

<b>Project Name:</b>	<b>Prichard – Murray Timber Sale</b>	<b>Road Number....</b>	<b>208B</b>	<b>978</b>	<b>6003</b>		<b>Revision</b>
<b>Date Prepared:</b>	7/26/07	<b>Const. -Reconst..</b>	R	R	R		<b>Date</b>
<b>Spec No.</b>	<b>Title</b>						
101	Abbreviations	X	X	X			4/1985
SPS 101	Abbreviations	X	X	X			()
102	Definitions	X	X	X			4/1985
SPS 102	Definitions	X	X	X			(4/96)
103	Intent of Contract	X	X	X			4/1985
SPS 103	Intent of Contract	X	X	X			()
104	Maintenance for Traffic	X	X	X			4/1985
SPS 104	Maintenance for Traffic	X	X	X			()
106	Measurement & Payment	X	X	X			4/1985
SPS 106	Measurement & Payment	X	X	X			()
173	Construction Staking, Location Line			X			4/1985
SPS 173	Construction Staking, Location Line			X			()
201	Clearing & Grubbing			X			4/1985
SPS 201	Clearing & Grubbing			X			()
SPS 201A	Roadway Brushing		X				()
203	Excavation & Embankment			X			4/1985
SPS 203	Excavation & Embankment			X			()
204	Soil Erosion & Water Pollution Control	X	X	X			4/1985
SPS 204	Soil Erosion & Water Pollution Control	X	X	X			()
205A	Haul			X			4/1985
SPS 205A	Haul			X			()
206A	Excavation for Culverts & Minor Structures	X					4/1985
SPS 206A	Excavation for Culverts & Minor Structures	X					()
SPS 299A	Composite Road Reconstruction	X					()
304	Aggregate Base or Surface Course			X			4/1985
SPS 304	Aggregate Base or Surface Course			X			()
306	Reconditioning Existing Road			X			4/1985
SPS 306	Reconditioning Existing Road			X			()
601	Mobilization	X	X	X			4/1985
SPS 601	Mobilization	X	X	X			()
603	Metal Pipe	X					4/1985
SPS 603	Metal Pipe	X					()
625	Seeding & Mulching			X			4/1985
SPS 625	Seeding & Mulching			X			()
640	Road Closure Devices			X			4/1985
SPS 640	Road Closure Devices			X			()
703	Aggregates			X			4/1985
707	Metal Pipe	X					4/1985
713	Roadside Improvement Materials	X	X	X			4/1985
SPS 713	Roadside Improvement Materials	X	X	X			(4/96)

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101.02 Delete in its entirety and substitute the following:

Pay Items & Pay Units

"& .....	And	MAT'L.....	Material
AC.....	Acre	M.....	Metal
AL.....	Aluminum	MAX.....	Maximum
ASP.....	Asphalt	MBF.....	One Thousand Feet Board Measure
AVAIL.....	Available	MGALS.....	One Thousand Gallons
BARR.....	Barrier	MHD.....	Method
BKN.....	Broken	MI.....	Mile
BST.....	Bituminous Surface Treatment	MIN.....	Minimum
CATTLEGD.....	Cattleguard	MISC.....	Miscellaneous
CLEAR (CLG).....	Clearing	MP.....	Mile Post
CLEAR/GRUB.....	Clearing & Grubbing	MSF.....	One Thousand Square Feet
CMP.....	Corrugated Metal Pipe	OTBC.....	Open Top Box Culvert
COMP.....	Compaction	P M.....	Placement Method
CONC.....	Concrete	PVC.....	Polyvinylchloride
CONST.....	Construction (Construct)	RD.....	Road
CTD.....	Coated (Coating)	RECOND.....	Reconditioning
CUSH.....	Cushion	RECONST.....	Reconstruction (Reconstruct)
CY (CU YD).....	Cubic Yard	REFL.....	ReflectORIZED
CY MI (CYM).....	Cubic Yard Mile	RT.....	Right
DIA.....	Diameter	STMP (STP).....	Stump(s)
DL.....	Double Lane	SB.....	Self Balance
DWGS.....	Drawings	SEC.....	Section
EA.....	Each	SF.....	Square Foot (Feet)
EMB.....	Embankment	SL.....	Single Lane
EXC.....	Excavation	SLD.....	Solid
F&I.....	Furnish & Install	ST.....	Slash Treatment
FDN.....	Foundation	STA.....	Station (100 Feet)
FT.....	Foot (Feet)	STA YD.....	Station Yard
FUNC.....	Function	STL.....	Steel
GAL.....	Gallon	STR (STRUC).....	Structural
GR.....	Grade	SY (SQ YD).....	Square Yard
GRUB.....	Grubbing	SZ.....	Size
HDPE.....	High Density Polyethylene	T&L.....	Tops & Limbs
HOR.....	Horizontal	TBR.....	Timber
HR.....	Hour	TH.....	Thickness
HT.....	Height	TM.....	Ton Mile
I.....	Install	TO.....	Turnout
IN.....	Inches	TOL.....	Turnout Left
INCL.....	Including (Includes)	TOR.....	Turnout right
IND.....	Individual	TRS.....	Trees
JCT.....	Junction	UOT.....	Utilization of timber
L.....	Logs	VERT.....	Vertical
LBS.....	Pounds	W.....	Width
LDG.....	Loading	W/.....	With
LF (LIN FT).....	Linear (lineal) Foot	W/O.....	Without
LS.....	Lump Sum	X-SEC.....	Cross Section
LT.....	Left	YD.....	Yard

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**Section 102 - Definitions**

Add the following:

Noxious Weeds or Weeds. Any exotic plant species established or that may be introduced in the State which may render land unfit for agriculture, forestry, livestock, wildlife, or other beneficial uses and which is designated by the State's Department of Agriculture, or by the County's weed management district, or by other appropriate agencies having jurisdiction, or as listed on the current "All States Noxious Weed List."

Shop Drawings. Incidental design sheets and/or drawings which the Contractor is required to submit to the Forest Service. Shop drawings shall conform to the contract requirements, but they are not part of the contract drawings. They may be drawings, diagrams, schedules, performance charts, brochures, and similar data prepared by the Contractor, subcontractor, manufacturer, suppliers, or distributors that illustrate how specific portions of the work are to be fabricated or installed.

Weed Management District. A weed management district is any area of land identified for the purpose of weed management or control. Such an identified land area may be, but is not limited to one of the following: a project or job site, a County, two or more Counties, or a National Forest."

**Section 103 – Intent of Contract**

Add the following:

Road # 6003 is an existing road that is closed to full sized (over 50 inches) vehicles. It is also use as Trail 151 which is open to seasonal ATV use. The contract is designed to reconstruct and widen portions of this road on its existing location and relocate it in other locations that have excessive road grades.

**Section 104 - Maintenance for Traffic**

104.01

Roads to be  
Constructed

Add the following to the first paragraph:

“All roads not identified in the Coeur d’ Alene River Ranger District Access Travel Management Plan shall remain closed to all but administrative traffic during construction, reconstruction or reconditioning. Road # 6003 has co-use as Trail 151 and is open to seasonal ATV use. Minimum signing required is shown on the sign plans. Additional signing shall be placed as set forth in 104.03 Construction Signs.”

Add the following:

“Prior to the Contractor shutting down any operations, the Contractor shall take such precautions as may be necessary to prevent damage to the project, such as approaches, crossings or intersections; and shall make provisions for normal drainage and minimization or erosion.”

104.03

Construction  
Signs

"As a minimum, the Construction Sign Plan as SHOWN ON THE DRAWINGS, indicates the anticipated signing during construction activities. These signs shall be furnished and installed by the Contractor as staked or directed by the Contracting Officer. The Contractor shall have the responsibility for furnishing, installing maintaining and removing construction warning signs in conformance with the latest revision of the Manual of Uniform Traffic Control Devices. Signs shall be covered or removed when not necessary to warn of hazards. Additional signs shall be furnished, installed and maintained by the Contractor where appropriate, to provide for the safe passage of public traffic."

**MEASUREMENT**

104.05

Method

"The method of measurement, as described in Section 106, will be DESIGNATED IN THE SCHEDULE OF ITEMS."

**PAYMENT**

104.06

“Construction signing, posts, and maintenance of construction signs under this Basis section shall be considered subsidiary to Pay Item 601 - Mobilization and no separate payment will be made.”

**Section 106 - Measurement & Payment**

106.03

Units of  
Measurement

Under "(a) Cubic Yard, " add the following:

"(4) Material, Compacted in Place. The measurement computed using measurements of material in the compacted state on the project. Statistically random measurements of length, depth, and width for computation of quantities shall be made along the project when Actual Quantities are shown on the SCHEDULE OF ITEMS."

Add the following to the end of this section:

"(j) Lump Sum. The quantities that denote one complete unit of work as required by or described in the contract, including necessary materials, equipment, and labor to complete the job."

106.04

Methods of  
Measurement

Add the following:

"The Variation of Quantity Clause does not apply to items paid for on a Designed Quantity (DQ) or Lump Sum Quantity (LSQ) basis."

**Section 173 - Construction Staking, Location Line**

**DESCRIPTION**

173.01 Add the following to the second sentence of the first paragraph:  
Work

"and re-establishing missing preliminary survey points."

Add the following to the last paragraph:

"Construction staking shall be accomplished by personnel experienced in construction staking methods to the standards described in this SECTION, SHOWN ON THE DRAWINGS and/or as listed in the SCHEDULE OF ITEMS. The party chief for construction staking shall be approved in writing by the Contracting Officer."

**MATERIALS**

173.02 Add:  
Stakes

"The nominal dimension of the wooden stakes shall be:

3/8"X 1-3/4"X 18": For guard, reference, slope,  
and other stakes.

3/8"X 1-3/4"X 3': For clearing limit lath.

Colors used for paint or flagging for marking the stakes, lath, and clear limits shall be approved by the Contracting Officer."

173.03 Add:  
Survey Note

Paper & "When field notes are generated by the Contractor, bound field  
Books books shall be used."

173.04 Delete the first sentence and add:

Government "The Contractor will be furnished by the Government, drawings, P-line survey  
Furnished notes, slope stake notes, computer printouts, and other necessary information for construction  
Documents staking the project."

**STAKING  
REQUIREMENTS**

173.05 Add the following:  
Precision

"The work shall meet the following precision: Slope distance accuracy for setting slope stakes shall be 0.5 foot, or 2.0 percent of the slope distance, from the control point to the slope stake, whichever is the larger value.

Slope Distance accuracy for reference stakes set from slope stakes shall be 0.5 foot, or 2.0 percent of the slope distance, measured from the slope stake to the reference, whichever is the

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larger value. Accuracy of horizontal measurement from the slope stake to the clearing limit shall be 1.0 foot."

173.06  
Staking  
Notes

Delete in entirety and add the following:

"Staking notes shall be neatly kept in a standard format, approved by the Contracting Officer, in securely fastened field books with stiff covers. Lettering shall be at least 0.15 inch high and legible at a distance of 2.5 feet. Errors shall be deleted by lining out. Crew names, positions, and date of survey shall be recorded in the stake notes at the beginning of each day's work. The Party Chief, or notekeeper, must sign or initial the beginning sheet of each day's work. All notes, including the originals, shall become the property of the Forest Service. If staking is performed by a Professional Engineer and/or Professional Land Surveyor, all completed field books shall be stamped, signed, and dated. All information recorded on the reference stake shall be recorded in the stake notes. In addition, the horizontal distance from centerline to each clearing limit shall be recorded.

Periodic field inspections will be made by the Contracting Officer or his designated inspectors."

173.07  
Location  
Survey Line

Delete in entirety and add the following:

"A preliminary line has been established on the ground for this project. Missing points shall be re-established and marked on the ground with a new stake containing the original information by the Contractor.

The Stations shown in EXHIBIT A were not a part of the original survey but shall be established on the ground by the contractor by measuring the calculated distance from the nearest existing section to the section to be established. Added sections shall be on a tangent between the prior existing section and the following existing section. The section thus established shall then be staked in accordance with 173.09."

173.08 &  
173.09  
Clearing  
Limits,  
Slope  
Stakes &  
References

Delete in entirety and add the following:

"The Contractor shall establish slope stakes, clearing limits and reference points by one of the following methods as shown in the SCHEDULE OF ITEMS:

173(01)A - Clearing Limit and Slope Stake Combined - Outside(s) and Through Fills.

Clearing limits shall be established on each side of the designed centerline by using the slope distance information given in the staking notes and verify the minimum clearing limit distances shown on the typical section sheet of the drawings. This point shall be marked by firmly setting a lath in the ground for the outside and through fills. The clearing limit on the fill side in a cut/fill section shall be marked with a flag. The stakes/flags shall be set on lines at approximate right angles to tangents and normal to the central bearing of intersecting tangents. The clearing stake on the cut side or on both sides in through fill areas shall be marked as shown in figure 173-1 with the following information: The designed cut or fill to ditch grade at the slope stake point if there is a ditch, or to shoulder grade if there is no ditch; the horizontal distance from the catch

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point to centerline; whether cut or fill is to ditch grade or shoulder grade; the slope ratio; the width "W" from inside shoulder to outside shoulder; the station; the diameter and length of culvert if section is a culvert section. Any clearing lath damaged or destroyed during clearing operations shall be replaced before starting excavation.

After each section has been slope staked, reference stakes shall be established for slope stake information a minimum of 10 feet slope distance outside the clearing limits, with the following information recorded on them as shown in figure 173-1: The slope distance from the reference stake to the clearing stake and the information shown on the slope stake.

173(01)B - Clearing Limit and Slope Stake Combined - Both Sides.

The requirements for this pay item shall be the same as 173(01)A except that slope stakes and reference stakes shall be established on both sides of the designed centerline at all sections.

173(01)C - Clearing Limit and Slope Stake Combined - Outside(s) and Through Fills and Layer Place Fills.

Clearing limits shall be established on each side of the designed centerline by using the slope distance information given in the staking notes and verify the minimum clearing limit distances shown on the typical section sheet of the drawings. This point shall be marked by firmly setting a lath in the ground for outside and through fills. The clearing limit on the fill side in a cut fill section shall be marked with a flag. The stakes/flags shall be set on lines at approximate right angles to tangents and normal to the central bearing of intersecting tangents. The clearing stake on the cut side(s) or on both sides in through fill areas shall be marked as shown in figure 173-1 with the following information: The designed cut or fill to ditch grade at the slope stake point if there is a ditch, or to shoulder grade if there is no ditch; the horizontal distance from the catch point to centerline; whether cut or fill is to ditch grade or shoulder grade; the slope ratio; the width "W" from inside shoulder to outside shoulder; the station; the diameter and length of culvert if section is a culvert section. Any clearing lath damaged or destroyed during clearing operations shall be replaced before starting excavation.

In layer place areas, a fill stake shall be marked as shown in figure 173-1 with the following information: The designed fill to shoulder grade, the horizontal distance from the catch point to centerline, the slope ratio, the station, and the slope distance from the reference stake to the designed toe of fill. The fill stake shall be placed alongside the reference stake(s).

After each section has been slope staked, reference stakes shall be established a minimum of 10 feet slope distance outside the clearing limits, with the following information recorded on them as shown in figure 173-1: The slope distance from the reference stake to the clearing stake and the information shown on the slope stake.

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173(01)D - Establishment of Fill Stakes in Layer Place Fill Areas.

Toe of fill(s) shall be marked by firmly setting the fill stake in the ground using slope distance information as marked on the fill stake and measured from the reference point. The fill stakes shall be established after clearing has been completed and prior to embankment placement. This work need not be performed under the direction of a registered Professional Engineer or Professional Land Surveyer.

173(02)A - Clearing Limit and Slope Stake Separate - Cut Side(s) and Through Fills.

The requirements for this pay item shall be the same as 173(01)A except that the slope stake shall be placed at the slope stake point and shall have the slope stake information recorded on it. The Contractor may elect to mark the slope stake point with a "dummy " stake meeting the requirement of 173.02 and set the slope stake back with the reference stake until after clearing operations. In all cases the slope stake shall be reset to the slope stake point prior to starting excavation. The slope distance marked on the reference stake shall be from the reference stake to the slope stake.

173(02)B - Clearing Limit and Slope Stake Separate - Both Sides.

The requirements for this pay item shall be the same as 173(02)A except that slope stakes and reference stakes shall be established on both sides of the designed centerline at all sections."

173.11  
Staking  
Culverts

Delete in entirety and substitute the following:

"All 36" and larger (or 24" and larger in a live stream) culverts shall be staked by hand level method, or equivalent, with stakes driven on the centerline of the culvert at each end of the culvert. In addition, reference stakes and pipe lath shall be a minimum of 10 feet beyond the anticipated construction limits. Stakes shall be marked with the following:

- (a) Pipe Lath: Station, diameter, length, and type of culvert (such as 18"X 36' CMP).
- (b) Reference Stake: The vertical and horizontal distances from the stake to the invert at the end of the pipe and the station.
- (c) End-of-Pipe Stake: Vertical distance to flowline."

173.14  
Marking  
Stakes

Delete and substitute with the following:

"All stakes shall be marked with a stake pencil that leaves an imprint in the stake. The imprint is required on all marked stakes and all markings shall be legible. Other methods of permanent marking may be approved in writing by the Contracting Officer. Stakes shall be marked as shown in Figure 173-1, unless otherwise approved by the Contracting Officer."

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173.15 After the first paragraph add the following:  
Approval and  
Maintenance "Stake notes shall be returned by the Contractor to the Contracting Officer for approval and shall be in the original binder and contain the original number of pages as when furnished to the contractor. The Contracting Officer shall have 15 days from the date the notes are turned in to inspect the work and notify the contractor as to whether the work is acceptable."

**MEASUREMENT**

173.16 Add the following:  
Method "Construction staking includes re-establishing missing portions of the location line, setting reference stakes, slope stakes, culvert stakes, and clearing limits. The quantity shall be the number of miles, measured to the nearest 0.01 mile, of centerline completed and accepted."

**PAYMENT**

173.17 Delete Pay Items and add the following:  
Basis

<u>Pay Item</u>	<u>Pay Unit</u>
173(01)A - Establishing Slope Stakes, Cut Side(s) and Through-Fills, Clearing Limit and Slope Stake Combined. . . . .	MI
173(01)B - Establishing Slope Stakes, Both Sides, Clearing Limit and Slope Stake Combined. . . . .	MI.
173(01)C - Establishing Slope Stakes, Cut Side(s) and Through-Fills, Clearing Limit and Slope Stake Combined. . . . .	MI.
173(01)D - Establishing of Fill Stakes in Layer Placed Fill Areas . . .	MI.
173(02)A - Establishing Slope Stakes, Cut Side(s) and Through-Fills, Clearing Limit and Slope Stake Separate. . . . .	MI.
173(02)B - Establishing Slope Stakes, Both Sides, Clearing Limit and Slope Stake Separate. . . . .	MI.

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**Note:** When using stakes 21" and Longer, the Station may be written on the front of the stake.

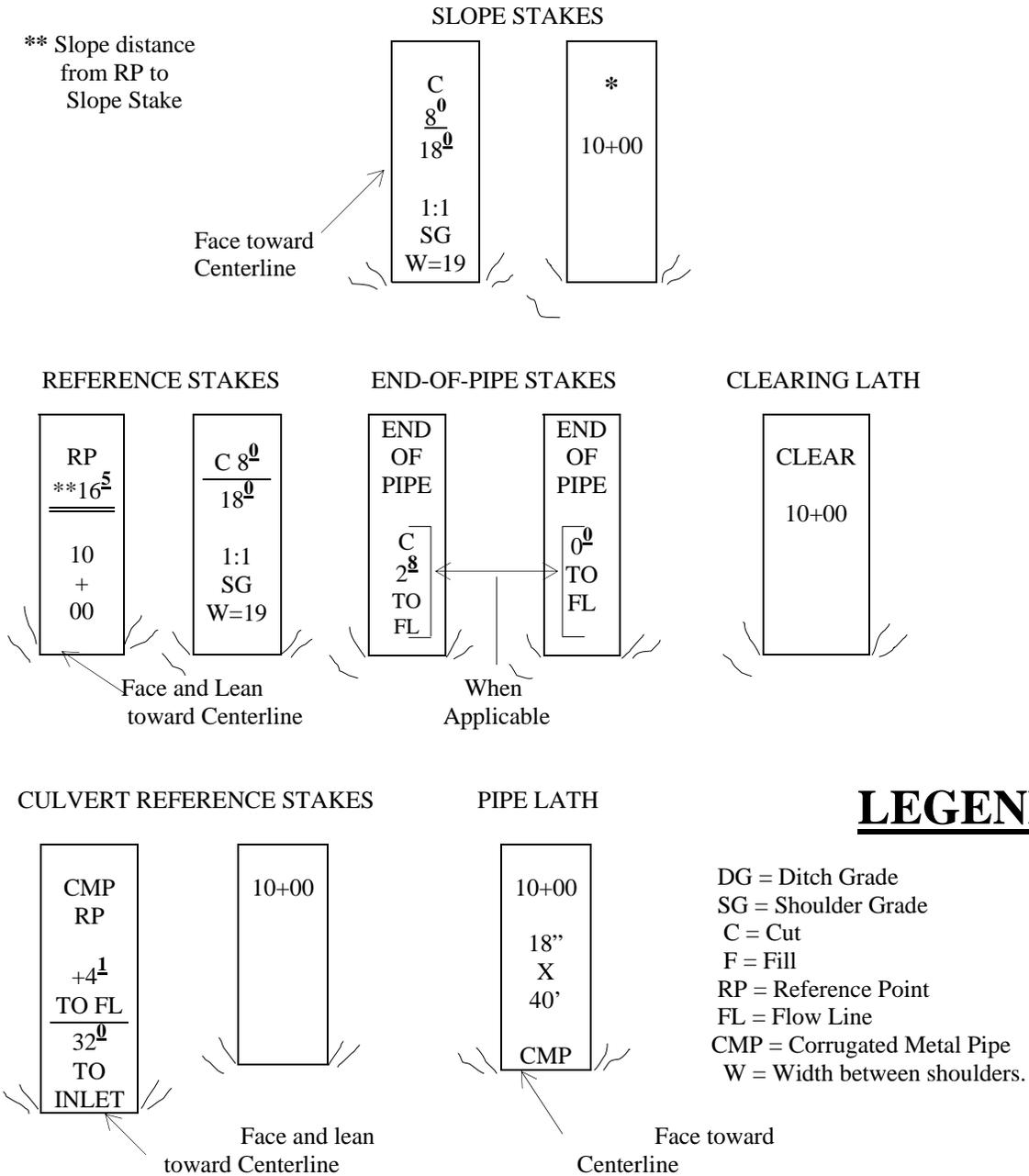


Figure 173 -1 Construction Stakes

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**EXHIBIT A**

N/A

**Section 201 - Clearing and Grubbing**

DESCRIPTION

201.02  
Clearing  
and  
Grubbing

Replace (a) with:

"(a) Undisturbed stumps outside the roadway or in embankment areas, provided they do not extend more than 1 foot above the original ground nor closer than 1 foot to the finished subgrade and do not interfere with the placement or compaction of embankments."

Add the following:

"(c) Stable trees up to 6 inches in diameter and uncut vegetation less than 3 feet in height and less than 3 inches in diameter within the clearing limits but beyond the roadway that do not interfere with visibility."

Delete the first sentence of the fifth paragraph and replace with the following:

"Trees within the clearing limits may be felled outside the area being cleared."

201.03  
Utilization  
of Timber

Add the following to the first paragraph after the first sentence:

"Timber meeting utilization standards shall be that timber as described in A-2 of the Timber Sale Contract and shall be treated as included timber, except timber cut on other than National Forest land which shall be handled separately in accordance with the special provisions in the Timber Sale Contract."

201.05  
Slash  
Treatment

(b) Specific Methods.

Delete (4) Scattering and replace with the following:

"(4.1) Scattering  
(FELL OUTSIDE CLEARING LIMITS AND SCATTER)

In the area SHOWN ON THE DRAWINGS, right-of-way timber may be felled outside the clearing limits. Tops and limbs cut from merchantable trees and unmerchantable material may be left outside the clearing limits. Construction slash remaining within the clearing limits shall be scattered on embankments or outside the clearing limits without damaging standing trees. Logs and stumps shall be placed away from the trees, positioned so they will not roll, and shall not be placed on top of one another. Construction slash shall be limbed and scattered to reduce slash concentration."

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MEASUREMENT

201.06 Add the following:

Method

“Items not shown in the SCHEDULE OF ITEMS will not be measured.”

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**Section 201A – Roadway Brushing**

**DESCRIPTION**

201A.01      This work shall consist of removing limbs, residual slash, live roadside brush, and  
Work            small trees between, or obtruding into, the designated brushing limits. The brushing  
                     limits shall be AS SHOWN ON THE DRAWINGS. Brushing areas shall include turnouts.

**CONSTRUCTION**

201A.02      All brush and small trees (6 inches diameter, or less, at the point of cut) inside the  
Clearing &      brushing limits and outside the roadbed shall be cut off no higher than 4 inches  
Brushing        above ground level (6 inches for machine brushing). Should rocks or other  
                     Obstructions be encountered, the cutting height shall be no higher than 6 inches  
                     above the obstruction. Live trees with a diameter larger than 6 inches should be limbed to a  
                     height of 14 feet above the road surface. All brush and trees located on the roadbed shall be cut  
                     as nearly flush to the road surface as possible so stumps will not become a hazard to automobile  
                     tires.

201A.03      Windfalls lying within or across the brushing limits shall be limbed and cut off at a  
Windfalls       horizontal distance of 10 feet from each shoulder or at the brushing limit, which  
                     ever is less. Cut windfall material shall be disposed of as slash.

201A.04      No brushing debris shall be deposited in the traveled way Road Junctions and/or  
                     ditches of adjoining roads.

201A.06      All slash shall be scattered outside the brushing limits without damaging residual  
Slash            trees. Slash shall be defined as any material cut that has a length greater than  
Treatment     36 inches or with a diameter greater than 3 inches at any point. No material shall be  
                     deposited in streams, streambeds, culvert inlets or outlets, or drainage ways.

**MEASUREMENT**

201A.07      The method of measurement, described in Section 106, will be DESIGNATED in  
Method         the SCHEDULE OF ITEMS.

Linear measurements will be horizontal along the road centerline.

Quantities will be the number of miles (or stations) and fractions thereof along the road centerline, regardless of the amount of work required.

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PAYMENT

201A.08      The accepted quantities will be paid for at the contract unit price for each pay item  
Basis            shown in the SCHEDULE OF ITEMS.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
201A(01)	Roadway Brushing .....	Mile
201A(02)	Roadway Brushing .....	Station

**Section 203 - Excavation & Embankment**

DESCRIPTION

203.01            Insert the word "haul" after the word "roadway" on the first line.  
Work

CONSTRUCTION

203.04            Add the following to the last sentence:  
Clearing &        "..., unless specifically allowed under Section 201."  
Grubbing

203.08            Add the following:  
Finishing        "For simplification, out-sloping and in-sloping of the travelway have not been  
Roadbed         reflected in the construction staking, however, they will be required as SHOWN ON THE  
DRAWINGS.

PAYMENT

203.19            Add the following Pay Item:  
Basis

<u>Pay Item</u>	<u>Pay Unit</u>
203(01)H        Excavation Placement Method 1, Includes _____ Sta. Yd. Haul	C.Y.

**Section 204 - Soil Erosion & Water Pollution Control**

DESCRIPTION

204.01 Delete the entire subsection and substitute the following:  
Work

"This work consists of special temporary and/or permanent construction measures as SHOWN ON THE DRAWINGS and/or listed in this specification to control soil erosion and water pollution. Such measures may include (but are not limited to) filter windrows, slash blankets, brush barriers, drainage devices, earth berms, earthen water bars, sediment basins, aggregate base/surfacing, rock ditches, riprap, seeding, mulching, and/or straw bales.

This work shall also include special construction methods SHOWN ON THE DRAWINGS to control erosion at control areas."

MATERIALS

204.02 Delete the 2nd paragraph and substitute the following:  
Requirements

"All other materials shall meet commercial grade standards and shall be approved before being incorporated into the project."

CONSTRUCTION

204.03 Delete the 2nd paragraph and substitute the following:  
Performance

"Erosion control measures shall be incorporated into the project no later than the dates specified in Table 204.1. Variations in this schedule must be approved in writing by the Engineer."

Add the following after the 3rd paragraph:

"The following construction requirements shall apply:

- a.- Earthwork. Clearing and grubbing, excavation, borrow and embankment operations shall be scheduled and performed so that grading operations and permanent erosion control measures can follow without interference or be constructed within the time periods listed in Table 204.1.
- b.- Stream Courses. Temporary culvert installations will not be permitted in live streams unless approved individually in writing by the Engineer. If such approval is granted, temporary culverts shall be offset a sufficient distance so that installation of the permanent culvert can be completed without removal of the temporary culvert. Temporary culverts shall not be removed until flowing water is completely confined to the permanent culvert.

Diversion of live streams to allow work in the streambed shall be performed in such a manner as necessary to prevent erosion. Dikes of sufficient height to divert the

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flow without being overtopped shall be constructed in the stream above the drainage structure. Water shall be conveyed around the work area by a non-eroding conduit. Watertight pipes, tubing, or lined trenches may be used. Trench or pipe outlet areas shall be protected with plastic or other material approved by the Engineer to insure that diverted water does not cause erosion as it returns to the stream.

Equipment shall not operate in the stream unless authorized by the Engineer. This does not include a one time crossing of the stream to begin installation. After installation of the permanent drainage structure is completed, all dikes, temporary culverts, basins, and trenches shall be removed and the area restored to near natural condition.

- c.- Wet Conditions. The contractor shall conduct operations so as to minimize erosion and not develop conditions that will cause erosion. Work may continue during wet conditions as long as erosion and rutting is controlled.
- d.- End of Construction Season and prior to Move-out. Any rutted areas and other damaged areas shall be smoothed, sloped and graded to drain. All temporary stream course diversion conduits and temporary culverts shall be removed and the stream returned to its natural channel. All erosion control measures required under this specification shall be functional and approved by the Engineer. The seeding method prescribed in Section 625 shall be used on all areas where work has been completed.

**MEASUREMENT**

204.04  
Method

Add the following to the first paragraph:

"Items not shown in the SCHEDULE OF ITEMS will not be measured."

**PAYMENT**

204.05  
Basis

Add the following:

"Other erosion control work required under this specification and not shown in the SCHEDULE OF ITEMS is considered incidental to pay items in the Section listed in Table 204.1."

**SPECIAL PROJECT SPECIFICATION  
PRICHARD-MURRAY TIMBER SALE**

TABLE 204.1

<b>SECTION</b>	<b>DURATION</b>	<b>DESCRIPTION OF WORK</b>	<b>TIMING OF CONSTRUCTION</b>
203	Permanent	<u>Culvert Catch Basins and Ditch Transitions</u>	Concurrently with culvert installation.
203	Permanent	<u>Inslope/Outslope</u> as shown on drawings.	Continuously as road is roughed to grade.
Incidental to 201 203 304 603 or 625		<u>Special Construction Methods</u> . Specific locations and requirements shown on the drawings, and/or described in the Special Project Specifications.	As described on the drawings and/or in the Special Project Specifications.
203	Permanent	<u>Drainage Dip</u> Locations shown on the drawings.	Prior to the end of the construction season for all areas roughed to grade.
203	Temporary	<u>Uncompleted Roads</u> . The total length of all roads with uncompleted excavation and embankment, including pioneer roads, shall not exceed 500 lineal feet after October 15.	See description of work.
304	Permanent	<u>Aggregate Base/Surfacing</u> The total length of all areas of disturbed earth (including pioneer roads and completed subgrades) on which gravel has not been placed shall not exceed 500 lineal feet after September 15.  This requirement <u>may</u> be waived by the Engineer based on a review of the Contractor's operations, methods, and progress in controlling erosion and keeping erosion control features current as described in this specification. Such waiver, if given, shall be in writing.	See description of work.
625	Permanent	<u>Seeding</u>	As specified in Section 625
640	Permanent	<u>Road Closure Devices</u>	Immediately after excavation and embankment are accomplished at the station designated for the device.

**IPNF SPECIAL PROJECT SPECIFICATION  
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**Section 205A - Haul**

MEASUREMENT

205A.02                   Delete the last sentence of this subsection.  
Methods

PAYMENT

205A.03                   Delete this subsection and replace with the following:  
Basis  
"When no pay item for 205A is specified, the payment for haul shall be included as a subsidiary item to Section 203. No separate payment shall be made under Item 205A.

**Section 206A - Excavation for Culverts & Minor Structures**

MEASUREMENT

206A.08 Add the following:  
Methods

"(c) For gabion structures, measurement will be to the lines and grades as SHOWN ON THE DRAWINGS."

"(d) Excavation for pipe culverts with diameter of 36 inches or smaller and for pipe arches 42 inches by 29 inches or smaller and drop inlets shall not be measured."

PAYMENT

206A.09 After the first sentence, add:  
Basis

"Payment for excavation for pipe culverts with diameter of 36 inches or smaller and for pipe arches 42 inches by 29 inches or smaller and drop inlets shall be included as a subsidiary item to Section 603 and Section 604. No separate payment shall be made under this Section or under Section 603, 603A, 603B, or 604."

**Section 299A – Composite Road Reconstruction**

**DESCRIPTION**

299A.01  
Work This work shall consist of clearing and grubbing, excavation and embankment, Work drainage excavation and erosion control. Clearing and grubbing shall include treatment of merchantable timber, and disposal of construction slash, including all designated trees. Excavation and embankment shall include borrow, drainage excavation, shaping the roadway, including approaches, turnarounds, ditches and drainage dips, and disposal of all excavated material, regardless of its nature. Erosion control, when specified, consists of furnishing and placing required seed, fertilizer, mulch and tackifier. Reconstruction of the roadway shall be in conformance with the dimensions SHOWN ON THE DRAWINGS or DESIGNATED on the ground.

**CONSTRUCTION**

299A.02  
Clearing &  
Disposal “Clearing and grubbing shall meet the requirements in Section 201, SPECIAL PROJECT SPECIFICATION 201, and as SHOWN ON THE DRAWINGS.”

“Utilization of timber (UOT) shall be as described in Subsection 201.3.”

“Slash treatment shall be Method as described in Subsection 201.05.”

299A.03  
Pioneering Pioneer operations shall not undercut the final back slope, deposit material outside the roadway limits, or restrict drainage.

299A.04  
Grubbing Grubbing limits shall be as SHOWN ON THE DRAWINGS. Stumps outside the grubbing limits may remain, but shall be cut no higher than 12 inches above the original ground measured on the uphill side unless otherwise SHOWN ON THE DRAWINGS.

299A.05  
Excavation &  
Embankment The roadway shall be reconstructed to conform to the typical sections SHOWN ON DRAWINGS. Embankment may be placed by side casting and end dumping.

The location and requirements for use of borrow material and any requirements for the removal and disposition of unsuitable or excess material will be as SHOWN ON THE DRAWINGS.

Rocks too large to be incorporated in the embankment shall be placed outside the traveled way on the downhill side, so that they will not roll, obstruct drainage, or hinder the use and the maintenance of the roadbed.

To facilitate seeding, slopes shall be left in a roughened condition.

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Unless otherwise SHOWN ON THE DRAWINGS, the roadbed shall be shaped and finished to a condition that can be ordinarily accomplished by a crawler tractor with dozer blade to provide drainage of surface water. Individual rocks, within the roadbed, shall not protrude over 4 inches above the subgrade. A motor grader finish is not required.

Unless otherwise SHOWN ON THE DRAWINGS, the travel way width shall not exceed the specified dimension by more than 2 feet.

299A.06 Erosion Control “The method for seeding shall be SHOWN OF THE DRAWINGS. The rates and time of application and types of seed, fertilizer, mulch, and tackifier shall be accomplished as specified in Section 625 – Seeding & Mulching and SPECIAL PROJECT SPECIFICATION 625.

**MEASUREMENT**

299A.07 Method The method of measurement, as described in Section 106, will be DESIGNATED in the SCHEDULE OF ITEMS.

Items not shown in the SCHEDULE OF ITEMS will not be measured.

**PAYMENT**

299A.08 The accepted quantities will be paid for at the contract unit price for each pay item Basis shown in the SCHEDULE OF ITEMS

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
299A(01)	Composite Road Reconstruction . . . . .	Mile
299A(02)	Composite Road Reconstruction . . . . .	Station

**Section 304 - Aggregate Base or Surface Course**

**Materials**

304.03      Add the following:  
Gradation

“In lieu of the gradation requirement of Subsection 703.06, similar gradations from Commercial Sources that meet Idaho Department of Transportation, Shoshone County or Kootenai County specifications may be substituted with written approval from the Contracting Officer.

**Section 306 - Reconditioning Existing Road**

**DESCRIPTION**

- 306.01 Delete "scarifying and" from the text.  
Add: "and catch basins" following "outlets"

**CONSTRUCTION**

- 306.02 Delete the first two paragraphs including (a) and (b) of the second Performance paragraph and replace with the following:  
"Scarification of the traveled way and shoulders is not required. Any rock protruding less than two inches may be left in place. Rock protruding in excess of two inches shall be removed or the tops blasted. Resulting holes in the roadway or shoulders shall be backfilled with compacted suitable material."

**MEASUREMENT**

- 306.04 Add the following:  
Method "Items not shown in the SCHEDULE OF ITEMS will not be measured."

**Section 601 - Mobilization**

**DESCRIPTION**

601.01

Work. Replace the first sentence with the following:

“This work shall consist of preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project work site.

Preparatory work shall include cleaning of all equipment used at the project site. The Contractor(s) is required to clean all construction equipment prior to entry on the project site. This cleaning shall remove all dirt, plant parts and material that may carry noxious weed seeds into the area. Only construction equipment inspected by the Contracting Officer shall be allowed to operate within the project area. All subsequent move-ins of equipment shall be treated the same as the initial move-in. Truck beds and dump boxes hauling to the project site must also be cleaned prior to entering the work area.

Prior to initial move-in, the Contractor shall make all construction equipment available for inspection by the Contracting Officer at an agreed upon location. The Contractor shall provide the Contracting Officer at least 24 hours advance notification when equipment is ready for inspection.”

**Section 603 - Metal Pipe**

**MATERIALS**

603.02 Delete the second sentence, last paragraph, and add:

Requirements

"Pipe should not be ordered until culvert locations are DESIGNATED ON THE GROUND and the correct lengths are determined."

**CONSTRUCTION**

603.03

Excavation

Delete the Second paragraph:

603.06

Joining Pipes

Replace the last sentence of the first paragraph with the following:

"Dimpled bands shall not be used unless approved by the Contracting Officer in writing."

603.08

Backfilling

At the end of the second paragraph, after "Method A or B," add:

"or C"

After Method B, add:

"Method C - Compaction shall be obtained by a minimum of two passes with a mechanical tamper, approved by the Contracting Officer, for each 6-inch layer (loose thickness) of backfill unless otherwise SHOWN ON THE DRAWINGS."

**IPNF SPECIAL PROJECT SPECIFICATION  
PRICHARD-MURRAY TIMBER SALE**

**Section 625 - Seeding and Mulching**

DESCRIPTION

625.01            Add the following:  
Work  
                      "All disturbed areas as well as finished cut and fill slopes are to be treated."

CONSTRUCTION

625.03            Add:  
Seeding  
Seasons            "Time of application shall be as specified:

During the Months marked with an 'X' below:

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
		X	X	X				X	X	X	

Should climatic conditions permit, application may be performed outside the months marked above upon written approval by the Engineer."

625.05  
Application    The following is added:  
Methods for Seed,    "The kinds of seed to be furnished and the amounts to be applied in terms of  
Fertilizer,            pure live seed (PLS) shall be as follows:  
& Limestone

High	Elevation Smooth Brome "Manchar" 5	
	Creeping Foxtail "Garrison".....	2
	Sheep Fescue "Covar".....	2    TOTAL
	Slender Wheatgrass "Pryor".....	2    15# PLS/ACRE
	Hard Fescue "Durar".....	2
	White Dutch Clover <sup>1</sup> .....	2    Inoculation required

High Elevation Mix Substitutes:  
Mt. Brome "Bromar" for Smooth Brome @ 5 #/Acre.  
Kentucky Bluegrass "Park" @ 1 #/Acre for Creeping Foxtail.  
Red Fescue "Boreal" for Sheep Fescue @ 4 #/Acre.  
Perennial Rye "Linn" for Slender Wheatgrass @ 2 #/Acre.  
Indian Ricegrass "Nezpar" for Hard Fescue @ 2 #/Acre.

**IPNF SPECIAL PROJECT SPECIFICATION  
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Pounds of seed to be furnished per acre shall be obtained by dividing the pounds of pure live seed (PLS) required per acre by the product of the percent purity and percent germination.

Example: 
$$\frac{5(\# \text{ PLS/acre})}{0.90 \times 0.85} = 6.55 \text{ pounds commercial seed per acre.}$$
 (where purity=90% and germination=85%)

Certified, blue-tagged seed shall be used where a name variety or cultivar is specified. Blue tags which are removed to mix the seed shall be provided to the Forest.

All seed purchased will be certified to be free of the noxious weed seeds from weeds listed on the current "All States Noxious Weeds List".

Test results from a certified seed analyst and seed analysis labels attached to the bags will be provided to the Forest Service. Lab testing for noxious weeds will be conducted prior to seed mixing. Only after a finding and documentation in writing of no weeds on the current "All States Noxious Weeds List" will the seed be accepted and used.

Seed shall be applied by the dry method. Fertilizer shall be applied at the rate of 200 pounds per acre in one application(s) by the dry method and have a chemical analysis as listed below:

<u>Nutrient</u>	<u>Percent</u>	<u>Nutrient</u>	<u>Percent</u>
Nitrogen, N . . .	<u>16</u>	Potassium, K. .	<u>0</u>
Phosphorus, P205.	<u>20</u>	Sulphur, S. . .	<u>14 "</u>

625.06  
Application  
of Mulch

Delete in entirety.

**Section 640 - Road Closure Devices**

CONSTRUCTION

640.03

Performance Add the following to the end of the first sentence in the first paragraph:

"or DESIGNATED ON THE GROUND by the Engineer."

Delete the third paragraph and replace with the following:

"After assembly, nongalvanized steel pipe gates shall be cleaned and painted with one coat of zinc-rich primer of the color SHOWN ON THE DRAWINGS."

Add the following to this subsection:

"The Contractor shall notify the Engineer at least one week prior to installing any road closure device. The Contractor shall install all regulatory signs, barricade markers, and object markers as SHOWN ON THE DRAWINGS, immediately upon installation of the road closure device.

The road closure device shall be installed within 5 days from the time construction begins on the road where the device is required."

**REGIONAL SPECIAL PROJECT SPECIFICATION  
PRICHARD-MURRAY TIMBER SALE**

**Section 713 - Roadside Improvement Materials**

713.04      Replace the first paragraph with the following paragraph:

Seed

The kinds of grass, legumes, and cover-crop seed furnished shall be those stipulated in the SPECIAL PROJECT SPECIFICATIONS. All seed shall meet the requirements of Federal Specification-JJJ-S-181 which shall be amended as follows:

All seed purchased shall be certified to be free of noxious weed seeds from weeds listed on the current "All States Noxious Weeds List."

Replace the second paragraph with the following paragraph:

Seed shall be furnished separately or in mixture in standard containers with (1) seed name; (2) lot number; (3) net weight; (4) percentages of purity and of germination (in case of legumes, percentage of germination to include hard seed); and (5) percentage of maximum weed seed content clearly marked for each kind of seed. The contractor shall furnish the Contracting Officer duplicate signed copies of a statement certifying that each lot of seed has been tested by a certified seed analyst. This statement shall include (1) name and address of laboratory, (2) date of test, (3) lot number for each kind of seed, and (4) results of tests as to name, percentages of purity and of germination, and percentage of weed content for each kind of seed furnished, and, in case of a mixture, the proportions of each kind of seed. Laboratory testing for noxious weeds shall be conducted prior to seed mixing. Only after a finding and documentation, in writing, of no weeds on the current "All States Noxious Weeds List," will the seed be accepted and used. Legume seed shall be inoculated with approved cultures in accordance with the instructions of the manufacturer. Seed analysis labels attached to the bags shall be provided to the Forest Service.