughout project. This material may also be used for slash closure of decommissioned roads.

Supplemental Specifications to Special Provision KT-GT.9# - Stewardship Projects**Mandatory Stewardship Project: Site Preparation for Birch Regeneration**

Objective: The overall objective is to lightly scarify soil to promote natural regeneration of Birch and Aspen, as well as some oak, hemlock, and red/white pine. A similar piece of equipment capable of performing the task is acceptable (i.e. brush rake, roller chopper, subsoiler, etc).

Stewardship Credits Earned: Will be based on the acres of the Payment Unit(s) listed below

Project Number	Payment Unit(s)	Compartment/Stand	Unit of Measure	Quantity
SB-02	02	110/23	Acres	17
SB-03	03	110/18, 111/48, 111/49	Acres	26
SB-05	05	110/7	Acres	22
SB-08	08	110/5, 110/19, 111/2	Acres	16

Definitions:

- 1.1 Scarification – Shallow loosening of the soil surface to encourage seed germination.
- 1.2 Seed Tree – A mature tree left uncut to provide seed for regeneration of a harvested stand.
- 1.3 Slash – Branches and other woody material left on a site after harvest.
- 1.4 Advanced Regeneration – Regeneration that is established before the existing forested stand is harvested.

Technical Specifications for the Treatment:

- 2.1 Lightly scarify to mix the humus and upper mineral soil on a minimum of 20% of the area. Scarification should occur to a depth of approximately 2 inches, within an acceptable range of 1-4 inches. Work may be done concurrent with logging operations.
- 2.2 There may be areas left untreated due to heavy accumulations of slash. Light layers of slash should be removed to scarify beneath, but it is not the intent to move or create large piles of slash in order to scarify.
- 2.3 Concentrate scarification around birch, hemlock, oak, white and red pine seed trees. The distance scarified should extend from the tree bole out to at least on tree length.
- 2.4 Protect all seed trees from physical injury from mechanical equipment.
- 2.5 Do not treat areas where advanced regeneration of birch, hemlock, oak, or white pine is already present. Damage to this advanced regeneration should be minimized.

2.6 Any Reserve Trees, other trees identified for protection, or Protected Areas, shall also be protected during the scarifying activities.

2.7 Forest Service will work with the Contractor at the beginning of this Stewardship Project Item to assist in identifying Potential Seed trees.

2.8 Soils must be snow free and free of frost (unfrozen) before work can begin. In addition, operations may be delayed during periods of heavy rainfall which would result in soil damage (excessive compaction or rutting) from operation of equipment. Additional time would be granted for completion date if rain delays exceed 10 days. The Government will make the soil acceptability determination.

2.9 Contractor shall adhere to the following requirements with regard to cleaning the prime mover vehicle of anchor chains:

(i) Prior to moving prime mover vehicle onto the Contract Area, Contractor shall identify the location of the equipment's most recent operation. Contractor shall not move any prime mover vehicle that last operated in an area infested with one or more invasive species of concern onto Contract Area without having cleaned such equipment of seeds, soil, vegetative matter, and other debris that could contain or hold seeds, and having notified Forest Service, as provided in (ii). If the location of prior operation cannot be identified, then Contractor shall assume that the location is infested with invasive species of concern.

(ii) Prior to moving any prime mover vehicle subject to the cleaning requirements set forth above, Contractor shall advise Forest Service of its cleaning measures and make the equipment available for inspection. Forest Service shall have 2 days, excluding weekends and Federal holidays, to inspect equipment after it has been made available. After satisfactory inspection or after such 2 day period, Contractor may move the equipment as planned. Equipment shall be considered clean when a visual inspection does not disclose seeds, soil, vegetative matter, and other debris that could contain or hold seeds.

Supplemental Specifications to Special Provision KT-GT.9# - Stewardship Projects**Optional Stewardship Project: Aspen Site Preparation**

Objective: To prepare the site for natural aspen regeneration.

Stewardship Credits Earned: Will be based on the Unit of Measure listed below

Optional Service Projects

Project Number	Payment Unit(s)	Compartment/Stand	Unit of Measure	Quantity
SP-01	01	110/43	Acres	23
SP-06	06	110/4, 110/14	Acres	20
SP-07	07	110/6, 110/19	Acres	14
SP-09	09	111/1, 111/2	Acres	34

Technical Specifications for the Treatment:**A. Site Preparation for Aspen Natural Regeneration**

- 1) All live tree species over 4 feet tall and up to 4.9 inches DBH (except aspen up to 2 inches DBH) shall be cut.
- 2) Small clumps of young balsam, hemlock or other conifer species should be maintained where they occur in the aspen clearcut after the timber sale is complete. Retain two to three small clumps of low, dense conifers (about 100 square feet to 1000 square feet in size) per acre, as available, in a manner that still meets aspen regeneration objectives for the stand.
- 3) Shrubs are not required to be cut.
- 4) Annuals such as grasses, sedges, ferns, etc. are not required to be cut.
- 5) Do not cut standing dead trees unless they present a safety hazard to operations.

B. Felling Specifications

- 1) All trees required to be cut shall be cut below the lowest live limb except when prevented by natural obstacles.
- 2) Trees required to be cut shall be completely severed from the stump and lie flat on the ground. No tops shall be left hanging in standing trees.
- 3) The stump height of cut trees shall not exceed 6 inches above the ground level on the high side of the stump, or 4 inches above natural obstacles.
- 4) The cut angle of such stumps shall not exceed 20 degrees measured from a horizontal plane extending from the stump at ground level.
- 5) No boundary trees shall be cut or damaged. Boundary trees (KT-CT.3) are defined by 3 ORANGE paint slashes at eye level, with stump mark, for exterior boundaries or 2 ORANGE paint slashes at eye level, with stump mark, for interior boundaries.

C. Equipment Requirements.

- 1) The Contractor will provide cutting tools and equipment that are suitable for the job.

- 2) All power tools shall be equipped with Forest Service approved spark arrestors and in good working condition.

D. Road Use and Maintenance.

- 1) All roads leading into each project area are to be kept open and free of any debris that may occur as a result of the work.
- 2) All roads used by the Contractor will comply with Special Provisions KT-FT.1.2# - Use of Roads by Contractor and KT-FT.3.1# - Road Maintenance Requirements of this Contract.

E. Slash Treatment.

- 1) All existing slash and slash resulting from the Contractor's operations shall be pulled back at least 10 feet from perennial and intermittent stream courses, lakes, ponds, vernal ponds, culverts, and boundaries adjacent to private land.
- 2) All slash resulting from the Contractor's operations shall comply with existing Slash Disposal Measures (Special Provision KT-GT.7#) within the Timber Sale Contract.

**Flash Stewardship
SPECIFIED ROAD WORK SCHEDULE OF ITEMS**

Date: 10/21/2015

Page 1 of 2

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 2240-J	R			D		
	MP 0.0-0.33						
249(02)	Composite Road Construction: Reconstruct existing road in accordance with the specifications and standard plans.		Mile/ DQ	0.33		\$4,500.00	\$1,485.00
					FR 2240-J segment = \$1,485.00		
	FR 2249						
	MP 0.0-0.43	R			D		
249(02)	Composite Road Construction: Reconstruct existing road in accordance with the specifications and standard plans.		Mile/ DQ	0.43		\$4,000.00	\$1,720.00
					FR 2249 segment = \$1,720.00		
Total Specified Roadwork Appraisal = \$3,205.00							

¹C = Construction ³D = Dry Summer¹R = Reconstruction ³S = Summer²Method of Measure³W = Winter

Prepared by: Tom Roberts, Engineering Representative

FLASH STEWARDSHIP

SPECIFIED ROAD APPRAISAL NOTES

- NOTE: All finished roadbeds shall be 12' as shown in the typical detail for crowned roads with no ditches or out sloped roads.
- NOTE: During clear and grub operations all slash resulting from purchasers operation shall be treated as per KT-GT 6.7#.
- NOTE: Reconstruction of the existing roads includes curve realignment and grade corrections; conform to the typical detail for a crown with no ditches or out sloped roads. Minimize shaping to preserve the compacted road bed and overburden soils. Salvage overburden soils from realignment areas to spread on new grade.
- NOTE: Additional outlet or lead out ditches may be required at road segment locations to allow for proper drainage needs. Locations for placement shall be determined by the Forest Service and are included in the appraised allowance for clearing and shaping.
- NOTE: There may be underground utility lines in unknown locations on this project. **Call MISS DIG three full working days before any work begins.** Phone 1-800-482-7171.

Standard Specifications for Construction of Roads & Bridges on Federal Highway Projects

Specification List

Project Name: Flash Stewardship Sale

Date Prepared: 10/21/2015

Road Numbers: FR 2240-J FR 2249		FR 2240-J	FR 2249	
Road Name:	Termini...	0.0-0.33	0.0-0.43	
	Construction Reconstruction	--- 0.33	--- 0.43	
Spec. No.	Title			Latest Revised Edition
101 thru 109	General Requirements	X		2003

Note: The Forest Service, U.S. Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

FLASH STEWARDSHIP

SUPPLEMENTAL SPECIFICATIONS

Section 101-109	General Requirements
Section 249	Composite Road Construction

Preface

Preface_wo_03_15_2004_m

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

101 - Terms, Format, and Definitions

101.00_nat_us_07_25_2005

101.01_nat_us_01_22_2009

101.01 Meaning of Terms

Delete all references to the TAR (Transportation Acquisition Regulations) in the specifications.

101.01_nat_us_01_22_2009

101.01 Meaning of Terms

Delete all references to the FAR (Federal Acquisition Regulations) in the specifications.

101.03_nat_us_06_16_2006

101.03 Abbreviations.

Add the following to (a) Acronyms:

AFPA	American Forest and Paper Association
MSHA	Mine Safety and Health Administration
NIST	National Institute of Standards and Technology
NESC	National Electrical Safety Code
WCLIB	West Coast Lumber Inspection Bureau

.

Add the following to (b) SI symbols:

mp	Milepost
ppm	Part Per Million

101.04_nat_us_03_29_2007

101.04 Definitions.

Delete the following definitions and substitute the following:

Bid Schedule--The Schedule of Items.

Bridge--No definition.

Contractor--The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the "purchaser".

Culvert--No definition.

Right-of-Way--A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

Add the following:

Adjustment in Contract Price--"Equitable adjustment," as used in the Federal Acquisition Regulations, or "construction cost adjustment," as used in the Timber Sale Contract, as applicable.

Change--"Change" means "change order" as used in the Federal Acquisition Regulations, or "design change" as used in the Timber Sale Contract.

Design Quantity--"Design quantity" is a Forest Service method of measurement from the FS-96 *Forest Service Specifications for the Construction of Roads and Bridges*. Under these FP specifications this term is replaced by the term "Contract Quantities".

Forest Service--The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line--A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road--Temporary construction access built along the route of the project.

Purchaser--The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

Protected Streamcourse--A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

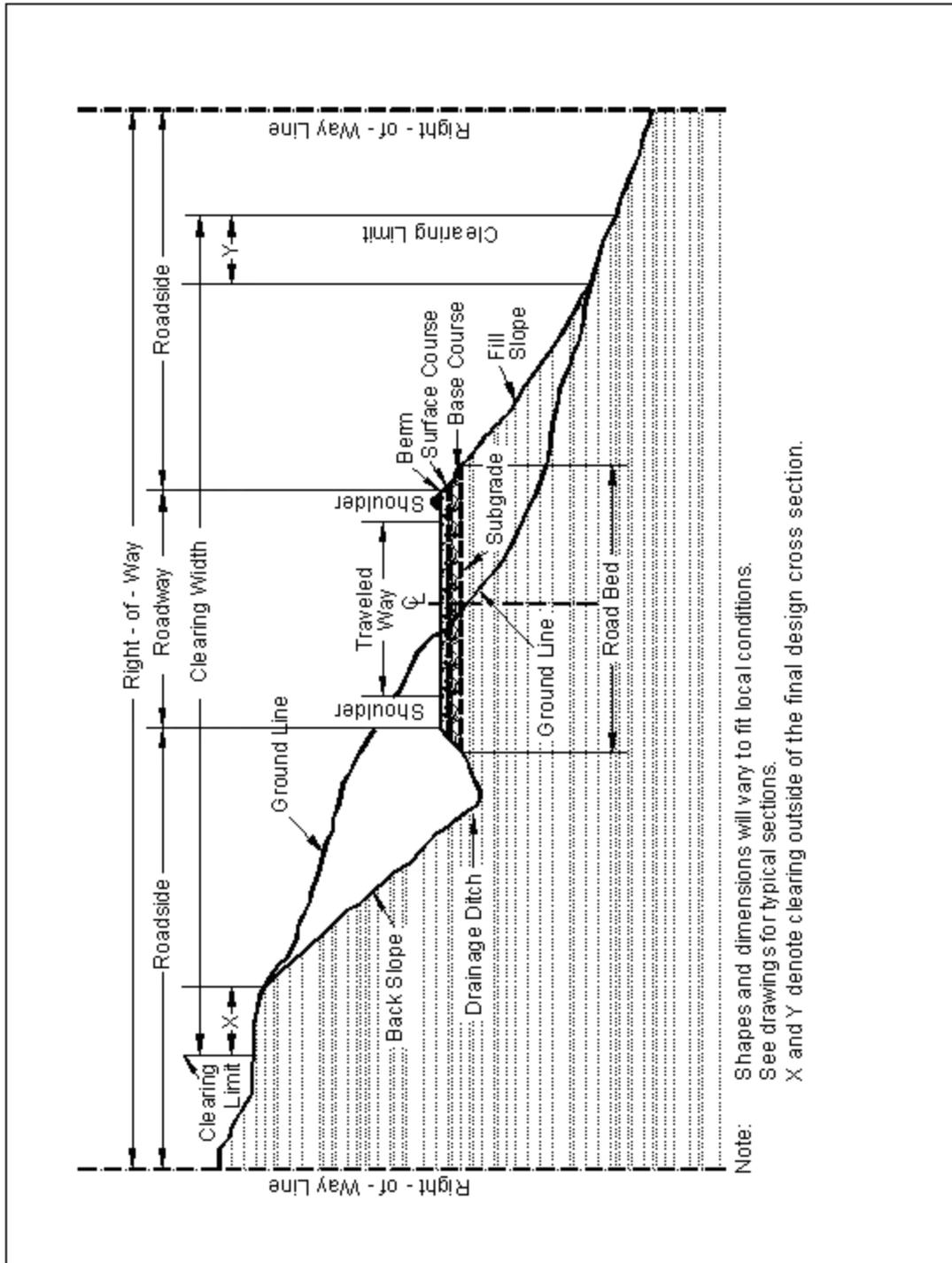
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

Schedule of Items--A schedule in the contract that contains a listing and description of construction items, quantities, units of measure, unit price, and amount.

Utilization Standards--The minimum size and percent soundness of trees described in the specifications to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

Figure 101-1—Illustration of road structure terms.



101.04 Definitions.

Delete the following definitions:

Contract Modification

Day

Notice to Proceed

Solicitation

102 - Bid, Award, and Execution of Contract

102.00_nat_us_02_16_2005

102 Bid, Award, and Execution of Contract

Delete Section 102 in its entirety.

103 - Scope of Work

103.00_nat_us_02_16_2005

Deletions

Delete all but subsection 103.01 Intent of Contract.

104 - Control of Work

104.00_nat_us_06_16_2006

Deletions

Delete Sections 104.01, 104.02, and 104.04.

104.03_nat_us_02_22_2005

104.03 Drawings and Specifications

Delete subsection 104.03

104.03_nat_us_01_22_2009

104.03 Specifications and Drawings.

Delete 104.03.

104.03_nat_us_02_22_2005

104.06 Use of Roads by Contractor

The Contractor is authorized to use roads under the jurisdiction of the Forest Service for all activities necessary to complete this contract, subject to the limitations and authorizations designated in the Road Order(s) or described in the contract, when such use will not damage the roads or national forest resources, and when traffic can be accommodated safely.

105 - Control of Material

105.02_nat_us_02_17_2005

105.05 Use of Material Found in the Work.

Delete 105.05 (a) and (b) and the last sentence of the second paragraph and substitute the following:

Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. The Government is not obligated to make reimbursement for the cost of producing these materials.

106 - Acceptance of Work

106.01_nat_us_01_17_2013

106.01 Conformity with Contract Requirements.

Delete Subsection 106.01 and substitute the following:

References to standard test methods of AASHTO, ASTM, GSA, and other recognized standard authorities refer to the methods in effect on the date of solicitation for bids.

Perform all work to the lines, grades, cross-sections, dimensions, and processes or material requirements shown on the plans or specified in the contract.

Incorporate manufactured materials into the work according to the manufacturer's recommendations or to these specifications, whichever is more strict.

Plan dimensions and contract specification values are the values to be strived for and complied with as the design values from which any deviations are allowed. Perform work and provide material that is uniform in character and reasonably close to the prescribed value or within the specified tolerance range. The purpose of a tolerance range is to accommodate occasional minor variations from the median zone that are unavoidable for practical reasons.

When standard manufactured items are specified (such as fence, wire, plates, rolled shapes, pipe conduits, etc., that are identified by gauge, unit mass, section dimensions, etc.), the identification will be considered to be nominal masses or dimensions. Unless specific contract tolerances are noted, established manufacturing tolerances will be accepted.

The Government may inspect, sample, or test all work at any time before final acceptance of the project. When the Government tests work, copies of test reports are furnished to the Contractor upon request. Government tests may or may not be performed at the work site. If Contractor testing and inspection is verified by the Government, the Contractor's results may be used by the Government to evaluate work for acceptance. Do not rely on the availability of Government test results for process control.

Acceptable work conforming to the contract will be paid for at the contract unit bid price. Four methods of determining conformity and accepting work are described in Subsections 106.02 to 106.05 inclusive. The primary method of acceptance is specified in each Section of work. However, work may be rejected at any time it is found by any of the methods not to comply with the contract.

Remove and replace work that does not conform to the contract, or to prevailing industry standards where no specific contract requirements are noted, at no cost to the Government.

- (a) Disputing Government test results. **If the accuracy of Government test results is disputed, promptly inform the CO. If the dispute is unresolved after reasonable steps are taken to resolve the dispute, further evaluation may be obtained by written**

request. Include a narrative describing the dispute and a proposed resolution protocol that addresses the following:

- (1)** Sampling method;
- (2)** Number of samples;
- (3)** Sample transport;
- (4)** Test procedures;
- (5)** Testing laboratories;
- (6)** Reporting;
- (7)** Estimated time and costs; and
- (8)** Validation process.

If the evaluation requires additional sampling or testing be performed, mutually agree with the Government on witnessing procedures and on sampling and testing by a third party laboratory. Use a third party laboratory accredited by the AASHTO accreditation program. Provide proof of the laboratory's accreditation for the test procedures to be used. Do not use the same laboratory that produced the disputed Government test results or that produced the test results used as a basis for the dispute.

The CO will review the proposed resolution protocol and may modify it before final approval and execution.

The Government will use the approved resolution protocol test results to determine the validity of the disputed testing. If the Government test results are validated, the Contractor will be responsible for all costs associated with developing and performing the resolution protocol. If the Government test results are not validated, the Government will be responsible for all costs associated with developing and performing the resolution protocol. If the validity of the Government test results cannot be determined, the Contractor and Government will equally share all costs associated with developing and carrying out the resolution protocol.

(b) Alternatives to removing and replacing non-conforming work. As an alternative to removal and replacement, the Contractor may submit a written request to:

- (1)** Have the work accepted at a reduced price; or
- (2)** Be given permission to perform corrective measures to bring the work into conformity.

The request must contain supporting rationale and documentation. Include references or data justifying the proposal based on an evaluation of test results, effect on service life, value of material or work, quality, aesthetics, and other tangible engineering basis. The CO will determine disposition of the nonconforming work.

106.07_nat_us_05_11_2004

106.07 Delete

Delete subsection 106.07.

107 - Legal Relations and Responsibility to the Public

107.05_nat_us_05_11_2004

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.06_nat_us_06_16_2006

107.06 Contractor's Responsibility for Work.

Delete the following from the first paragraph.

“except as provided in Subsection 106.07”.

107.08_nat_us_03_29_2005

107.08 Sanitation, Health, and Safety

Delete the entire subsection.

107 - Legal Relations and Responsibility To the Public

107.08_nat_us_05_11_2004

107.08 Sanitation, Health, and Safety.

Add the following:

Perform all operations in a prudent, conscientious, safe and professional manner. Ensure that all personnel involved in handling and packaging the hazardous waste are trained for the level of expertise required for the proper performance of the task and, in particular, in the areas of chemical incompatibility, general first aid procedures, and spills. Provide handling and personal protective equipment appropriate to ensure safe handling of the hazardous waste according to 29 CFR 1910.120}. Notify the Forest Service of all hazardous material that may be brought onto the National Forest.

107 - Legal Relations and Responsibility to the Public

107.09_nat_us_06_16_2006

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

107.10_nat_us_06_16_2006

107.10 Environmental Protection.

Add the following:

Design and locate equipment repair shops, stationary refueling sites, or other facilities to minimize the potential and impacts of hazardous material spills on Government land.

Before beginning any work, submit a Hazardous Spill Plan. List actions to be taken in the event of a spill. Incorporate preventive measures to be taken, such as the location of mobile refueling facilities, storage and handling of hazardous materials, and similar information. Immediately notify the CO of all hazardous material spills. Provide a written narrative report form no later than 24 hours after the initial report and include the following:

- Description of the item spilled (including identity, quantity, manifest number, and other identifying information).
- Whether amount spilled is EPA or state reportable, and if so whether it was reported, and to whom.
- Exact time and location of spill including a description of the area involved.
- Containment procedures.
- Summary of any communications the Contractor had with news media, Federal, state and local regulatory agencies and officials, or Forest Service officials.
- Description of clean-up procedures employed or to be employed at the site including final disposition and disposal location of spill residue.

When available provide copies of all spill related clean up and closure documentation and correspondence from regulatory agencies.

The Contractor is solely responsible for all spills or leaks that occur during the performance of this contract. Clean up spills or leaks to the satisfaction of the CO and in a manner that complies with Federal, state, and local laws and regulations.

108 - Prosecution and Progress

108.00_nat_us_02_16_2005

108 Delete.

Delete Section 108 in its entirety.

109 - Measurement and Payment

109.00_nat_us_02_17_2005

109 Deletions

Delete the following entire subsections:

109.06 Pricing of Adjustments.

109.07 Eliminated Work.

109.08 Progress Payments.

109.09 Final Payment.

109.02_nat_us_06_16_2006

109.02 Measurement Terms and Definitions.

(b) Contract quantity.

Add the following:

Contract quantities will be adjusted only when there are errors in the original design of 15% or more.

Change the following:

“(b) Cubic yard” to “(c) Cubic yard”.

Add the following definition:

(p) Thousand Board Feet (Mbf). 1,000 board feet based on nominal widths, thickness, and extreme usable length of each piece of lumber or timber actually incorporated in the job. For glued laminated timber, 1,000 board feet based on actual width, thickness, and length of each piece actually incorporated in the job.

109.03_nat_us_02_17_2005

249 - Composite Road Construction

Description

249.01 This work consists of clearing and grubbing, excavation and embankment, and removal of all construction slash including all trees designated for removal. Excavation and embankment includes on site borrow excavation; drainage excavation; placing all excavated material; and shaping the roadway; including approaches, turnarounds, ditches and drainage dips. Construct the roadway in conformance with the dimensions “shown on the plans” or as staked on the ground.

Construction Requirements

249.02 Clearing & Disposal

Protect construction stakes and construction control markers. Remove or treat all trees, snags, downed timber, brush, and stumps within the clearing limits according to the following specifications.

(a) Merchantable Timber. Treat according to the Utilization Standards of the Timber Sale Contract.

(b) Unmerchantable Timber. Treat according to Subsection 249.02 Method A.

(c) Large Construction Slash. Treat construction slash larger than 3 inches in diameter and longer than 3 feet by one or more of the following methods.

(1) Method A. Construction slash shall be scattered outside the clearing limits without damaging trees outside the clearing area. Logs shall be placed away from trees, positioned so that they will not roll, not placed on top of one another or left leaning on other trees. Scattered stumps shall be placed in an upright position

(2) Method B. Stumps, roots, rocks, topsoil and other grubbing debris shall be concentrated in stump dump areas. Stump dump areas shall be located by the Engineer, be a maximum of 300 feet apart along the road centerline, and generally be located in natural depressions or tucked away behind denser vegetation or ground rises. Stump dumps will vary in size depending on each site, but shall not be closer than 10 feet outside of the clearing limits. Stump dump material shall be matted down as much as possible and shall not obstruct natural drainages.

(d) Small Construction Slash. Construction slash less than 3 inches in diameter and less than 3 feet in length may be incorporated into embankments so long as the material is distributed so that it does not result in concentrations or matting.

Immediately remove slash deposited in stream courses.

249.03 Pioneering.

Do not undercut the final back slope during pioneer operations. Deposite material inside the roadway limits. Do not restrict drainages.

249.04 Grubbing.

Grub within the specified limits. Stumps outside the grubbing limits remain if cut no higher than 1 foot or one-third of the stump diameter, whichever is greater, above the original ground, measured on the uphill side, unless otherwise designated. Grub all stumps from the Roadway, or stumps that have less than 1 foot of cover, in the Fill slopes, providing they do not interfere with the placement or compaction of

embankments.

249.05 Excavation and Embankment.

Construct the roadway to conform to the typical sections shown on the plans. Protect backslopes from being undercut. Embankment shall be placed in layers no more than 12 inches thick.

Locate and use borrow material, and remove and treat unsuitable excess material, as designated.

Place rocks that are too large to be incorporated in the embankment outside the traveled way on the downhill side such that they will not roll, obstruct drainage, or hinder roadbed use and maintenance.

Shape and finish the roadbed to the condition ordinarily accomplished by a crawler tractor with dozer blade to provide drainage of surface water. Do not permit individual rocks to protrude more than 4 inches above the subgrade of the roadbed. A motor grader finish is not required.

Observe a width tolerance of (+) 18 inches max. for the roadbed.

Where shown on the drawings or designated on the ground, offtake ditches shall be constructed to drain water away from the roadbed.

249.06 Erosion Control.

Perform erosion control measures, where shown on the drawings, or staked on the ground.

Measurement

249.07 Method.

Measure the section 249 items listed in the schedule of items according to subsection 109.02

Payment

249.08 Basis.

The accepted quantities will be paid at the contract price per unit of measurement for Section 249 pay items listed in the Bid Schedule. Payment will be full compensation for the work prescribed in this section. See Subsection 109.05

SUPPLEMENTAL SPECIFICATION

PREFACE

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

SUPPLEMENTAL SPECIFICATION

Section 101 – TERMS, FORMAT, AND DEFINITIONS

101.01 Meaning of Terms.

Add the following:

Delete all references in FP-03 to Transportation Acquisition Regulations (TAR). For Timber Sales, delete all references in FP-03 to Federal Acquisition Regulations (FAR).

101.03 Abbreviations.

Add the following to (a) Acronyms:

AFPA	American Forest and Paper Association
MSHA	Mine Safety and Health Administration
NIST	National Institute of Standards and Technology
NESC	National Electrical Safety Code
WCLIB	West Coast Lumber Inspection Bureau

Add the following to (b) SI Symbols:

mp	Milepost
ppm	Part Per Million

101.04 Definitions.

Delete the following definitions and substitute the following:

Bid Schedule--The Schedule of Items.

Bridge--No definition.

Contractor--The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the "purchaser".

Culvert--No definition.

Right-of-Way--A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

Add the following:

Adjustment in Contract Price--"Equitable adjustment," as used in the Federal Acquisition Regulations, or "construction cost adjustment," as used in the Timber Sale Contract, as applicable.

Change--"Change" means "change order" as used in the Federal Acquisition Regulations, or "design change" as used in the Timber Sale Contract.

Design Quantity-- "Design quantity" is a Forest Service method of measurement from the FS-96 *Forest Service Specifications for the Construction of Roads and Bridges*. Under these FP specifications this term is replaced by the term "Contract Quantities".

Forest Service--The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line--A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road--Temporary construction access built along the route of the project.

Purchaser--The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

Protected Streamcourse--A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

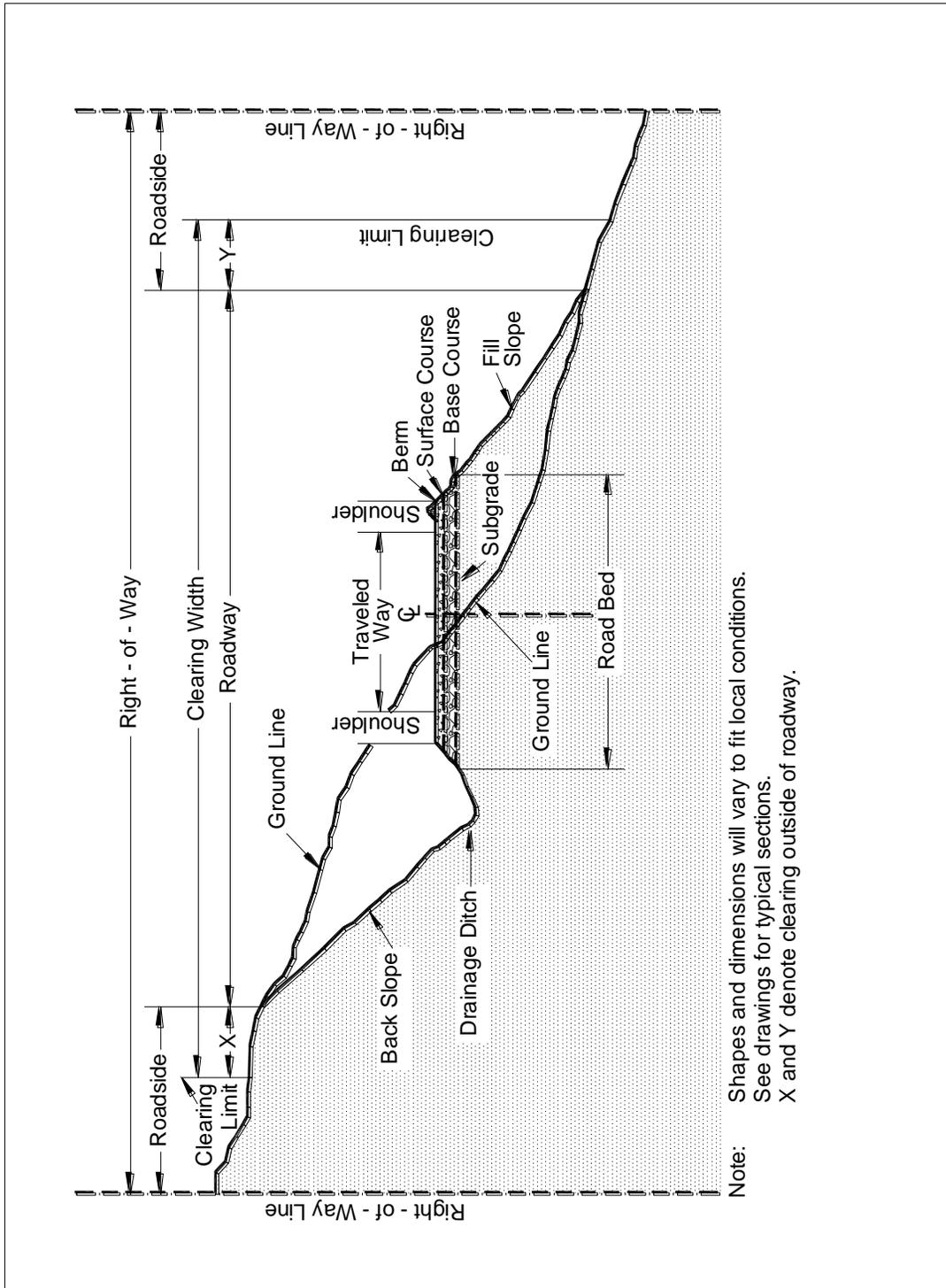
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

Schedule of Items--A schedule in the contract that contains a listing and description of construction items, quantities, units of measure, unit price, and amount.

Utilization Standards--The minimum size and percent soundness of trees described in the specifications to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

Figure 101-1—Illustration of road structure terms.



SUPPLEMENTAL SPECIFICATION

Section 102 – BID, AWARD, AND EXECUTION OF CONTRACT

102 Delete

Delete Section 102 in its entirety.

SUPPLEMENTAL SPECIFICATION

Section 103 – SCOPE OF WORK

103 Delete

Delete all but subsection 103.01 Intent of Contract.

SUPPLEMENTAL SPECIFICATION

Section 105- CONTROL OF MATERIAL

105.02 Material Sources.

105.02(a) Government Provided Sources.

Add the following:

Comply with the requirements of 30 CFR 56, subparts B and H. Use all suitable material for aggregate regardless of size unless otherwise designated. When required, re-establish vegetation in disturbed areas according to section 625.

Government-provided optional sources for this project are identified as follows:

Material is available for use as pit run gravel as needed for the project from the Six Mile Pit, T.46N., R.37W., Section 1. There is no charge for material taken from these pits for use on this project.

Aggregate Surface Course material from: **there is no government source available**

105.05 Use of Material Found in the Work.

Delete 105.05 (a) and (b) and the last sentence of the second paragraph and substitute the following:

Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. The Government is not obligated to make reimbursement for the cost of producing these materials.

SUPPLEMENTAL SPECIFICATION

Section 106- ACCEPTANCE OF WORK

106.05 Statistical Evaluation of Work and Determination of Pay Factor (Value of Work).

Delete subsection 106.05 (Do not delete for paving projects)

106.07 Partial and Final Acceptance.

Delete subsection 106.07

SUPPLEMENTAL SPECIFICATION

Section 107- LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

SUPPLEMENTAL SPECIFICATION

Section 108- PROSECUTION AND PROGRESS

Delete Section 108 in its entirety.

SUPPLEMENTAL SPECIFICATION

Section 109- MEASUREMENT AND PAYMENT

109.02 Measurement Terms and Definitions

Add: One of the following methods of measurement for determining final payment is DESIGNATED on the SCHEDULE OF ITEMS for each pay item:

- (a) Designated Quantities (DQ). These quantities denote the final number or units to be paid for under the terms of the contract. They are based upon the original design data available prior to advertising the project. Original design data include the preliminary survey information, design assumptions, calculations, drawings, and the presentation in the contract. Changes in the number of units SHOWN in the SCHEDULE OF ITEMS may be authorized under any of the following conditions:
- (1) As a result of changes in the work authorized by the Contracting Officer.
 - (2) As a result of the Contracting Officer determining that errors exist in the original design that cause a pay item quantity to change by 15 percent or more.
 - (3) As a result of the contractor submitting to the Contracting Officer a written request showing evidence of errors in the original design that cause a pay item quantity to change by 15 percent or more. The evidence must be verifiable and consist of calculations, drawings, or other data that show how the designated quantity is believed to be in error.
- (b) Staked Quantities (SQ). These quantities are determined from staked measurements prior to construction.
- (c) Actual Quantities (AQ). These quantities are determined from measurements of completed work.
- (d) Vehicle Quantities (VQ). These quantities are measured or weighed in hauling vehicles.
- (e) Lump Sum Quantities (LSQ). These quantities denote one complete unit of work as required by or described in the contract, including necessary materials, equipment, and labor to complete the job. They will not be measured.

SUPPLEMENTAL SPECIFICATION

Section 204-EXCAVATION AND EMBANKMENT

204.05 Conserved Topsoil.

Delete the subsection.

204.09 Preparing Foundation for Embankment Construction.

Delete subsection (a) and replace it with the following:

(a) Embankment less than 4 feet high over natural ground. When designated, remove topsoil and break up the ground surface to a minimum depth of 6 inches by plowing or scarifying. Compact the ground surface according to Subsection 204.11.

204.10 Embankment Construction.

Add the following:

When an embankment is to be placed across swampy ground and removal of unsuitable material or subgrade treatment is not required, the lower part of the embankment shall be constructed in a single layer to the minimum depth necessary to support construction equipment.

(c) Individual rock fragments and boulders.

Add the following:

(5) Such rocks and boulders shall be at least 6 inches below subgrade.

204.11 Compaction.

Add the following:

All embankments shall be placed and compacted by one or more of the following methods as SHOWN ON THE DRAWINGS and listed in the SCHEDULE OF ITEMS.

Add the following compaction method:

(d) Layer Placement Method (Hauling and Spreading Equipment). Place material by end dumping to the minimum depth needed for operation of spreading equipment. Level and smooth each embankment layer before placing the next layers. Operate hauling and spreading equipment uniformly over the full width of each layer. Construct a solid embankment with adequate compaction by working smaller rock and fines in with the larger rocks to fill the voids, and by operating hauling and spreading equipment uniformly over the full width of each layer as the embankment is constructed.

(e) Layer Placement Method (Roller Compaction). Place material by end dumping to the minimum depth needed for operation of spreading equipment. Adjust the moisture content of the material to obtain a mass that will not visibly deflect under the load of the hauling and spreading equipment. Operate compaction equipment over the full width of each layer until visible deformation of the layer ceases or, in when a sheepsfoot roller is used, the roller “walks out” of the layer. Make at least three complete passes.

204.13 Sloping, Shaping, and Finishing.

(a) Sloping.

Add the following:

Slope rounding is not required on tolerance class D though M roads.

(c) Shaping.

Add the following:

When excavation is measured on a station basis, excavating, placing of embankment, and shaping and compacting the roadway template shall include only those areas where cuts and fills are generally less than five feet in depth as measured from the finished shoulder grade to the top of the adjacent cut or toe of fill. These areas of station grading shall consist of light dozing or grading of such character that the excavation from backslopes, ditches, and roadbed shall be used in shaping the subgrade, shoulders, and adjacent fills.

When excavation is measured by the station (station grading) as designated in the SCHEDULE OF ITEMS, turnouts, side entrances, approaches, radii and T-turnarounds shall not be measured separately, but will be included as part of the station measurement along the construction centerline.

This work shall include all necessary scarifying, dozing, disking, moving, shaping, and compacting to develop the cross-sections SHOWN ON THE DRAWINGS. Loading and hauling will not be included or required in the work.

Compaction of the subgrade shall be accomplished with the construction and hauling equipment.

Delete section (d) and add the following:

(d) Finishing. For surfaced roads, remove all material larger than 6 inches from the top 6 inches of the roadbed. For all roads, finish the roadbed to be smooth and uniform, and shaped to conform to the typical sections. Remove unsuitable material from the roadbed and replace it with suitable material. Finish roadbeds to the tolerance class shown in table 204-2. Ensure that the subgrade for both surfaced and unsurfaced roads is visibly moist during shaping and dressing. Bring low sections, holes, cracks, or depressions to grade with suitable material. Maintain proper ditch drainage.

For unsurfaced roads, use one of the following methods to finish the roadbed

- (1) Method A. Remove all material larger than 6 inches from the top 6 inches of the roadbed and replace with suitable material.
- (2) Method B. Use a vibratory grid roller or approved equal with a minimum weight of 10 tons. Roll at least 5 full-width passes or until visible displacement ceases.
- (3) Method C. For roads designated as Construction Tolerance Class K, L, or M, finish the roadbed by spreading the excavation. Eliminate rock berms.

Add Table 204-2—Construction Tolerances:

Table 204-2 Construction tolerances.

	Tolerance Class ^(a)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
Roadbed width (ft)	+0.5	+0.5	+1.0	+1.0	+1.0	+1.0	+1.5	+1.0	+2.0	+2.0	+2.0	+2.0	+2.0
Subgrade elevation (ft)	±0.1	±0.2	±0.2	±0.5	+0.5	±1.0	±1.0	±1.5	±2.0	±3.0	±2.0	±3.0	(c)
Centerline alignment (ft)	±0.2	±0.2	±0.5	±0.5	±1.0	±1.0	±1.5	±1.5	±2.0	±3.0	±3.0	±5.0	(c)
Slopes, excavation, and embankment (% slope ^(b))	±3	±5	±5	±5	±5	±5	±10	±10	±10	±10	±20	±20	±20

- a. Maximum allowable deviation from construction stakes and drawings.
- b. Maximum allowable deviation from staked slope measured from slope stakes or hinge points.
- c. Unless otherwise shown the centerline alignment and subgrade elevation, as built, have no horizontal curves with a radius of less than 80 feet, and no vertical curves with a curve length of less than 80 feet when the algebraic difference in the grade change is less than 10 percent, or a curve length of less than 100 feet when the algebraic difference of the grade change is greater

than or equal to 10 percent. The centerline grade is not to exceed 20 percent in 100 feet of length.

204.16

(b) Unclassified borrow, select borrow, and select topping.

Add the following:

When borrow is designated as a pay item by the cubic yard in the SCHEDULE OF ITEMS, measurement will be in the final position.

SUPPLEMENTAL SPECIFICATION

Section 249. – COMPOSITE ROAD CONSTRUCTION

Description

249.01 This work consists of clearing and grubbing, excavation and embankment, and removal of all construction slash including all trees designated for removal. Excavation and embankment includes on site borrow excavation; drainage excavation; placing all excavated material; and shaping the roadway; including approaches, turnarounds, ditches and drainage dips. Construct the roadway in conformance with the dimensions “shown on the plans” or as staked on the ground.

Construction Requirements

249.02 Clearing & Disposal

Protect construction stakes and construction control markers. Remove or treat all trees, snags, downed timber, brush, and stumps within the clearing limits according to the following specifications.

(a) Merchantable Timber. Treat according to the Utilization Standards of the Timber Sale Contract.

(b) Unmerchantable Timber. Treat according to Subsection 249.02 Method A.

(c) Large Construction Slash. Treat construction slash larger than 3 inches in diameter and longer than 3 feet by one or more of the following methods.

(1) Method A. Construction slash shall be scattered outside the clearing limits without

damaging trees outside the clearing area. Logs shall be placed away from trees, positioned so that they will not roll, not placed on top of one another or left leaning on other trees. Scattered stumps shall be placed in an upright position.

(2) Method B. Stumps, roots, rocks, topsoil and other grubbing debris shall be concentrated in stump dump areas. Stump dump areas shall be located by the Engineer, be a maximum of 300 feet apart along the road centerline, and generally be located in natural depressions or tucked away behind denser vegetation or ground rises. Stump dumps will vary in size depending on each site, but shall not be closer than 10 feet outside of the clearing limits. Stump dump material shall be matted down as much as possible and shall not obstruct natural drainages.

(d) Small Construction Slash. Construction slash less than 3 inches in diameter and less than 3 feet in length may be incorporated into embankments so long as the material is distributed so that it does not result in concentrations or matting.

Immediately remove slash deposited in stream courses.

249.03 Pioneering.

Do not undercut the final back slope during pioneer operations. Deposit material inside the roadway limits. Do not restrict drainages.

249.04 Grubbing.

Grub within the specified limits. Stumps outside the grubbing limits remain if cut no higher than 1 foot or one-third of the stump diameter, whichever is greater, above the original ground, measured on the uphill side, unless otherwise designated. Grub all stumps from the Roadway, or stumps that have less than 1 foot of cover, in the Fill slopes, providing they do not interfere with the placement or compaction of embankments.

249.05 Excavation and Embankment.

Construct the roadway to conform to the typical sections shown on the plans. Protect backslopes from being undercut. Embankment shall be placed in layers no more than 12 inches thick.

Locate and use borrow material, and remove and treat unsuitable excess material, as designated.

Place rocks that are too large to be incorporated in the embankment outside the traveled way on the downhill side such that they will not roll, obstruct drainage, or hinder roadbed use and maintenance.

Shape and finish the roadbed to the condition ordinarily accomplished by a crawler tractor with dozer blade to provide drainage of surface water. Do not permit individual rocks to protrude more than 4 inches above the subgrade of the roadbed. A motor grader finish is not required.

Observe a width tolerance of (+) 18 inches max. for the roadbed.

Where shown on the drawings or designated on the ground, offtake ditches shall be constructed to drain water away from the roadbed.

249.06 Erosion Control.

Perform erosion control measures, where shown on the drawings, or staked on the ground.

Measurement

249.07 Method.

Measure the section 249 items listed in the schedule of items according to subsection 109.02

Payment

249.08 Basis.

The accepted quantities will be paid at the contract price per unit of measurement for Section 249 pay items listed in the Bid Schedule. Payment will be full compensation for the work prescribed in this section. See Subsection 109.05

SUPPLEMENTAL SPECIFICATION

Section 602- CULVERTS AND DRAINS

Description

602.01 Delete 602.01 in its entirety and substitute with the following:

602.01 This work shall consist of furnishing and installing, or installing only, metal pipe and Corrugated High Density Polyethylene (HDPE) with smooth interior and pipe appurtenances, including all bedding and backfilling required to complete the work. The term metal refers to aluminum and steel.

Material

602.02 Add: Corrugated High Density Polyethylene Drainage Pipe shall meet the requirements of AASHTO M252, ASTM F405, and ASTM 667 and be non – perforated. Advance Drainage systems N – 12 pipe meets these requirements.

602.03 General.

Add the following:

Ensure that the final installed alignment of all pipe allows no reverse grades, and does not permit horizontal and vertical alignments to vary from a straight line drawn from center of inlet to center of outlet by more than 2 percent of pipe center length or 1.0 foot, whichever is less. Backfill material shall be readily compactible material free of frozen lumps, chunks of highly plastic clay (Plasticity Index greater than 10), or other objectional material. Rocks larger than 3 inches in greatest dimension shall not be used within 1 foot of the pipe.

Payment

When materials are produced and furnished by the Forest Service, the note “Government furnished materials” will be added to the description of the pay item.

SUPPLEMENTAL SPECIFICATION

Section 650— ROAD CLOSURE DEVICES

Description

650.01 Work. Furnish and install, or install only, road closure devices using fabricated gates and accessories, combination post and rail barriers, concrete barriers, earth mound barriers, and other devices.

Materials

650.02 Requirements.

Furnish concrete that meets the requirements of Subsection 601.03, method B or C.

Construct earth mound barriers from excavated material adjacent to the barrier location, or from other designated locations.

Construction

650.03 Performance. Place road closure devices at designated locations. Construct all devices to the required dimensions. In assembling gates, perform required welding in accordance with the best modern practice and the applicable requirements of AWS D1.1.

After assembly, clean non-galvanized steel pipe gates and paint them with one coat of zinc-rich primer and two coats of exterior enamel of the required type and color.

Set all posts vertically and embed them to the required depth. Place concrete for embedment against undisturbed earth within an excavation sized to achieve the embedment dimensions. Compact the backfill in 6 inch layers to finished grade.

Install all signs and/or reflective warning markers accessory to the road closure device as shown on DRAWINGS.

650.04 Acceptance. Construction of road closure devices will be evaluated under Subsections 106.02 and 106.04.

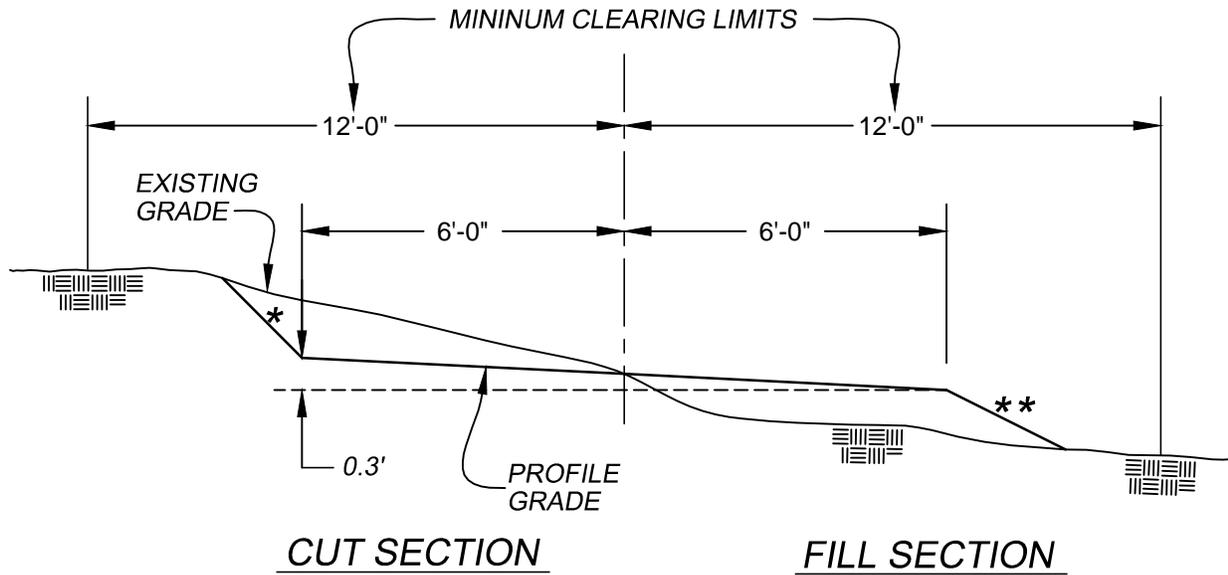
Measurement

650.05 Measure the items listed in the bid schedule according to Subsection 109.02.

Payment

650.06 The accepted quantities, measured as provided in Subsection 109.02 and above, will be paid at the contract price per unit of measurement for the Section 650 pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

When materials are produced and furnished by the Forest Service, the note "Government furnished materials" will be added to the description of the pay item.

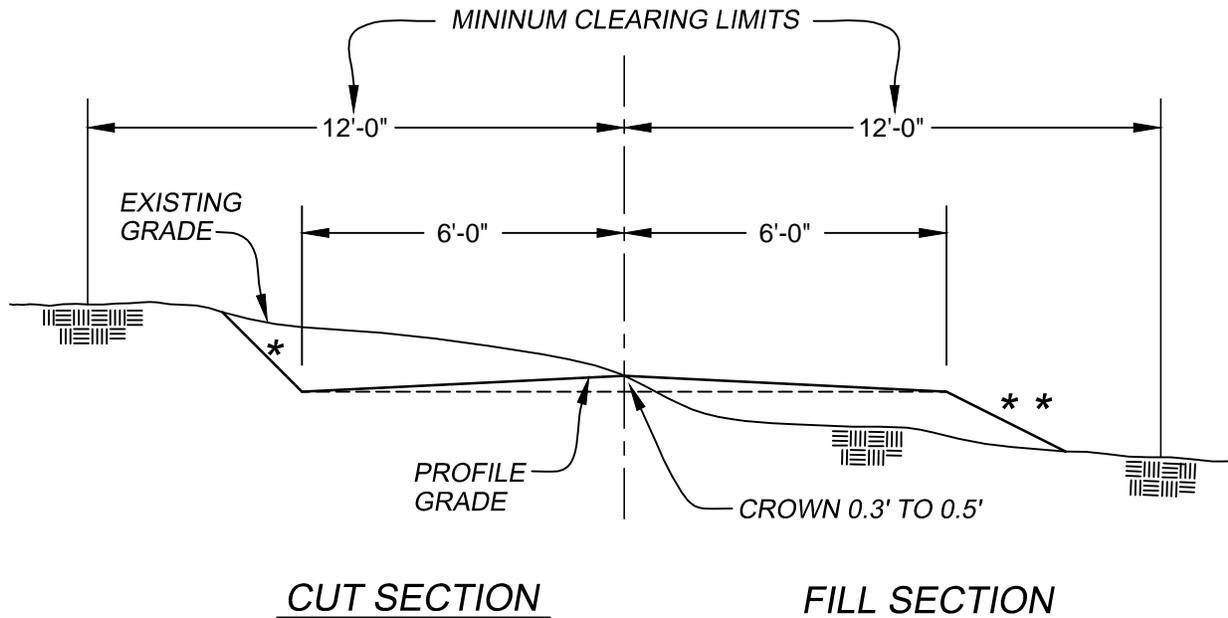


TYPICAL OUTSLOPE DETAIL

NOT TO SCALE

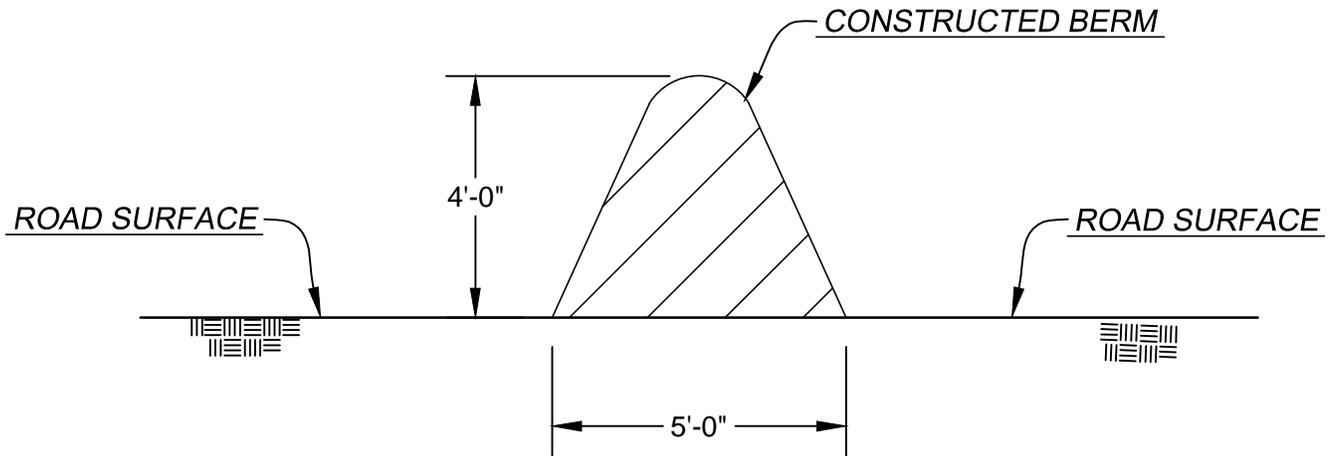
*BACKSLOPE AND DITCH SLOPES MAY VARY FROM 1H:1V TO 2H:1V WHEN CUTS ARE UNDER 2 FT. CUTS OVER 2 FT. SHALL HAVE SLOPES OF 2H:1V

**FILL SLOPES MAY VARY FROM 1-1/2H:1V TO 3H:1V



TYPICAL CROSS SECTION CROWN NO DITCHES

NOT TO SCALE

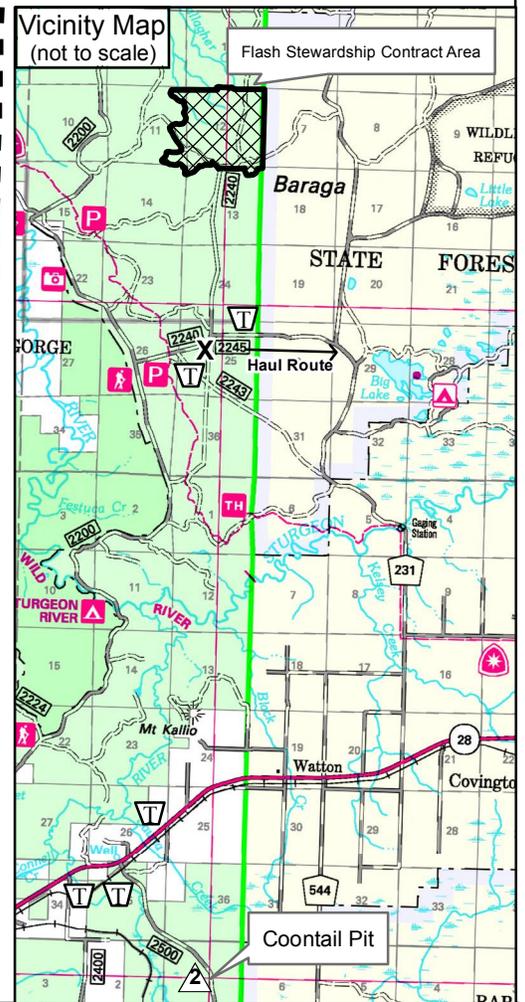
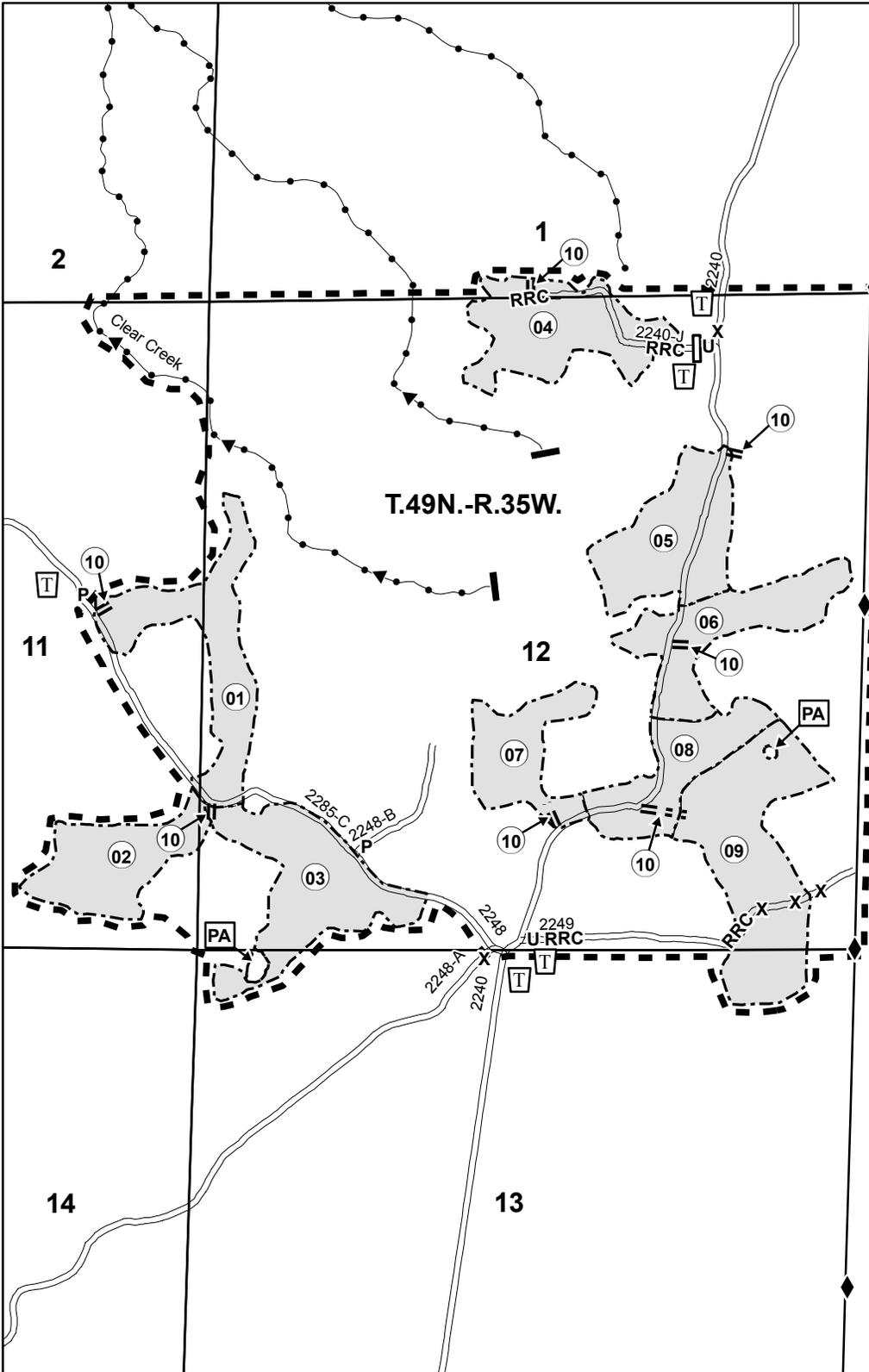


NOTE: BERM TO BE CONSTRUCTED WITH AVAILABLE BOULDERS FROM ROAD CONSTRUCTION AFTER SALE IS COMPLETED. IF ENOUGH BOULDERS ARE NOT AVAILABLE THE BERM SHOWN ABOVE WILL BE CONSTRUCTED WITH EARTH. BERM IS TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEERING REPRESENTATIVE.

TYPICAL BERM DETAIL
 NOT TO SCALE

Contract Area Map

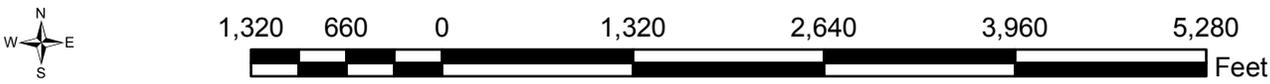
Flash Stewardship
 Ottawa National Forest
 Ontonagon Ranger District
 Compartment 110 & 111
 Baraga County
 Gross Sale Area = 732 acres
 Net Sale Area = 195 acres



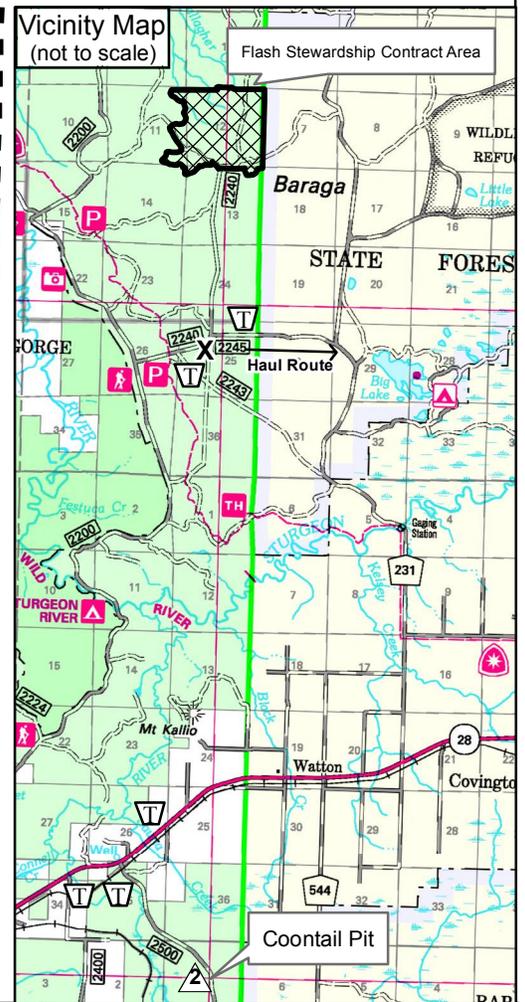
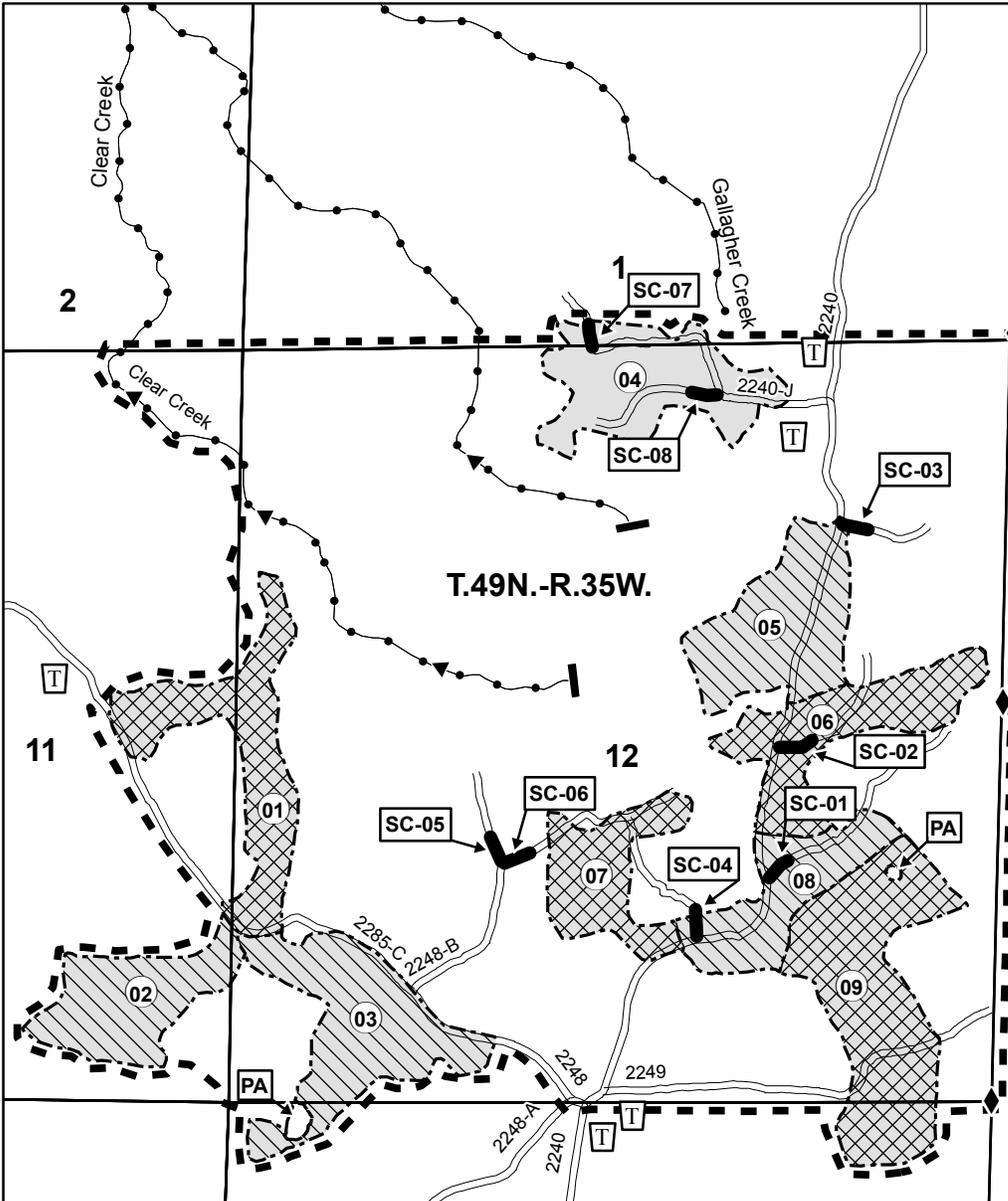
CTM applies to Payment Units 04, 07 & 10 (road ROW).
 (road ROW = FR 2240, 2240-J, 2248, 2249, 2285-C & those areas identified on the map).

DxSPP applies to Payment Units 01, 02, 03, 05, 06, 08, 09 (LT & CT)

SDZ applies to ALL Payment Units.
 SDZ(2) applies to Payment Units 01-09.



Contract Area Map
Stewardship Projects
 Flash Stewardship
 Ottawa National Forest
 Ontonagon Ranger District
 Compartment 110 & 111
 Baraga County
 Gross Sale Area = 732 acres
 Net Sale Area = 195 acres



Site Preparation for Birch Regeneration

- SB-02 applies to Payment Unit 02
- SB-03 applies to Payment Unit 03
- SB-05 applies to Payment Unit 05
- SB-08 applies to Payment Unit 08

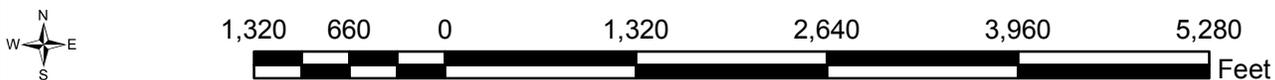
Site Preparation for Aspen Regeneration

- SP-01 applies to Payment Unit 01
- SP-06 applies to Payment Unit 06
- SP-07 applies to Payment Unit 07
- SP-09 applies to Payment Unit 09

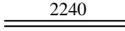
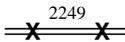
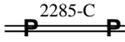
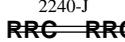
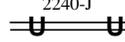
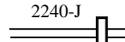
CTM applies to Payment Units 04, 07 & 10(road ROW).
 (road ROW = FR 2240, 2240-J, 2248, 2249, 2285-C & those areas identified on the map).

DxSPP applies to Payment Units 01, 02, 03, 05, 06, 08, 09 (LT & CT)

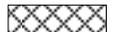
SDZ applies to ALL Payment Units.
 SDZ(2) applies to Payment Units 01-09.



LEGEND

	Contract Area Boundary, BT.1
	Payment Unit Boundary, BT.1
	Payment Unit Number, BT.1
CTM	Cut Tree Marked Prior to Advertisement, CT.3.5, KT-CT.3.5.5#, KT-GT.4.1.2
DxSPP	Designation By Species and Diameter, KT-CT.3.5.2#
	Existing Transportation System Road, FT.1.2, GT.2.2
	Existing Transportation System Road, Hauling Prohibited, FT.1.2, KT-FT.1.2#
	Existing Transportation System Road, Use Prohibited, FT.1.2, KT-FT.1.2#
	Specified Road Reconstruction, FT.2, KT-FT.3.1#
	Existing Transportation System Road, Unsuitable for hauling prior to completion of agreed reconstruction, FT.1.2, KT-FT.1.2#
	Purchaser Install Berm on System Road, FT.3, KT-FT.3.1#, T-8620
	Wetlands Protection, GT.6.2, KT-GT.6.2# Streamcourse Protection, GT.5 (block represents upper stream limit; arrow indicates flow direction)
SDZ	Slash Disposal, KT-GT.7#
SDZ(2)	Slash Disposal Zone, KT-GT.7#
	Protection of Land Survey Monuments (Monumented Corner), GT.2.3
PA	Protected Area, KT-CT.3.0.1#
	Material Source, Pit-Run Gravel, KT-FT.2.2.1# (Coontail Pit T47N-R35W, Section 1 - Pit-Run Gravel); KT-FT.3.1# (T8130)
	Safety, GT.3.3 – Contractor to Provide and Maintain Traffic Control Signs During Operations

SYMBOLS SPECIFIC TO SERVICE WORK ITEMS

	Road Decommissioning Slash Closure (Service Work items SC-01, SC-02, SC-03, SC-04, SC-05, SC-06, SC-07, & SC-08)
	Site Preparation for Birch Regeneration (Service Work items SB-02, SB-03, SB-05, & SB-08)
	Site Preparation for Aspen Regeneration (Service Work items SP-01, SP-06, SP-07, & SP-09)