

STATE OF MONTANA

GOOD NEIGHBOR AUTHORITY - TIMBER SALE CONTRACT FOR STUMPAGE SOLD BY THE TON

VERSION 17 – JANUARY 2015

DEPARTMENT OF NATURAL RESOURCES & CONSERVATION 2705 Spurgin Road Missoula, MT 59804	NAME, ADDRESS AND PHONE NUMBER OF PURCHASER: 	
	Tax I.D. Number 	
LAND OFFICE SWLO	SALE NAME Rice	SALE NUMBER
UNIT OFFICE Clearwater	AWARD DATE 	TERMINATION DATE 11/1/2030

THIS TIMBER SALE CONTRACT (hereinafter called Contract or agreement) IS MADE AND ENTERED INTO by and between the State of Montana, acting through its Department of Natural Resources & Conservation, Forestry Division (hereinafter called the State) and (, a sole proprietorship; or , a partnership; or , Inc. a corporation) (hereinafter called Purchaser) having an office and principal place of business at the address shown above. Purchaser's bid for all timber and timber products described in this Contract has been accepted by the State after having been estimated, appraised and advertised for sale as required by law. Therefore, in consideration of the mutual promises contained in this agreement, the State agrees to sell and the Purchaser agrees to purchase the designated timber located on the areas described in this Contract at the specified rates of payment and in strict conformity with the requirements, standards, specifications and conditions set forth in this Contract.

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-ATTACHMENTS-			
The following attachments are hereby made a part of this contract:			
ATTACHMENT A: Timber Sale Maps		1 page	
ATTACHMENT B: Road Construction, Improvements and Maintenance Specifications		48 pages	
ATTACHMENT C: Forest Fire Regulations		2 pages	
ATTACHMENT D: Working in Bear Habitat Brochure		1 page	
ATTACHMENT E: Forest Resources Conservation and Shortage Relief Act		5 pages	
ATTACHMENT F: National Forest Food Sanitation Order		7 pages	
ATTACHMENT G: 124 Permit		4 pages	

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TABLE 1 - LEGAL DESCRIPTION OF THE GROSS SALE AREA			
The timber designated for sale under this Contract is within the following sale area			
	Sections	Tw	Rge
	15, 21, 22, 27, NE ¼ 28	17N	15W
Total approximate acres in gross sale area:	2,720		
Number of harvest units:	28		
Total acres in harvest units:	1,096		

TABLE 1 (continued) - ESTIMATED SALE VOLUME	
The state does not guarantee the product weight, by species or in total, to equal the estimated advertised weight in quantity or product designation.	
Product	Estimated Quantity (Tons)
Sawlogs	35,460
Other Material (pulp)	657
Total Estimated Volume	36,049

TABLE 1 (continued) - PAYMENT RATES			
Payment	Amount		Requirements
Performance Bond Amount:	20% of bid value		See Section II.A.1-3.
	Product	Amount	
Stumpage Rate per Ton:	Sawlogs Other Material	Bid Rate \$0.10/ton	See Section II.B.1-3.
Required Deposits (slash, etc.)	N/A		

TABLE 1 – (continued) – ROAD USE AND MAINTENANCE PAYMENTS		
Road Name or Number	Rate	Requirements
N/A	N/A	N/A

I. GENERAL TERMS

A. DEFINITION OF CONTRACT LANGUAGE: The following definitions apply to terms used in this Contract:

1. Administrator – The Good Neighbor Authority Bureau Chief, Forestry Division, Department of Natural Resources & Conservation
2. Draw – A swale or drainageway that may not have perceptible or definite beds or banks.
3. Environmental Law – Includes, but is not limited to, the following laws and any regulations promulgated under these laws: the Comprehensive Environmental Response, Compensation and Liability Act (“CERCLA”) (42 U.S.C. § 9601 *et seq.*), as amended; the Resource Conservation and Recovery Act (“RCRA”) (42 U.S.C. §§ 6901 – 6987), as amended; the Clean Air Act (42 U.S.C. § 7401, *et seq.*), as amended; the Safe Drinking Water Act (42 U.S.C. § 300f *et seq.*), as amended; the Clean Water Act (33 U.S.C. § 1401 *et seq.*), as amended; the Clean Air Act of Montana (Mont. Code Ann. § 75-2-101 *et seq.*), as amended; the Montana Water Quality Act (Mont. Code Ann. § 75-5-101 *et seq.*), as amended; the Montana Solid Waste Management Act (Mont. Code Ann. § 75-10-201 *et seq.*), as amended; the Montana Hazardous Waste Act (Mont. Code Ann. § 75-10-401 *et seq.*), as amended; the Montana Comprehensive Environmental Cleanup and Responsibility Act (Mont. Code Ann. § 75-10-701 *et seq.*) as amended; and the Montana Underground Storage Tank Act (Mont. Code Ann. § 75-11-501 *et seq.*) as amended.
4. Forest Officer – The State field representative assigned the job of contract administration for this timber sale Contract. Except as otherwise expressly stated in the Contract, the Forest Officer is not authorized to modify the contract on behalf of the State.
5. Hazardous or deleterious substance – Means a substance that, because of its quantity, concentration, or physical, chemical, or infectious characteristics, may pose an imminent and substantial threat to public health, safety, or welfare or the environment, and is:
 - a. A substance that is defined as a hazardous substance by section 101(14) of CERCLA, 42 U.S.C. § 9601(14), as amended.
 - b. A substance identified by the administrator of the United States Environmental Protection Agency as a hazardous substance pursuant to section 102 of CERCLA, 42 U.S.C. § 9602, as amended.
 - c. A substance that is defined as a hazardous waste pursuant to section 1004(5) of RCRA, 42 U.S.C. § 6903(5), as amended, including a substance listed or identified in 40 CFR 261.
 - d. Any petroleum product.
6. Operating period – The annual time period during which field activities (logging, hauling, construction, etc.) may be conducted.
7. Paid or payment – Except as otherwise expressly stated in the Contract, full remuneration by either cash, money order or certified check.
8. Purchaser – The signatory party to this Contract other than the Administrator. Purchaser is also defined to include employees and agents of the Purchaser authorized to conduct activities as required for execution of the timber sale Contract. As an independent contractor, neither the Purchaser, its employees or agents shall be considered employees of the State of Montana or the United States Forest Service pursuant to work performed under this Contract.
9. Sawlog – A green or dead log as further defined under Section VII.C.

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10. State – The State of Montana and its agents and employees, including but not limited to the Department of Natural Resources & Conservation.
11. USFS - The United States Forest Service and its agents and employees.
12. Stream – A stream is a natural watercourse of perceptible extent that has a sandy or rocky bottom or definite banks and confines and conducts continuously or intermittently flowing water.
13. Stumpage – The rate paid in dollars per ton as specified in Table 1 for Sawlogs and/or Other Material.
14. Supervisor – A person designated by the Purchaser in charge of operations on site at the sale area at all times when construction or harvesting operations are in progress. The Supervisor shall have authorization to receive notices from the Forest Officer and take appropriate action with regard to breach and/or violations of the terms of the contract.

B. REMOVAL OF TIMBER AND TITLE TRANSFER:

1. Provided the Purchaser has paid for timber as required in Section II.B.1, ADVANCE STUMPAGE PAYMENT, the Purchaser has the right to cut and remove timber from the sale area provided all Contract requirements related to the commencement of operations have been met.
2. Title to all timber included in this contract shall be retained by the USFS until:
 - a. The timber has been paid for.
 - b. The timber has been measured, as described in Section III.A. MEASUREMENT AND LOG ACCOUNTABILITY.
 - c. The timber has been properly marked, branded and ticketed as described in Section III.C & E. MEASUREMENT AND LOG ACCOUNTABILITY and Attachment E, which is attached hereto and incorporated herein by reference, and removed from the gross sale area.
3. Title to timber remaining on the gross sale area at termination of the contract shall remain with the USFS.
4. As documented in this contract, or otherwise agreed to, all roads and other improvements become the property of the USFS as they are constructed.

C. TERM OF CONTRACT: This Contract is effective upon approval and execution by the Administrator and shall terminate on the Termination Date shown on page 1 unless terminated sooner for successful completion or for gross or persistent breach and/or failure to promptly and properly remedy contract violations of the Contract terms pursuant to Section IV. B, TERMINATION.

D. PRE-OPERATIONS MEETING: No activity may occur on the sale area until a pre-operations meeting is conducted between the Purchaser and the State. The Purchaser shall notify the Forest Officer at least seven (7) days prior to the start of operations to schedule the pre-operations meeting. The Forest Officer will specify to the Purchaser what information the Purchaser must provide to the State at the pre-operations meeting.

E. ANNUAL OPERATING PLAN: Purchaser may be required to submit a written annual operating plan, as specified by, and at the request of the Forest Officer.

F. CONTRACT TERM EXTENSION:

1. In the event that Purchaser's operations are delayed and Purchaser is not able to complete the requirements of this Contract prior to the harvest completion date or the termination date, the State may grant an extension of the term of this Contract. An extension will be considered by the State under only the following circumstances:

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- a. The State determines an extension is in the USFS and State's best interests.
 - b. Purchaser applies for the extension in writing at least 30 days prior to the termination date.
 - c. The State notifies the Purchaser that an extension is required.
 - d. Purchaser has provided the State with written notice from the surety that the performance bond on this contract has been extended for a period commensurate with the requested contract extension.
 - e. Purchaser has made a good faith effort to complete the sale.
 - f. The extension request is not based on poor log and/or market conditions.
2. If the contract term extension is granted, Purchaser shall conduct continuous operations through the operating periods and/or resume operations at the start of the next operating period until the requirements of this Contract are completed. No extension shall be granted for a period longer than eighteen (18) months after the termination date as provided herein unless a longer extension is determined to be in the State's and USFS's best interest.
 3. If the extension is requested and granted because of delays resulting from matters within Purchaser's control, the following will apply:
 - a. Purchaser shall pay an extension fee of \$500.00.
 - b. Stumpage rates for any volume cut, skidded or hauled during the extension period will be escalated a minimum of 10%.
 - c. No de-escalation will occur from the time the extension is granted by the Administrator, as documented in a signed modification, through the remainder of the Contract.
 4. An extension may be granted to the Purchaser without penalty if the State prohibits logging activity for more than 2 weeks during the operating period described in this Contract.
 5. All conditions of this contract shall remain in force during any period of extension, unless those conditions are amended by the terms of the extension.
 6. In the event the Contract terminates pursuant to Section I.C, TERM OF CONTRACT due to expiration of the time period within which its performance shall have been completed, and the State has not granted an extension, the Purchaser shall immediately cease all operations within the Gross Sale Area as shown in Table 1. Operations beyond the contract termination date for which the State has not granted an extension will be treated as trespass.
- G. LIABILITY FOR LOSS:** The Purchaser is responsible for loss, degradation, or damage to timber while the timber is in his, her or its custody, including but not limited to, timber which has been felled, skidded or decked and/or timber which has been lost, damaged or stolen after removal from the sale area but before scaling or weight is recorded.
- H. SUPERVISION:** When construction or harvesting operations are in progress, the Purchaser shall have exclusive control over the manner in which the Contract is executed if, as determined by the State, the Purchaser has and is complying with all terms and conditions provided herein. Purchaser is required to have a supervisor(s) in charge of operations on the sale area at all times. Such supervisor(s) shall have authorization to receive notices from the Forest Officer and take appropriate action with regard to breach and/or violations of the terms and conditions of the Contract.
- I. COMPLAINTS:**

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1. Complaints by the Purchaser concerning any action or decision of a Forest Officer, including suspension orders, must be made in writing to the Administrator postmarked within 30 days of the disputed action or decision. In the interim, Purchaser must comply with the directions of the Forest Officer.
2. Upon receipt of a complaint, the Administrator, or a designated representative, shall promptly hold an informal conference with the Purchaser and the Forest Officer to review the disputed action. The Purchaser shall be given adequate notice of the conference and shall be given the opportunity to present evidence and an argument to rebut the reasons given by the Forest Officer for the disputed action. After review, the Administrator shall notify the Purchaser in writing of his decision. The decision of the Administrator is final on behalf of the State, except regarding termination of the contract.

J. ASSIGNMENT: This contract shall not be assigned in whole or in part unless approved in writing by the Administrator. Any person or entity that is currently suspended or debarred from bidding on or operating government contracts is also suspended or debarred from bidding or operating (including as a sub-contractor) on this contract.

K. MODIFICATIONS:

1. This Contract, together with the attachments listed herein, contains the entire agreement of the parties and no statements, promises or inducements made by either party, or agents of either party, that are not contained in such written Contract shall be valid or binding. This Contract, except as described in Section I.K.2 below, cannot be enlarged, modified or altered except upon written agreement signed by all parties to this contract. Only the Administrator, his successor, or his designated representative is authorized to enter into such modification on behalf of the State.
2. To protect cultural or natural resources the State may modify provisions of the Contract without prior agreement by the Purchaser.

L. EQUAL EMPLOYMENT OPPORTUNITY: Pursuant to Section 49-3-207, MCA, any hiring by the Purchaser under this agreement must be on the basis of merit and qualifications and there must be no discrimination on the basis of race, color, religious creed, political ideas, sex, marital status, physical or mental handicap, national origin or ancestry by any person performing this Contract.

M. LIABILITY INSURANCE:

1. Prior to the commencement of any work to be performed under this Contract, the Purchaser or their agents shall obtain, carry and keep in good standing for the remainder of the Contract period, with any extensions:
 - a. Comprehensive general liability insurance coverage to the limit of \$1,000,000.00 per occurrence and \$2,000,000.00 per aggregate. Each such policy shall include endorsements, which shall name the State, US Forest Service, its elected and appointed officials, agents and employees as additional insured and shall provide that the State shall be given 30 days written notice, at the address stated above, prior to cancellation or any material change in such policy.
 - b. Automobile Liability Insurance: The Purchaser shall purchase and maintain coverage with split limits of \$500,000 per person (personal injury), \$1,000,000 per accident occurrence (personal injury), and \$100,000 per accident occurrence (property damage), OR combined single limits of \$1,000,000 per occurrence to cover such claims as may be caused by any act, omission, or negligence of the contractor or its officers, agents, representatives, assigns, or subcontractors.
2. In lieu of such coverage, the Purchaser may provide proof of self-insurance in at least an amount equal to that provided above.

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3. Prior to the commencement of any work to be performed under this Contract, Purchaser shall deliver to the State a certificate of insurance from the insurer(s) of the Purchaser or their agents certifying that coverage in at least the amounts stated above is in force. Such certificate shall be submitted to the State for approval of the insurer(s), the amount, and the form. The State reserves the right to require a certified copy of any such policy or to examine the policy itself.
4. A self-insured Purchaser shall provide an equivalent certificate of insurance subject to the approval of the State.
5. It is further understood and agreed that this Contract shall terminate immediately in the event that the mandatory liability insurance coverage required under this part is for any reason not obtained or is discontinued.

N. WORKERS' COMPENSATION INSURANCE:

1. Prior to the commencement of any work under this Contract, Purchaser shall provide written verification to the Administrator that any and all individuals who are to be engaged in work under this Contract, including but not limited to employees, agents or independent contractors of the Purchaser or of its subcontractors, are either insured for workers' compensation coverage or are exempted from such coverage as certified independent contractors pursuant to § 39-71-401 MCA.
2. It is expressly understood and agreed that no such individual may engage in work in furtherance of this Contract at any time during its period unless either insured for workers' compensation coverage or exempted from such coverage as indicated above.
3. It is understood and agreed that this Contract shall terminate immediately in the event that workers' compensation coverage or exemptions required under this part is discontinued for any individuals engaged in work under this Contract.

O. SAFETY: The Purchaser, employees, subcontractors and their employees shall conduct their activities in a safe and workmanlike manner, shall cooperate in making it possible for the Forest Officer to safely, efficiently, and economically perform his, her or its administrative duties, and shall comply with federal and State safety standards for logging operations as established by the United States Department of Labor, Occupational Safety and Health Administration (OSHA; 29 Code of Federal Regulations 1910 and any other such applicable regulations promulgated by OSHA) and as required by Title 50, Chapter 71 of the Montana Code Annotated, and any regulations promulgated to implement the statutes found in that Title and Chapter of the Montana Code Annotated. The Purchaser, and not the State, is responsible for instituting and maintaining all precautions, procedures and programs for the safety of all persons on the project site, and the State hereby disclaims any and all responsibility for injuries or accidents occurring at the site.

P. SAWMILLS PROHIBITED: No sawmills shall be allowed to operate on the gross sale area.

Q. LOG CHIPPERS OR GRINDERS: No log chippers or grinders shall be allowed to operate on the gross sale area unless written approval to do so is granted by the Forest Officer. In order for approval to be granted, the Purchaser shall identify a method acceptable to the State for the measurement of all wood to be ground or chipped. If the Purchaser intends to operate a log chipper outside of the gross sale area, provisions must be made for obtaining certified weights of either the material removed from the sale or of the resultant products.

R. SALE DELAYED OR PRECLUDED BY JUDICIAL ACTION OR GOVERNMENT REGULATORY ACTION:

1. In the event judicial action, change in applicable law, or implementation of government regulatory action renders proceeding with this Contract unlawful, the State will suspend or terminate the Contract in whole or in part. Upon notice of such suspension or termination, Purchaser shall

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immediately cease all or any portion of such operations under the Contract as directed by the State. If a court of competent jurisdiction has entered a final judgment rendering further proceeding with this Contract unlawful, or government regulatory action takes effect, the State may terminate the Contract or, at the State's option, suspend the Contract in whole or in part, pending appeal of the court's final judgment. If the Contract is suspended, the State shall not be liable to the Purchaser for damages or losses resulting from the delay. In the event the Contract is terminated due to judicial action, a change in law, or government regulations, the State shall be liable to Purchaser only as follows:

- a. The State shall refund any portion of advance stumpage payments or down payments not needed to compensate the State for timber removed.
- b. The State shall release any portion of the performance bond not needed to compensate the State for timber removed or other losses suffered by the State due to breach of contract by the Purchaser.

S. VENUE AND CHOICE OF LAW: In the event of litigation concerning this agreement, venue shall be in the First Judicial District, Lewis and Clark County, Montana, and this agreement shall be governed by the laws of the State of Montana both as to interpretation and performance.

T. AUTHORIZATION TO ENTER: The Purchaser is authorized to enter the sale area only for purposes related to the performance of this Contract. Any person or entity that is currently suspended or debarred from bidding on or operating government contracts is also suspended or debarred from bidding or operating (including as a sub-contractor) on this Contract.

U. OTHER OPERATIONS BY THE STATE: The State or USFS reserves the right to at any time conduct within the gross sale area forest management operations including, but not limited to, slash piling, burning, handwork, broadcast burning, mop-up, patrolling, thinning and tree planting during the term of this Contract.

V. INDEMNITY AND LIABILITY:

1. The Purchaser agrees to indemnify the State and the USFS, its officials, agents, and employees, while acting within the scope of their duties and hold the State harmless from and against all claims, demands, and causes of action of any kind or character, including the cost of defense, arising in favor of the Purchaser's employees or third parties on account of bodily or personal injuries, death or damage to property arising out of services performed, goods or rights to intellectual property provided or omissions of services or in any way resulting from the acts or omission of the Purchaser and/or its agents, employees, subcontractors or its representatives while engaged in work under this Contract, all to the extent of the Purchaser's negligence.
2. The Purchaser shall be responsible for, indemnify, defend and hold the State and the USFS harmless from and against any loss, cost (including, without limitation, reasonable legal, accounting, consulting, engineering and similar expenses), damage, claim, fine or liability, including the necessity for tests, inspections or other work, and any damage, claim, fine or liability arising as a result of such tests, inspections or other work, the State must perform:
 - a. Based upon an actual or alleged violation by the Purchaser of, or failure by the Purchaser to comply with, any Environmental Law during the term of this Contract;
 - b. Arising from the discharge, release, threatened release, handling, storage, treatment, deposit or disposal of any Hazardous or Deleterious Substances caused or exacerbated by the activities of the Purchaser on or in the gross sale area during the term of this Contract; or
 - c. Otherwise arising out of or in connection with any environmental condition or action caused or created by the Purchaser.

- W. OTHER LAWS AND REGULATIONS:** This Contract is subject to all applicable federal, state, county, and municipal laws, ordinances, and regulations in effect at the date of this Contract or which may, from time to time, be adopted, and which do not impair the obligations of this Contract and which do not deprive the Purchaser of an existing property right recognized by law. A violation by the Purchaser of any federal, state, county, and/or municipal laws, ordinances and/or regulations while conducting operations under the terms of this Contract, shall, in the discretion of the State, constitute sufficient reason for the suspension or termination of this Contract. If any part of the lands or premises under this Contract are used or allowed or permitted to be used for any purpose contrary to the laws of this state or the United States, such unlawful use shall, in the discretion of the State, constitute sufficient reason for the suspension or termination of this Contract.
- X. FORCE MAJEURE:** Neither party shall be responsible for failure to fulfill its obligations due to causes beyond its reasonable control, including without limitation, acts or omissions of government or military authority, acts of God, materials shortages, transportation delays, fires, floods, labor disturbances, riots, wars, terrorist acts, or any other causes, directly or indirectly beyond the reasonable control of the nonperforming party, so long as such party is using its best efforts to remedy such failure or delays. Force majeure will not relieve the Purchaser from liability for damage or otherwise excuse performance of this Contract should the Purchaser cause a fire for which they would be liable under § 50-63-103, MCA.
- Y. CERTIFICATION REGARDING DEBARMENT AND SUSPENSION:** The Purchaser must complete and deliver to the State form AD-1047, Certification Regarding Debarment, Suspension, and Other Responsibility Matters – Primary covered transactions and form AD-1048 Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Lower tier Covered Transactions.

II. CHARGES AND PAYMENTS

A. PERFORMANCE BOND:

1. As a guarantee of the faithful performance of this Contract, Purchaser shall furnish a bond, with sufficient sureties, to the State in an amount equal to the potential loss to the State in the event of Purchaser's breach or default under the terms of this Contract as determined by the Administrator. The performance bond may be in cash, bond, irrevocable letter of credit, or certificate of deposit with sufficient sureties. A letter of credit must be automatically renewable without amendment for the term of the Contract. The bond shall not be less than five percent (5%) of the estimated value of the timber sold. The performance bond the Purchaser must submit for this Contract is shown in Table 1.
2. Upon full performance of the terms of the Contract, the State shall release the performance bond.
3. Upon substantial performance of the terms of the Contract, the Administrator may release a portion of the performance bond not needed to compensate the State for any remaining timber to be removed or any other losses that may be suffered by the State due to breach of Contract by the Purchaser. The bond shall not be reduced to less than five percent (5%) of the estimated value of the total Contract volume.

B. PAYMENTS: The Purchaser agrees to make payments to the Treasurer of the State of Montana as follows:

1. **ADVANCE STUMPAGE PAYMENTS:** The Purchaser is required to pay for all timber in advance of cutting at the rates shown in Table 1. Advance stumpage payments will be held by the State to cover the Purchaser's estimated timber cutting for at least six (6) weeks of operations. Advance stumpage payments may be reduced just before completion of the sale or when cutting requirements are to be suspended for at least 3 months. Advance stumpage payments may be in cash, bond, irrevocable letter of credit, or certificate of deposit with sufficient sureties.

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2. **INITIAL ADVANCE STUMPAGE PAYMENT:** The initial advance payment will be made by the Purchaser prior to the start of timber cutting operations.
3. **PAYMENT SCHEDULE:** Payments in full for individual invoices will be made by the Purchaser as called for by the Administrator; in no event will payments be made by the Purchaser more than 14 days from the date of billing.

C. ROAD USE AND MAINTENANCE PAYMENTS:

1. **PAYMENTS:** The Purchaser is required to make payments for road use and maintenance at the rates listed in Table 1 or as amended by revisions to road use permits. Payments will be made as called for by the Administrator or as otherwise directed in this Contract.
2. **ALTERNATE HAUL ROUTES:** The Purchaser is authorized by the State to use the haul route described in this Contract and attachments. If the Purchaser chooses to use an alternate haul route, that haul route must be approved by the State. Road use charges, maintenance requirements and payments may be adjusted to reflect the haul route used by the Purchaser. The Purchaser is responsible for obtaining any right-of-way required for an alternate haul route and for meeting all requirements of any agreements associated with that right-of-way. Proof of any such agreement must be provided to the State prior to use. Stumpage fees are not subject to a downward adjustment under this clause.

III. MEASUREMENT AND LOG ACCOUNTABILITY

A. PRODUCT MEASUREMENT:

1. The State will determine the value of products removed from the sale based on the total gross weight of material hauled. Weight tickets will be used to obtain the total value.
2. When mixed products with different payment rates per ton are hauled on one load, the entire load will be charged at the rate of the product with the highest value contained in the load.
3. Upon request by the State, the most recent load delivered to a receiving mill must be made available for inspection by the State or their representatives. The weight ticket identifying the load must remain affixed to the load.

B. WEIGHT TICKETS: The Purchaser is required to furnish weight tickets to the State as agreed to by the Forest Officer and the Purchaser.

1. All weight tickets shall be mailed or delivered with corresponding load tickets, as outlined below, directly to the DNRC Unit or Land Office administering this Contract. In this case, send truck tickets to **(Brian Cannata, DNRC, Southwest Land Office, 1401 27th Ave., Missoula, MT 59804)**. This requirement may be waived or changed by the Forest Officer.
2. Weight tickets shall show gross, tare and net weights and the corresponding load ticket number of each product load. Weight tickets must be from State of Montana certified scales, and all weight tickets must have mechanically stamped weights for the gross and tare weights unless otherwise permitted in writing by the Forest Officer. Weight tickets will be mailed or delivered to the State on a bi-weekly basis or as otherwise agreed to by the Forest Officer. A weight ticket will be considered as missing if not furnished within 4 weeks of the load delivery date. Failure to comply with this provision may be treated by the State as a contract violation.
3. Truck ticket information may be provided to DNRC electronically if all required ticket information is provided. The information must be provided to the State on a bi-weekly basis prior to the tenth (10th) and twenty-fourth (24th) of each month. The paper copy of the weight tickets must also

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continue to be provided to the State. The requirement to supply the paper copy of the weight tickets may be waived by the Administrator.

- C. LOAD TICKETS:** The Purchaser will be issued load ticket books with consecutively numbered tickets for uniquely identifying truckloads of logs. A load ticket shall be attached to the driver's side bunk log of each product load prior to hauling, with the Scaler's copy given to the State from the delivery point. The Purchaser shall complete each ticket with the sale information required by the State. The Purchaser shall provide to the Forest Officer a complete list of destinations to which loads will be delivered. The State, at its discretion, may require a separate ticket book for each destination. Failure to comply with this provision may be treated by the State as a contract violation.
- D. SORTING OF PRODUCTS:** The State may require separate ticket books for any loads sorted by the Purchaser by size or species or by specific products intended for different delivery points. Load tickets designated for a specific product must only be used for that specific product. When a load ticket is used with an incorrect product the State may treat such misuse as a contract violation.
- E. LOAD MARKING:** The Purchaser is required to mark all loads of logs before removal from the loading area to assist in identification while in transit or at the point of delivery. Marking shall be accomplished by painting "GNA" in blue paint and the last three digits of the truck load ticket number on log ends of at least three logs on each load, both front and back. The driver's side bunk log shall be one of the marked logs. Failure to comply with this provision may be treated by the State as a contract violation.
- F. PROMPT DELIVERY:** The Purchaser will deliver loads from the timber sale area to a receiving log yard directly without diversion. "Over-nighting" loads during transit are expressly forbidden unless approved by Forest Officer prior to hauling. Failure to comply with this provision may be treated by the State as a contract violation.
- G. SCALE RULE:**
 - 1. Any sawlogs scaled by the State shall be scaled using the Scribner Decimal "C" log rule. Log scaling will follow the procedures listed in the National Forest Log Scaling Handbook (FSH 2409.11) excluding Region 1 supplements.
 - 2. In cases where conversion is required, a conversion factor of **7.06** tons per thousand board feet will be used for sawlogs.
- H. LOG BRANDING:** This contract is subject to the Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 USC 620, *et seq.*). The Purchaser must comply with log branding and accounting rules in Attachment E.

IV. CONTRACT VIOLATIONS AND PENALTIES

A. SUSPENSION:

- 1. **FAILURE TO PAY ADVANCE STUMPAGE:** If Purchaser fails to submit advance stumpage payments as directed by the Administrator pursuant to the terms of this Contract within 30 days of the request for such payments, all operations covered by this Contract shall immediately cease upon written or oral order from the State until all required advance stumpage payments, or guarantee of payment satisfactory to the State, have been made. The cutting and removal of timber may resume only upon receipt of written notice to the Purchaser from the State that acknowledges adequate payment or guarantee.
- 2. **LOSS OF BOND:** If the surety bond or other bond securing performance of this Contract is canceled or otherwise becomes ineffective, operations covered by this Contract shall immediately

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cease upon written or oral order from the State to the Purchaser. Cutting and removal of timber may resume only upon receipt of written notice from the State that acknowledges adequate bond.

3. OTHER CONTRACT VIOLATIONS:

- a. Should the Forest Officer observe a condition that violates the terms of this Contract, the Forest Officer may verbally notify the Purchaser or its employees or subcontractors of such condition and immediately suspend all or part of the operations in the sale area to prevent harm to the interests of the State or the public. Should the Purchaser or its employees or subcontractors fail to comply with any verbal suspension order, the Administrator may terminate the Contract pursuant to Section IV. B. Termination. The Forest Officer may rescind his/her verbal suspension order upon satisfactory cure of the Purchaser's violation and operations may resume.
- b. Suspension orders may be given in writing or verbally to the Purchaser, or to his, her or its employees or subcontractors. Once given, the Purchaser, and his, her or its employees or subcontractors shall immediately comply with such order of suspension and failure to do so shall constitute grounds for termination of this Contract. Suspension orders are reviewable under the provisions described in Section I.I. COMPLAINTS.
- c. The Administrator may issue a written notice of suspension depending upon the severity of the violation and Purchaser's ability to cure. Such notice shall contain information regarding:
1. The breach observed and harm anticipated; 2. The Contract provisions violated; 3. If possible, the measures required to cure the violation and allow operations to resume; and 4. The deadline within which the Purchaser must cure the violation. Should the Purchaser fail to cure the violation as required, or to obtain a written variance from the Administrator, the Administrator may charge the Purchaser a \$250 per day penalty for every day that the violation persists. Operations may resume only upon written notice from the Administrator. If satisfactory measures or remedies cannot be found to cure the violation, the Administrator may immediately terminate the Contract pursuant to Section IV.B. TERMINATION.

B. TERMINATION:

1. Gross or persistent Contract violations and/or failure to promptly and properly remedy Contract violations by the Purchaser pursuant to the terms of this Contract shall be grounds for termination of the Contract by the State.
2. If this Contract is terminated by the State, the Administrator shall immediately notify the Purchaser of the termination and the reasons for it by certified mail. Such notice shall describe in what respects the Contract has been breached, the means, if any, by which the breach can be remedied and the consequences of such termination. The Contract shall be terminated 18 days from the date the notice is mailed to the Purchaser at the address stated in this Contract.
3. Upon receipt of the notice of termination the Purchaser shall immediately cease all operations pursuant to and permitted by the Contract until the termination is resolved as provided pursuant to this Section of the Contract, Section IV.B. TERMINATION.
4. If the Contract is reinstated the Purchaser will not be penalized for any delays that resulted from the appeal.
5. If the Contract is terminated for breach, it is understood that the State may refuse to accept bids or proposals submitted under 77-5-212 MCA from the Purchaser on future State timber sales and permits for a minimum period of 2 years.

C. LIABILITY FOR DAMAGES:

1. The Purchaser shall be liable for any damages sustained by the State arising from Purchaser's breach of the terms of this Contract and the State may cause all or part of the performance bond to be forfeited to recover such damages.
2. In the event that a portion of the timber sale under this Contract is resold as a result of the Purchaser's forfeiture and the stumpage rate pursuant to the resold contract is lower than the stumpage rate provided herein, the difference between the original rate and the new rate shall be considered damages and the Purchaser shall be liable to the State for those damages. The State may cause all or part of the Purchaser's performance bond to be forfeited to recover such damages.

D. STATE'S OPTION TO COMPLETE CONTRACT REQUIREMENTS: If the Purchaser fails to complete the requirements described in this Contract in a timely manner or if the Contract is terminated pursuant to Section IV.B. TERMINATION, the State reserves the right to complete the work itself or through a contractor. The Purchaser will be billed for any additional costs incurred by the State due to the Purchaser's failure to perform the requirements of this Contract. These additional costs may include State employee time and expenses that were extraordinary to the normal administration of the Contract, such as time and expenses incurred to hire a replacement contractor. Purchaser's failure to make payment within 14 days from the date of billing may cause all or part of the performance bond to be forfeited to recover such costs.

E. WAIVER OF PENALTIES: The penalties specified in this section shall be regarded as liquidated damages and may be waived or reduced at the discretion of the Administrator in exceptional cases.

F. FOREST PRACTICES LAWS: The Purchaser shall conduct logging operations in compliance with all applicable state and federal rules and laws relating to forest practices in the State of Montana. The Purchaser shall be responsible for all reclamation and penalties that result from violations of applicable forest practices rules and laws.

G. LOGGING REQUIREMENT VIOLATIONS:

1. **HIGH STUMPS:** The Purchaser may be charged \$25.00 for each tree stump cut higher than 12 inches on the side adjacent to the highest ground except in unusual cases when this height is not considered practical.
2. **LONG BUTTS:** The Purchaser may be required to pay \$25.00 per long butt for cutting long butts that contain useable material in excess of the minimum net scale in percentage of gross shown in Table 2.
3. **LARGE TOPS:** The Purchaser may be required to pay for cutting tops larger than the Top Diameter Inside Bark (DIB) shown in Table 2. This charge will be at the current contract rate for the net volume by species, or \$25.00 per large top, whichever is greater.
4. **UNDESIGNATED TREES:**
 - a. Undesignated or reserve trees that are cut or damaged as a result of Purchaser's operations shall be considered cut in trespass and the Purchaser may be charged three times the highest Contract stumpage rate (minimum \$10.00/ton) for the Contract product class(es) the tree contains.
 - b. If the Forest Officer determines that a suitable replacement for a reserve tree as described above is not available, Purchaser agrees to pay the State \$500.00 per tree, in addition to the rates charged in Section IV.G.4.a. UNDESIGNATED TREES.
5. **FAILURE TO REMOVE:** The State may charge the Purchaser for trees that are designated for cutting under the terms of this Contract and/or logs that meet the Manufacturing and Recovery

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Standards shown in Table 2 that are not removed from the sale area or presented for measurement. This charge may be up to triple the Contract stumpage rate plus the Forest Improvement rate for the class of material contained in those trees fixed in accordance with the terms of this Contract. If the State removes such material from the sale area, the Purchaser will be required to reimburse the State for all applicable cutting, yarding, processing, loading and hauling costs.

6. **LOSS IN WEIGHT DUE TO PURCHASER DELAY:** A 15% increase in net weight of logs may be added by the State for loss in weight due to delay by the Purchaser in delivering cut logs to the manufacturing point. A delay is defined as in excess of 30 days after felling.

H. MEASUREMENT AND LOG ACCOUNTABILITY VIOLATIONS:

1. **MISSING LOAD TICKETS:** The Purchaser will be charged up to \$500.00 for each unused load ticket that the Purchaser has lost or misplaced while in his, her or its possession. An unused ticket is defined as a ticket that is not turned into the State with an associated truckload weight.
 2. **FAILURE TO ATTACH OR COMPLETE LOAD TICKET:** The Purchaser may be charged \$500.00 per load for failure to attach a load ticket to each product load prior to hauling, or for failure to complete the load ticket with all required information.
 3. **MISSING WEIGHT TICKETS:**
 - a. The Purchaser may be charged triple the Contract stumpage rate [stumpage x 3 = penalty] for each truck weight ticket not furnished to the State.
 - b. The Forest Officer will notify the Purchaser of each missing weight ticket.
 - c. The load weight will be determined by averaging weights from other loads hauled by the Purchaser to the same mill within the same billing period, or 30 tons for single loads and 38 tons for loads with a pup trailer attached.
 - d. For Other Material, as defined by this Contract, the minimum stumpage for purposes of penalty shall be \$10.00 per ton or the Contract stumpage rate multiplied by 3, whichever is higher.
 4. **IMPROPERLY LABELED PRODUCT:** The Purchaser may be charged up to \$1,500.00 per load for loads with an incorrect load ticket for the product (Sawlog or Other Material) in the load. In addition, the stumpage paid for an improperly ticketed load shall be at the highest Contract stumpage rate for products hauled pursuant to this Contract.
 5. **IMPROPERLY MARKED LOADS:** The Purchaser may be charged forty dollars (\$40.00) per load for each load not marked in accordance with Section III.E. LOAD MARKING.
- I. FAILURE TO MEET COMPLETION DATES:** The Purchaser may be charged \$100.00 for each complete calendar day the Purchaser fails to meet the deadlines shown in Table 3 and Table B1.
- J. LATE PAYMENTS:** The Purchaser may be charged \$100.00 per day beginning the 15th day after the billing date for failure to pay for forest products, pursuant to Section II.B PAYMENTS.

V. FIRE PROTECTION

- A. FIRE REGULATIONS:** The Purchaser is required to conduct all operations in accordance with the Montana Forest Fire Regulations, Attachment C, which by this reference is made a part of this Contract.

- B. FIRE PREVENTION:** During the time that this Contract remains in force, the Purchaser shall, to the greatest extent practicable, prevent forest fires on the area described in this Contract and in its vicinity, and shall require all employees, contractors and employees of contractors to do likewise.
- C. OPEN BURNING REQUIREMENTS:** The Purchaser is required to conduct any burning of slash or other debris in accordance with the Montana Department of Environmental Quality open burning restrictions. The Forest Officer must be notified prior to the start of any burning operations.
- D. FIRE SUPPRESSION:** Unless prevented by circumstances over which he, she or it has no control, the Purchaser shall place qualified employees, contractors and employees of contractors and all equipment at the disposal of any authorized State, County, or Federal Forest Officer for the purpose of fighting forest fires. Payment for such services shall be made at rates to be determined by the Forest Officer, which shall be within a range of payment rates shown in the Interagency Incident Business Management Handbook, NWCG Handbook 2. Any employees or equipment furnished by the Purchaser, contractors or employees of contractors, shall be relieved from fire fighting as soon as it is practicable for the Forest Officer to obtain other adequate labor or equipment.
- E. FIRE COSTS:** The costs borne by the Protecting Agency for suppressing fires that are intentionally lit by the Purchaser or that are caused by negligence or fault in the Purchaser's operations shall be paid by the Purchaser to the Protecting Agency. The Purchaser shall also be liable for property and resource damage resulting from these fires.
- F. FIRE REPORTING:** Any wildfires, which the Purchaser detects or suppresses, must be reported as soon as possible to the responsible fire protection agency and the State.
- G. SUSPENSION OF OPERATIONS:** When fire danger reaches extreme levels that cause operations to be curtailed through Stage II, Hoot Owl requirements or other measures, the State may suspend operations until fire conditions in and/or around the sale area improve. The State will grant a contract extension to compensate for the time suspended.
- H. CONTACT INFORMATION:** The Purchaser will provide the Forest Officer with phone numbers of the Purchaser and their employees and contractors when logging operations are in progress (including nights and weekends), in order to establish contact if a wildfire occurs within the sale area or on other lands accessed by road systems associated with the sale.

VI. RESOURCE PROTECTION

- A. DAMAGE PREVENTION:** The Purchaser shall use reasonable skill and care in all operations to prevent damage to soils, trails, meadows, stream banks, stream channels, wetlands, lakeshores or other natural features of the sale area.
- B. STREAM PROTECTION:**
1. Construction and logging equipment will not be operated in Streamside Management Zones. An exception may be provided for, under this Contract, through the procurement of an Alternative Practice (with approval of the Forest Officer). Additional protection measures may be required in Section VII.G, SPECIAL OPERATING REQUIREMENTS and in Contract Attachments.
 2. The Purchaser shall notify the Forest Officer immediately if debris from logging or construction enters a stream or stream channel.
 3. Under the direction of the Forest Officer, the Purchaser shall remove any debris in a stream resulting from logging or construction operations. This work will be completed in a manner that causes the least disturbance to the streams.

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4. Logs shall not be hauled, skidded or yarded across streams unless the logs are fully suspended, or otherwise yarded as specified in this Contract. An approved Alternative Practice must be in place. The Forest Officer must approve all logging and construction plans, including changes, before implementation.
5. All operations shall be conducted in a manner to comply with Montana Water Quality Standards, the Streamside Management Zone Law, and all applicable permits.

C. CULTURAL RESOURCES: If a cultural resource is discovered, the Purchaser shall immediately suspend all operations in the vicinity of the cultural resource and notify the Forest Officer. Operations may only resume if authorized by the Forest Officer. Cultural resources identified and protected elsewhere in this Contract are exempted from this clause. Cultural resources, once discovered or identified, are not to be disturbed by the Purchaser, or his, her or its employees and/or sub-contractors. All Historic features will be protected from project activities.

D. DISCOVERY OF THREATENED AND ENDANGERED SPECIES:

1. If a specific habitat feature for a federally listed threatened or endangered species is encountered, the Purchaser shall suspend all operations in the vicinity of the observation or discovery and immediately notify the Forest Officer. Operations may resume only if authorized by the Forest Officer. Habitat features identified and protected elsewhere in this Contract are exempted from this clause.
2. If a federally listed threatened or endangered species is encountered, the Purchaser shall immediately notify the Forest Officer. The Purchaser may be required to suspend operations in the vicinity of the observation or discovery. If suspended, operations may resume only if authorized by the Forest Officer.

E. SANITATION: The Purchaser's operations, as described by this Contract, shall comply with all applicable State laws, rules and regulations concerning sanitation in operations. Refuse resulting from the Purchaser's activities, including the use, servicing, repair, or abandonment of equipment, shall be removed, buried or otherwise disposed of in a manner that complies with all State laws and meets the approval of the Forest Officer. The Purchaser shall not service tractors, trucks and similar pieces of equipment on lands that directly drain into or are within 100 feet of lakes, streams or recreational facilities. No logging camp will be located on the gross sale area without prior approval by the Forest Officer.

F. HAZARDOUS SUBSTANCES: In addition to the indemnification provided in Section I.W.2. INDEMNITY AND LIABILITY, with respect to Hazardous Substances, the following duties shall apply:

1. The Purchaser shall know and comply with regulations governing the storage, handling, application, disposal, and reporting of pesticides, herbicides, containers, biological waste, petroleum products, dust abatement compounds, and other hazardous substances. The Purchaser shall obtain the approval of the Forest Officer to store, handle, apply or dispose of these substances on the gross sale area.
2. The Purchaser shall not transport, handle, store, load, apply, or dispose of any hazardous substance in such a manner as to pollute water supplies or waterways, or cause damage or injury to people, land, desirable plants, and animals.
3. **Contractors will have spill prevention and containment materials on site to minimize the risk of an accidental spill of petroleum products.**
4. **The Purchaser and/or Contractor shall notify the Forest Officer immediately of Hazardous Material Spills.**

- G. PROTECTION OF IMPROVEMENTS:** The Purchaser shall to the greatest extent practicable protect from damage all gates, signs, telephone lines, power lines, fences, irrigation ditches, cattle guards, drainage structures, road improvements, and any other improvements or infrastructure within the gross sale area and/or along haul routes. Damages caused by the Purchaser, his, her or its employees or subcontractors, and expenses associated with the repair or replacement of damaged structures and improvements are the sole responsibility of the Purchaser.
- H. PROPERTY CORNER RESTORATION:** The Purchaser is required to replace any General Land Office township, section, quarter or meander corners, monuments or witness trees on or adjacent to the timber sale area which may have been moved, disturbed or lost, as a result of the Purchaser's logging or construction operations. Any necessary replacements must be carried out by a licensed surveyor at the Purchaser's expense.
- I. PASSABLE ROADS:** The Purchaser will leave all roads and trails free from obstruction by logs, brush or debris following the completion of logging operations. Temporary or permanent obstructions may be acceptable if approved by the Forest Officer.
- J. WASHING EQUIPMENT:** In order to prevent the spread of noxious weeds into the Sale Area, Purchaser shall be required to clean all logging equipment and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks and cars prior to entry on to the Sale Area. This cleaning shall remove all soil, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Only logging and construction equipment so cleaned and inspected by the Forest Officer will be allowed to operate within the Sale Area. All subsequent move-ins of equipment to the Sale Area shall be treated in the same manner as the initial move in.

All equipment used in road construction and off-road logging activity must be pressure-washed by the Purchaser and inspected by the Forest Officer prior to entering the sale area. This cleaning will remove all dirt, plant parts, and material that may carry noxious weed seeds into the sale area. Other equipment and vehicles entering and leaving the sale area shall be cleaned prior to start up and kept reasonably clean during the course of operations. All subsequent move-ins of logging and construction equipment shall be treated the same as the initial move-in. Purchaser shall employ whatever cleaning methods are necessary to ensure that all logging and construction equipment is free of noxious weeds. Equipment shall be considered free of soil, seed, and other such debris when a visual inspection does not disclose such material. Disassembly of equipment components or specialized inspection tools is not required.

Unless otherwise agreed, Purchaser shall give the Forest Officer at least 24 hours' notice when equipment is ready for inspection. Notification will include an agreed upon location where the equipment will be available for inspection.

- K. NOXIOUS WEED MANAGEMENT:** All roads being used by the Purchaser shall be treated with herbicide to remove seed-bearing noxious weeds, before and after final completion of haul activities. See Attachment B Section 9.C

New infestations of noxious weeds, of concern to DNRC and identified by either Purchaser or Forest Officer, in the Sale Area or on the haul route, shall be promptly reported to the other party. Purchaser and Forest Officer shall agree on treatment methods to reduce or stop the spread of noxious weeds when new infestations are found. A current list of noxious weeds of concern is available upon request.

L. AQUATIC INVASIVE SPECIES MANAGEMENT: All equipment operated in or adjacent to streams, lakes, or other bodies of water must be pressure by the purchaser and inspected by the forest officer prior to entering the sale area. This cleaning will remove all dirt, plant parts, and other material that may carry aquatic invasive species. Drafting from water sources with known aquatic invasive species is prohibited. When drafting, intake hoses must be fitted with a screen mesh equal to or smaller than 3/32 inches. If drafting from streams occurs place intake hoses in low velocity portions of the stream channel.

M. WILDLIFE PROTECTION:

1. The Purchaser is authorized to enter areas closed by gates, barricades or berms with motorized vehicles only for the purposes related to the performance of this Contract. Motorized vehicle entry for purposes other than contract performance, such as hunting or transporting game animals will be considered trespass and prosecuted to the fullest extent of the law (Montana Code Annotated § 45-6-203).
2. The Purchaser is prohibited from carrying firearms while conducting contract operations [ARM 36.11.432(1)(m); 36.11.433(1)(d); 36.11.443(2)].
3. The Purchaser will store human or pet food, livestock food, garbage, and other attractants in a bear-resistant manner.
4. The Purchaser will not bury or discard attractants in the sale area, or burn attractants (such as food leftovers) in an open campfire.
5. The Purchaser will provide each employee with a copy of Attachment D "Working in Bear Habitat" Brochure.
6. The Purchaser will comply with Attachment F, the Lolo National Forest Food Storage Order #R1-2023-02.
7. Wildlife features such as wallows, mineral licks, and seeps will be protected.

N. PROTECTION OF SENSITIVE PLANTS: If previously undocumented populations of sensitive plants listed on the Regional Forester's Sensitive Species List are encountered, the Purchaser shall immediately notify the Forest Officer. The Purchaser may be required to suspend operations in the vicinity of the observation or discovery. If suspended, operations may resume only if authorized by the Forest Officer. If an incidental occurrence of any size class of whitebark pine is encountered within the project area, immediately notify the Forest Officer to ensure any protective measures may be prescribed.

VII. LOGGING

A. TREES DESIGNATED FOR CUTTING: All trees meeting the following requirements must be cut by the Purchaser.

1. **TREES IN UNITS:** Trees that meet the Minimum Log Size of Trees Designated for Cutting in Table 2 are to be cut in each unit according to the marking specifications shown in Section VII.F. **UNIT DESIGNATIONS.**
2. **RIGHT-OF-WAY TREES:** All trees within road right-of-way boundaries must be cut.
3. **DAMAGED TREES:** Reserved trees, which are root-cut, damaged by felling or skidding, uprooted or broken off by the Purchasers operations may be designated for cutting by the Forest Officer. The Forest Officer may mark additional reserve trees to replace those that have been cut or damaged.

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4. **FIRE KILL, INSECT INFESTATIONS AND WIND THROWN:** The Purchaser may be required to cut and remove at current contract rates, fire-killed, high hazard, disease infected, insect-infested or wind thrown (defined as blown down or wind-damaged to the extent that the tree is expected to fall or is dying) trees that occur in any part of the gross sale area while this Contract is in effect, if the Forest Officer determines that the stumpage value per ton of the additional timber is approximately equal to the value of the timber being harvested under this Contract .

B. TREES RESERVED FROM CUTTING:

1. **LEAVE TREES:** Trees, both live and dead, marked to leave or otherwise described to leave are reserved from cutting. Any trees not specifically required to be cut are reserved from cutting.
2. **BOUNDARY AND BEARING TREES:** Trees marking the boundaries of ownership, logging units, equipment restriction zones, streamside management zones, road rights-of-way, and bearing trees, are reserved from cutting unless otherwise designated by this Contract or by the Forest Officer.
3. **VALID CLAIMS:** Timber to which there exists a claim under valid contracts with the State of Montana is exempted from this sale.

C. LOG MANUFACTURING AND RECOVERY STANDARDS:

1. **SAWLOG STANDARDS:** Trees cut by the Purchaser shall be manufactured to secure the maximum utilization of forest products according to III.G.1. All logs that meet or exceed the Manufacturing and Recovery Standards in Table 2 and this section shall be skidded to landings and hauled by the Purchaser.
 - a. Logs shall be bucked to utilize the entire length of the tree to the top diameter specified under Manufacturing and Recovery Standards in Table 2.
 - b. Logs meeting utilization specifications in Table 2 shall be manufactured in such a manner as to minimize waste during bucking operations.
 - c. A live tree or log larger than 7" at DBH is considered to be a sawlog if it contains Scribner Decimal C Net Scale $\geq 33\%$ of Gross.

2. OTHER MATERIAL:

The Purchaser may elect to remove other material that does not meet Sawlog Manufacturing and Recovery Standards in Table 2, only if approved by the Forest Officer. Such products shall be billed at the rate for other material shown in Table 1.

- a. All contract provisions apply to the removal of Other Material.
- b. Other Material that has been manufactured by the Purchaser shall be decked and hauled separately from sawlogs. All decked non-sawlog material must be hauled or disposed of by the Purchaser in accordance with instructions of the Forest Officer. All hauled loads will have a truck ticket assigned and will meet the specifications in Section III, MEASUREMENT AND LOG ACCOUNTABILITY.
- c. Butt cut logs (the first log cut above the stump) that meet LOG MANUFACTURING AND RECOVERY STANDARDS in Table 2, but do not meet TREES DESIGNATED FOR CUTTING minimum top DIB and length, may be considered as Other Material, not sawlogs.
- d. Sub merchantable Harvest Prescription:
 - Cut all sub-alpine fir, grand fir, lodgepole and Douglas-Fir greater than 4" and less than 7" DBH.

- Leave all quality Ponderosa Pine and Western Larch less than 7".
- e. The purchaser has the option of disposing of other material by using any of the following methods, in accordance with instructions of the Forest Officer:
- Processing into a pulp log and hauling at the rate listed for Other Material in Table 1.
 - Processing into other product log and hauling at the rate listed for Other Material in Table 1.
 - Skidded to a landing pile (subject to contract constraint on landing pile size).
 - Lopped and scattered within the unit (subject to slash height constraint).
3. **DOWN WOODY MATERIAL:** 8 to 12 tons per acre of downed woody material larger than 3 inches in diameter shall be left scattered throughout the sale units. All existing soil wood (wood in an advanced state of decay) will be retained unless it is deemed a hazard to equipment operations. The Forest Officer will determine the appropriate amount of material and may designate pieces to be left for this purpose that would otherwise be skidded and hauled under Sections VII.C.1 or VII.C.2, LOG MANUFACTURING AND RECOVERY STANDARDS.
4. **NUTRIENT RETENTION:** Removal from the site of fine branches and leafy material shall be minimized unless whole tree yarding is specified in VII.F Unit Designations.
5. **SNAGS:** The Purchaser will retain a minimum of 4-6 snags or snag substitutes per acre >10" DBH. If snags present human safety concerns, the Purchaser may substitute snag recruits for snags upon approval of the Forest Officer. Snags cut for safety purposes shall remain in the unit.

TABLE 2.					
PRODUCT	TREES DESIGNATED FOR CUTTING		LOG MANUFACTURING AND RECOVERY STANDARDS		
	The Purchaser must fell all trees marked or designated for cutting that contain a log of this minimum size.		The Purchaser must skid and haul all sawlogs that meet this minimum specification. The Purchaser must handle Other Material according to contract provision V. II. C.2		
	Minimum Diameter at Breast Height (DBH)	Minimum Log Length	Top DIB	Length	
Sawlogs	7.0"	16.5'	5.6" – 7.5" 7.6"+	16.5' 10.5'	Sawlogs meeting standards in Section VII.C.1.b through c.
Other Material	4.0"	25'	2.5"	25'	The Purchaser must handle Other Material according to contract provision VII. C.2 a.- f.

D. TREE AND BOUNDARY MARKING:

1. DESIGNATION BY PRESCRIPTION: If the Purchaser fails to meet the cutting prescription in section VII F. cutting operations will be suspended and the Forest Officer will require leave trees to be marked by the Purchaser, and the marking to be approved by the Forest Officer prior to cutting.
2. TREES MARKED TO CUT: N/A
3. TREES MARKED TO LEAVE: N/A
4. HARVEST UNIT BOUNDARIES: Marked with three horizontal orange paint stripes, facing into unit, and blue flagging.
5. ROAD RIGHT-OF-WAY BOUNDARIES: Centerline of temporary road locations flagged with pink color flagging; Road stations marked with combination of pink flagging and blue polka dot flagging.
6. PROPERTY BOUNDARIES: Marked with red blazes, three horizontal orange paint stripes, and blue flagging.
7. STREAMSIDE MANAGEMENT ZONE BOUNDARIES: The State has marked with fluorescent orange flagging stenciled with "STREAMSIDE MANAGEMENT ZONE".
8. EQUIPMENT RESTRICTION ZONE BOUNDARIES: Marked with yellow and black flagging. Harvesting is allowed within the ERZ. Apply unit harvest prescription.

E. HARVEST SCHEDULE: The purchaser must cut and remove trees from the sale or portions of the sale, such as units, by the dates shown on the HARVEST COMPLETION SCHEDULE, Table 3:

TABLE 3. HARVEST COMPLETION SCHEDULE

Schedule	Unit or Portion of Sale	Operating Period	Completion Date
1	Units 49 and 183	Dry or Frozen (see VII.L.2-3)	11/1/2026
2	Unit 26	Dry or Frozen (see VII.L.2-3) April 1 – November 30 only	11/30/2029
2	All Remaining Harvest Units	Dry or Frozen (see VII.L.2-3)	3/15/2030
3	Unit Cleanup and Completion, Temp Road Decommissioning	Dry, not Frozen	11/1/2030

F. UNIT DESIGNATIONS: The following requirements are to be performed by the Purchaser in the harvest units listed below and as shown in Attachment A sale unit maps.

Leave Tree Selection Process: Designation by Prescription

- A “quality” tree has
 - A-shaped live crown of 30% or greater
 - Good form (straight, without crook(s), fork(s) or sweep)
 - Abundant foliage with healthy color appearance
 - Large diameter and height relative to nearby trees
 - No signs of insect damage, mistletoe or disease
- Species preference is a higher priority than “quality” requirements if a tree has only minor defects: PP>WL>DF>ES>LP
- Grouping of 2-3 leave trees is desired provided they are free to grow on 3 sides and gaps left around groups.
- Individual leave tree spacing may vary to achieve unit-wide goals.

General Guidelines for all Units

- Retain all western white pine (Notify Forest Officer if identified).
- Harvest all dead and dying DF within 200’ of any road or trail.
- Harvest merchantable down material (subject to coarse woody debris retention requirements).
- Leave dead PP and WL trees. Leave 4 – 6 snags or snag substitutes per acre >200’ from roads and trails. Leave dead DF trees where PP/WL do not occur.
- Protect good quality advanced regeneration whenever possible.
- Harvest all AF >4” DBH.
- Leave 8-12 tons per acre of downed wood material larger than 3 inches in diameter scattered throughout the sale units.
- DF leave-trees 7”-14” DBH are preferred.
- Feather treatment areas for 50-100 feet against riparian buffers and non-treatment areas.

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Unit	Acres	Yarding	Est. Volume (Tons)
2	2	Ground-Lead or Tether	53
20	54	Cut-to-Length	2045
20A	3	Ground-lead or Tether	113
21	25	Whole Tree or Cut-to-Length	1396
23	25	Cut-to-Length	786
23A	13	Cable or Tether	401
24	15	Whole Tree or Cut-to-Length	525
25	23	Cut-to-Length	998
49	65	Whole Tree or Cut-to-Length	2202
Harvest Rx: <i>Regeneration Harvest</i>			Timber Designation: SD,DxP
<u>Species Designation:</u>			
<ul style="list-style-type: none"> • Retain all PP • Retain all quality WL regardless of spacing. 			
<u>Designation by Prescription:</u>			
<ul style="list-style-type: none"> • Meet Basal Area target of 20-40ft² across the stand. • Where PP and WL do not meet average BA target, Retain the best quality DF with emphasis placed on leaving smaller diameter trees where available. • Additionally, retain best quality LP < 8" DBH, emphasizing smaller diameter trees. • Leave 4-6 snags or snag substitutes (live, defective trees) per acre >200' from roads and trails. • Harvest all AF >4" DBH. 			

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Unit	Acres	Yarding	Est. Volume (Tons)
26	34	Cut-to-Length	2037
Harvest Rx: <i>Regeneration Harvest</i>			Timber Designation: SD,DxP
<u>Species Designation:</u>			
<ul style="list-style-type: none"> • Retain all PP • Retain all quality WL regardless of spacing. 			
<u>Designation by Prescription:</u>			
<ul style="list-style-type: none"> • Meet Basal Area target of 20-40ft² across the stand. • Where PP and WL do not meet average BA target, Retain the best quality DF with emphasis placed on leaving smaller diameter trees where available. • Additionally, retain best quality LP < 8" DBH, emphasizing smaller diameter trees. • Leave 4-6 snags or snag substitutes (live, defective trees) per acre >200' from roads and trails. • Harvest all AF >4" DBH. 			
<u>Special Operating Requirements:</u>			
2. Restricted Operating Period			

Unit	Acres	Yarding	Est. Volume (Tons)
14	52	Cut-To-Length	1907
15	30	Cut-To-Length	1083
Harvest Rx: <i>Regeneration Harvest</i>			Timber Designation: SD, DxP
<u>Species Designation:</u>			
<ul style="list-style-type: none"> • Retain all PP • Retain all DMT-free WL >20" 			
<u>Designation by Prescription:</u>			
<ul style="list-style-type: none"> • Retain the best quality WL <20" DBH. • Meet Basal Area target of 20-40ft² across the stand. • Where PP and WL do not meet average BA target, Retain the best quality DF or ES emphasis is placed on leaving smaller diameter trees where available. • Additionally, Retain the best quality LP <8" DBH emphasizing smaller diameter trees. • Leave 4-6 snags or snag substitutes (live, defective trees) per acre >200' from roads and trails. • Harvest all AF >4" DBH. 			
<u>Special Operating Requirements:</u>			
1. Soils			

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Unit	Acres	Yarding	Est. Volume (Tons)
16	4	Cut-to-Length	262
17	64	Cut-to-Length	1647
19	18	Whole Tree or Cut-to-Length	875
Harvest Rx: <i>Regeneration Harvest</i>			Timber Designation: SD, DXP
<u>Species Designation:</u>			
<ul style="list-style-type: none"> • Retain all PP • Retain all DMT-free WL >20" 			
<u>Designation by Prescription:</u>			
<ul style="list-style-type: none"> • Retain the best quality WL <20" DBH. • Meet Basal Area target of 20-40ft² across the stand. • Where PP and WL do not meet average BA target, Retain the best quality DF or ES emphasis is placed on leaving smaller diameter trees where available. • Additionally, Retain the best quality LP <8" DBH emphasizing smaller diameter trees. • Leave 4-6 snags or snag substitutes (live, defective trees) per acre >200' from roads and trails. • Harvest all AF >4" DBH. 			

Unit	Acres	Yarding	Est. Volume (Tons)
18	116	Whole Tree or Cut-to-Length	4499
18C	8	Ground-Lead or Tether	487
18D	24	Cut-to-Length	930
33	55	Whole Tree or Cut-to-Length	1819
Harvest Rx: <i>Commercial Thin</i>			Timber Designation: SD, DXP
<u>Species Designation:</u>			
<ul style="list-style-type: none"> • Retain all PP • Retain all DMT-free WL >20" 			
<u>Designation by Prescription:</u>			
<ul style="list-style-type: none"> • Retain the best quality WL <20" DBH. • Retain the best quality DF & ES. Emphasis is placed on leaving smaller diameter trees where available. • Retain the best quality LP <8" DBH • Trees should be retained as necessary to meet average Basal Area retention objective of 40-60 sq. ft. per acre. 			

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Unit	Acres	Yarding	Est. Volume (Tons)
22	72	Cut-to-Length	3172
Harvest Rx: <i>Commercial Thin</i>			Timber Designation: <i>SD, DxP</i>
<u>Species Designation:</u>			
<ul style="list-style-type: none"> • Retain all PP • Retain all quality WL regardless of spacing 			
<u>Designation by Prescription:</u>			
<ul style="list-style-type: none"> • Additionally, retain the best quality trees to achieve average basal area target of 40-60 sq. ft. in following order of preference: DF, ES and LP <8" DBH. • Leave 4-6 snags or snag substitutes (live, defective trees) per acre >200' from roads and trails. • Harvest all AF >4" DBH. 			

Unit	Acres	Yarding	Est. Volume (Tons)
18A	46	Excaine or Tether	1955
18B	7	Ground-Lead or Excaine or Tether	259
Harvest Rx: <i>Commercial Thin</i>			Timber Designation: <i>SD, DxP</i>
<u>Species Designation:</u>			
<ul style="list-style-type: none"> • Retain all PP • Retain all DMT-free WL >20" 			
<u>Designation by Prescription:</u>			
<ul style="list-style-type: none"> • Retain the best quality WL <20" DBH. • Retain the best quality DF & ES. Emphasis is placed on leaving smaller diameter trees where available. • Retain the best quality LP <8" DBH • Trees should be retained as necessary to meet average Basal Area retention objective of 40-60 sq. ft. per acre. 			
<u>Special Operating Requirements:</u>			
3. Restricted Operating Period			

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Unit	Acres	Yarding	Est. Volume (Tons)
109	26	Whole Tree or Cut-to-Length	693
112	44	Whole Tree or Cut-to-Length	867
115	13	Whole Tree or Cut-to-Length	250
118	13	Whole Tree or Cut-to-Length	220
172	81	Whole Tree or Cut-to-Length	1579
173	74	Whole Tree or Cut-to-Length	1340
183	91	Whole Tree or Cut-to-Length	1060
<p>Harvest Rx: <i>Young Forest Mechanized (Commercial) Thin</i> Timber Designation: <i>SD, DxP</i></p> <p><u>Species Designation:</u></p> <ul style="list-style-type: none"> • Retain all PP <p><u>Designation by Prescription:</u></p> <ul style="list-style-type: none"> • Retain the best quality tree on a 25' average spacing throughout the stand ranging from 10-30 feet between leave trees in the following order of preference: PP/WL > DF > ES > LP > AF 			

G. SPECIAL OPERATING REQUIREMENTS: The following requirements are to be performed by the Purchaser in specific sale units as shown in Section VII.F, UNIT DESIGNATIONS.

1. Soils: Units 14, and 15 have sensitive soils at high risk for unacceptable levels of detrimental soil disturbance (DSD). As a result, unit harvest will be restricted to Winter Conditions only. Additionally, Cut-to-Length equipment are required in units 14 and 15 and must operate on a slash mat during the course of harvest operations to mitigate potential soil disturbance. *For Definition of Winter Conditions, See Section VII.L.2-3*
2. Restricted Operating Period: Operations in Unit 26 will be restricted to April 1 – November 30 in any given year. No operations will be allowed outside of this operational period. Access into unit on FR 4369 will also be restricted to April 1- November 30.
3. Restricted Operating Period: If Purchaser elects to utilized tethered harvest system in units 18A or 18B, winter harvest will be required. Winter Harvest restrictions not required if excaline or traditional cable yarding is utilized. *For Definition of Winter Conditions, See Section VII.L.2-3*

H. LOGGING OPERATIONS PLAN: The Forest Officer shall approve a plan for felling, yarding, and landing logs (both Sawlogs and Other Material) in each harvest unit prior to the start of operations in that unit. The plan will ensure that soil disturbance is minimized.

I. SKID TRAIL LAYOUT AND YARDING PLAN: The Purchaser must follow these requirements along with those shown under VII.G. SPECIAL OPERATING REQUIREMENTS when developing a yarding plan for each unit. The Forest Officer may approve exceptions to these requirements in writing.

1. The Purchaser shall lay out skid trails and have locations approved by the Forest Officer prior to felling trees.
2. All skid trails will be located within the harvest unit boundaries.
3. Any constructed skid trails shall be completed and approved by the Forest Officer prior to felling timber.
4. Skid trails will not be located in draws and may only cross draws at locations flagged and approved by the Forest Officer.
5. Existing skid trails and landings would be used to the extent possible to limit new soil disturbance.
6. Skid trails will be spaced 75 to 100 feet apart to minimize soil disturbance of the harvest footprint.
7. Skyline Specifications and Requirements: A yarding system capable of yarding up to 200 feet external yarding distance uphill must be used. Lateral yarding capability of 75 feet minimum distance is required.
 - a. Skyline corridors shall be spaced not less than 75 feet apart unless approved by the Forest Officer. In the case of ridges where fan-shaped settings are required, the minimum distance at the widest divergence will be 150 feet.
 - b. The location of all skyline corridors shall be approved by the Forest Officer in advance of any felling operations.
 - c. Purchaser will be required to locate the following prior to approval by the Forest Officer:
 - all corridors after determining adequate deflection (minimum 5%)
 - tail trees or tail holds
 - intermediate support trees

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- guyline anchors
- blind leads
- decking areas

d. Clearing width for corridors must be kept to the absolute minimum necessary to accommodate yarding.

e. Except for lateral yarding, logs shall be yarded with one end suspended or fully suspended.

g. High tail trees required: Tail trees or lift trees suitable to obtain adequate deflection may be required.

h. When rigging is attached to trees not designated for cutting, tree plates or similar effective protective devices are required and will be removed at completion of use.

i. Mobile tailholds or mobile guyline anchors are restricted to areas where it is not necessary to build constructed trails for equipment access unless agreed upon in writing by the Forest Officer.

j. In the event that special problems outside the scope of the skyline logging specifications are identified by either party, the Purchaser and the Forest Officer will mutually agree upon the solution.

8. Tethered Operations Specifications:

a. Harvest activities must be mitigated by operating with machinery under constant tension.

b. Ground-based operations with slopes exceeding 35%, or short pitches (100') of 35-45% must be tethered. *See Section VII.L.*

c. Operations for tethered machinery will not exceed 70% slopes.

d. Equipment shall avoid traveling cross-slope, minimize turning and primarily move up and down with the slope gradient to prevent unacceptable ground disturbance.

e. Tethered falling and yarding corridors on steep slopes would be spaced a minimum of 75 feet apart, with exceptions for logging system limitations requiring a closer spacing

J. LANDINGS AND LOG DECKS:

1. The Purchaser shall construct landings at locations approved by the Forest Officer prior to felling timber. Existing landings will be re-used to the extent possible.
2. Landings shall be kept to the minimum size necessary to allow the safe handling of logs. The Forest Officer must approve landing size.
3. All deck locations shall be approved by the Forest Officer prior to clearing or use. Decks shall be located so as to minimize the number of trees cut for construction of the deck area.

K. FELLING:

1. In each harvest unit, a felling pattern shall be used which conforms to the logging operations plan and causes the least damage to reserve trees and other resources.
2. Felling shall be systematic and continuous to avoid lost logs and minimize the number of skidding trips.
3. Trees shall be directionally felled away from features requiring protection within or adjacent to harvest units. Features requiring protection include streams, meadows, wet areas, and areas

specified under Section VII.F. UNIT DESIGNATIONS. Wedges, jacks, winches, or other special equipment may be required to direct trees when felling. Trees falling into protection areas shall be winch-line skidded out of protected features. All necessary mitigation for damage caused by improper and/or non-approved felling into a protected zone is the responsibility of the Purchaser. The Forest Officer must approve all mitigation work.

4. Traffic Control Required for Felling along Roads: If felling operations occur along public roads, traffic guards with "STOP" signs shall be posted 500 feet in both directions from the units on open roads, providing a safety zone to warn oncoming traffic that logging operations are in progress. All traffic shall be stopped when tree felling is in progress. Traffic stops should not exceed 15 minutes at any one time. All saws will be shut off when traffic is moving through the safety zone. Wedges and/or jacks shall be used to ensure trees do not fall onto the roadway. In the event a tree falls across the roadway, all debris shall be removed immediately from the roadway and right-of-way. The Forest Officer must approve any extended road closures for logging operations.
5. TREATMENT OF STUMPS: Purchaser shall treat the stumps of **LIVE PONDEROSA PINE** trees cut by Purchaser that have a stump diameter larger than 12 inches. Treatment should be done as soon after tree felling as practical, preferably within one (1) or two (2) hours, but no later than 24 hours for powder application. Treatment shall consist of removing sawdust and other loose debris from the cut surface of the stump including exposed wood surfaces on all sides and application of **borate** product according to the following instructions:

Apply enough borate to lightly cover stump surface including exposed wood surfaces on all sides (approximately one (1) pound borate per 50 square feet of exposed wood surface). Apply the material to all exposed wood surfaces. Stumps should be level and have no splinters for most effective use. Best method of application is to sprinkle the material saltshaker style on the freshly cut stump surface. Care should be used during application to minimize off-site application of this material. A blue powder dye shall be added to the borate as an aid to ensure complete coverage.

Purchaser shall only use material registered by the Environmental Protection Agency (EPA) for Heterobasidion root disease (aka annosus root disease) control and follow all applicable label instructions.

- L. YARDING AND MECHANICAL FELLING:** The Purchaser must follow these requirements during logging operations, along with those shown under Section VII.G. SPECIAL OPERATING REQUIREMENTS. The Forest Officer will determine when restrictive conditions apply and may approve exceptions to these requirements in writing.

1. Slope Restrictions: All ground-based harvest will be limited to slopes of 35% or less unless otherwise specified. Site specific reviews are required to exceed this guidance. If approved, harvest activities must be mitigated by operating with machinery under constant tension, working on a slash mat, or a combination of both.
 - a. Harvest operations for ground-based machinery may be allowed on short pitches of 35-45% slopes less than 100' at the discretion of the Forest Officer
 - b. Harvest operations for untethered ground-based machinery will not exceed 45%
 - c. Harvest operations for tethered ground-based machinery will not exceed 70%
2. Soil Compaction Restrictions: In order to prevent soil resource impacts, ground-based mechanical felling and yarding are restricted to periods when one or more of the following conditions occur:

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- a. Sufficiently dry operating conditions exist when the top six inches of mineral soil does not form a soft ball when squeezed in the palm of the hand and free water is not on the surface of the sample when squeezed or shaken. Soil moisture content at 4-inch depth less than 20% oven-dry weight.
- b. Frozen ground: minimum frost depth of 4 inches.
- c. Minimum snow depth of 18 inches, loose, or 12 inches, packed. Because depth of snow necessary to protect forest floor varies with snow density, less than 18 inches of snow will be approved by the timber sale administrator under favorable winter conditions.
3. Suspended Operations for Soil Compaction and Displacement: **The** Purchaser will be required to restrict or suspend logging operations when soils are subject to compaction or displacement by heavy equipment.
4. Equipment Restrictions:
 - a. Equipment shall not be operated in areas designated as EQUIPMENT RESTRICTION ZONES, WETLAND MANAGEMENT ZONES or STREAMSIDE MANAGEMENT ZONES as shown in Section VII.D.6 and 7, unless authorized by this Contract or the Forest Officer.
 - b. Equipment shall not be operated in soft soils, boggy areas or areas where skidding, yarding or felling would cause excessive compaction and displacement. If seasonally moist areas are present at time of harvest, a buffer will be applied around wet areas.
 - c. Any trees designated for harvest within such zones shall be winchline skidded to skid trails outside the zone.
 - d. Do not track mechanical equipment or skid trees up or down draws/swales.
 - e. Slash will not be piled in or pushed into these zones.
 - f. The Forest Officer must approve any designated crossings of restricted areas.
5. Protection of Reserved Trees: The Purchaser shall exercise reasonable care to prevent damage to trees reserved from cutting during logging operations.

M. CLEAN-UP AND COMPLETION: The Purchaser must follow these requirements and those shown under Section VII.G. SPECIAL OPERATING REQUIREMENTS during logging operations. The Forest Officer will determine when restrictive conditions apply, specifications and dates to meet these requirements and may approve exceptions in writing. The Forest Officer must approve all designated work prior to the removal of Purchaser's equipment.

1. Slashing: The Purchaser shall fell all sub-merchantable trees with logging-related root or stem damage, causing lean. The stem shall be completely severed from the stump below the lowest live limb. Maximum stump height shall be 12 inches on the uphill side.
2. Logging Debris Confined to Units: All debris from logging shall be confined within the harvest unit boundaries. Any logging debris outside a harvest unit must be returned to within the unit boundary.
3. Purchaser Logging Required: Purchaser shall buck and de-limb all logging slash as required to reduce main stems to within 12 inches of the ground from bottom side and reduce total slash depth, including branches, to within 18 inches of the ground.
4. Logging Slash Distribution: If the Purchaser uses a harvest system that produces heavy in-woods slash levels, the Forest Officer may require scattering and/or unit piling of slash. Unit piles will be

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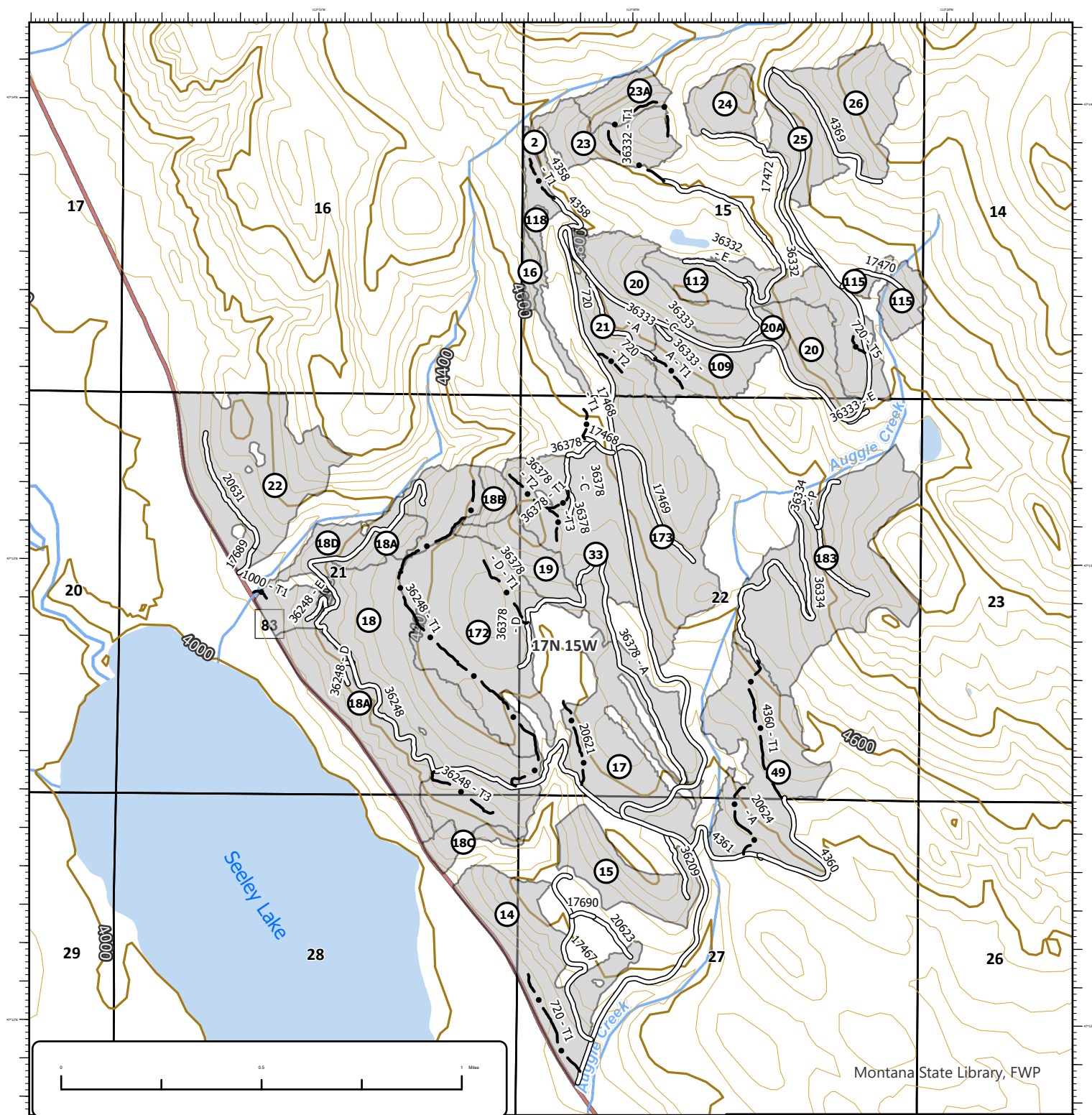
at least 8 feet tall and will be piled in a way as to promote burning (higher, NOT wider). The piles will be placed at least 30 feet away from residual trees.

5. Skidding Debris on Roads: The Purchaser shall remove logging slash remaining on any portion of a road cutbank or traveled way. Cut and fill slopes, ditches, or road surfaces damaged by skidding operations shall be restored to original conditions. Reseeding is required if vegetation is damaged by skidding.
6. Repair of Improvements: Damage caused by the Purchaser's operations to culverts, waterlines, fences, roads, bridges, gates, cattleguards, signs, and all other improvements must be adequately repaired or replaced.
7. Erosion Control:
 - a. The Purchaser shall construct slash and debris erosion barriers, dips, water bars or ditches in skid trails and landings as directed by the Forest Officer.
 - b. The kinds and frequency of erosion control structures shall be adjusted to soil types, topography and climatic conditions as directed by the Forest Officer.
 - c. The Purchaser is required to recontour any excavated skid trails and provide for effective erosion control in the trail location as directed by the Forest Officer.
 - d. Erosion control work shall commence as soon as skidding is completed on each skid trail or landing and must be kept current with unit operations.
 - e. Erosion control work shall be completed and approved by the Forest Officer in unfinished units before operations cease for inactive periods including heavy winter snowfall, spring breakup and restricted dates.
 - f. Following harvest, disturbed sites will be scattered with slash and coarse woody debris <6 inches in diameter to a depth of 3-6 inches to reduce erosion risk and facilitate organic matter recovery. Slash will cover approximately 65-70 percent of the skid trail or corridor. This will occur to offset detrimental soil disturbance and ensure activity in units meets the soil regulatory framework.
 - g. The Purchaser shall maintain erosion control structures in active sale areas throughout the contract period or extensions thereof.
 - h. All erosion control work in each unit shall be completed prior to notification pursuant to Section VII.M.7. Acceptance of Completed Harvest Units.
8. Landing and Decking Area Cleanup: The Purchaser is required to pile logging residues on landings and log-decking areas. Proper equipment (e.g. brush blade, log loader) shall be used to ensure that no dirt is incorporated into the piles. Where logs have been decked on the downhill or fill side of a road, the Purchaser may be required to pile residue with a log loader or by hand.

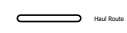
Piles shall be located at least 25 feet from residual timber. Piles shall range from 10 to 25 feet in diameter and 8 to 20 feet in height. All objects which extend more than 10 feet in any direction from the pile profile will be cut off and returned to the pile. Piles shall be located and constructed as directed by the Forest Officer.

Landing rehabilitation (erosion control) will occur on dry soils and will be completed as follows: Landing site preparation (scarification) to a depth of 4-6 inches will occur. Slash material will be placed throughout site 3-6 inches thick. Site will be seeded using appropriate Lolo National Forest native grass mix. In highly accessible areas along open roads, barriers will be placed to block motorized access into landings

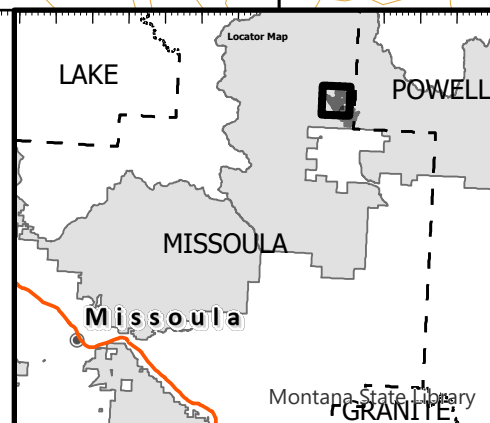
9. Systematic Harvest Unit Operations: When harvest operations are begun on a designated harvest unit, the harvest operations on that unit shall be fully completed before cutting may begin on other harvest units.
 10. Re-seeding: The purchaser shall apply seed to skid trails, landings, obliterated roads and other areas disturbed by logging as directed by Forest Officer. Appropriate seed mix specified per ATTACHMENT B, Table B-2 and Grass Seeding Specifications section IX.C.
 11. Temporary Road Decommissioning: Level of temp road and trail decommissioning will depend on existing condition of the site prior to road or trail construction and will be decommissioned following site-appropriate combinations of the following:
 - a. Topsoil and slash will be stored along the temporary road to the greatest extent possible and pulled back over the road surface during decommissioning.
 - b. The temporary road surface will have site preparation to a depth of at least 6 inches. Site preparation may include recontouring, de-compaction, and/or scarification.
 - c. Site will be seeded using appropriate Lolo NF native grass mix with seeding occurring prior to slash treatment.
 - d. By purchaser agreement, in lieu of water-bars, slash of mixed sizes (at least 50% less than 6 inches in diameter) will be placed over roads. Slash will cover approximately 65 -70% of the road to a depth of approximately 2-3 inches (approximately 10-15 tons/acre)
 - e. Roads to be physically decommissioned or stored including temporary roads constructed for harvest operations will be sprayed with at least one herbicide treatment before closure.
 12. Acceptance of Completed Harvest Units: The Forest Officer shall notify the Purchaser in writing when all contract requirements for each specified harvest unit or area have been met. After notice has been received, the Purchaser is not required to do additional work on the specified area except as provided in Section VII.A.4. FIRE KILL, INSECT INFESTATION, AND WIND THROWN.
- N. HAULING RESTRICTIONS:** The Purchaser will be required to restrict or suspend hauling during periods when the compacted road surface would be damaged, as directed by the Forest Officer. Restrictions are required when hauling would cause rutting into the subgrade, or surfacing materials would be displaced, such as during heavy rainfall or spring breakup freezing and thawing cycles.
- O. LOGGING OPERATIONS SAFETY SIGNS:** Road signs warning of logging and road construction operations shall be posted 500 feet from the operations. When log hauling is in progress, warning signs shall be posted at major road junctions as directed by the Forest Officer. Warning signs must comply with specifications in the Manual on Uniform Traffic Control Devices.



**GNA Rice Timber Sale
Lolo National Forest
Seeley Lake Ranger District
Highway 83 North Project Area**



		Unit Table					Route Table					Final Condition
Unit #	Acres	Est Tons	Est MBF	Yarding	Harvest Reg	Restrictions (see Comment)	Radius (Length/ft)	Acres Type	Plannability Type	Final Condition		
2	2	53	8	Ground-Level	Intermediate	100-15.2	74-1007-1	0.4	Hard Route	Homelessness	NSRF - Hazards	
							74-1007-2	0.5	Hard Route	Homelessness	NSRF - Hazards	
							74-1007-3	0.5	Hard Route	Homelessness	NSRF - Hazards	
14	52	1907	270	CTL	Region	Soils	74-1008-1	0.4	Hard Route	Homelessness	NSRF - Hazards	
15	30	1083	153	CTL	Region	Soils	74-1008-2	0.4	Hard Route	Homelessness	NSRF - Hazards	
16	30	282	37	CTL	Region	Soils	74-1008-3	0.4	Hard Route	Homelessness	NSRF - Hazards	
18	64	1647	233	CTL	Region	-	74-1008-4	0.3	Hard Route	Homelessness	Intermediate	
18	63.7	118	699	WF or CTL	Region	-	74-1008-5	0.4	Hard Route	Homelessness	Intermediate	
18	18	875	124	WF or CTL	Region	-	74-1008-6	0.4	Hard Route	Homelessness	NSRF - Hazards	
24	54	2045	290	CTL	Region	-	74-1008-7	0.3	New Temp Road	Construction	Oldlands	
24	72	1396	188	WF or CTL	Region	-	74-1008-8	0.4	Hard Route	Homelessness	Intermediate	
24	72	3172	449	CTL	Intermediate	-	74-1008-9	0.5	New Temp Road	Construction	Oldlands	
24	72	3172	449	CTL	Intermediate	-	74-1008-10	0.5	New Temp Road	Construction	Oldlands	
25	25	786	111	CTL	Region	-	74-1009-1	0.4	New Temp Road	Construction	Oldlands	
25	14	525	74	WF or CTL	Region	-	74-1009-2	0.4	Hard Route	Homelessness	Intermediate	
25	23	988	141	CTL	Region	-	74-1009-3	0.3	Hard Route	Recreation/Recreation/Recreation	NSRF - Soils	
25	24	807	209	CTL	Region	Optimizing Route	74-1009-4	0.4	Hard Route	Recreation/Recreation/Recreation	NSRF - Soils	
25	55	1819	258	WF or CTL	Intermediate	-	74-1009-5	1.0	New Temp Road	Construction	Oldlands	
49	65	2202	312	WF or CTL	Region	-	74-1009-6	0.5	Hard Route	Recreation/Recreation/Recreation	Intermediate	
102	106	406	56	WF	YFMT	-	74-1009-7	0.5	Hard Route	Recreation/Recreation/Recreation	Intermediate	
112	44	867	123	WF or CTL	YFMT	-	74-1009-8	0.4	Hard Route	Recreation/Recreation/Recreation	NSRF - Hazards	
115	13	250	35	WF or CTL	YFMT	-	74-1009-9	0.5	Hard Route	Recreation/Recreation/Recreation	NSRF - Hazards	
128	31	220	31	WF or CTL	YFMT	-	74-1009-10	0.5	Hard Route	Recreation/Recreation/Recreation	NSRF - Hazards	
132	81	1579	224	WF or CTL	YFMT	-	74-1009-11	0.5	Hard Route	Recreation/Recreation/Recreation	NSRF - Hazards	
188	190	74	64	WF or CTL	YFMT	-	74-1009-12	0.4	Hard Route	Recreation/Recreation/Recreation	NSRF - Hazards	
183	91	1060	150	WF or CTL	YFMT	-	74-1009-13	0.5	Hard Route	Recreation/Recreation/Recreation	NSRF - Hazards	
184	46	1955	277	Excavate	Intermediate	Optimizing Route	74-1009-14	0.5	Hard Route	Recreation/Recreation/Recreation	Intermediate	
188	114	200	27	Ground-Level	Intermediate	-	74-1009-15	0.5	Hard Route	Recreation/Recreation/Recreation	Intermediate	
188	8	487	69	Ground-Level	Intermediate	-	74-1009-16	0.1	New Temp Road	Construction	Oldlands	
188	24	830	132	CTL	Intermediate	-	74-1009-17	0.4	Hard Route	Recreation/Recreation/Recreation	Intermediate	
204	3	113	16	Ground-Level	Region	-	74-1009-18	0.5	Hard Route	Recreation/Recreation/Recreation	NSRF - Hazards	
234	13	401	57	Cable	Region	-	74-1009-19	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-20	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-21	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-22	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-23	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-24	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-25	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-26	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-27	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-28	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-29	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-30	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-31	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-32	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-33	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-34	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-35	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-36	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-37	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-38	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-39	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-40	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-41	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-42	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-43	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-44	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-45	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-46	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-47	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-48	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-49	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-50	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-51	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-52	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-53	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-54	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-55	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-56	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-57	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-58	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-59	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-60	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-61	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-62	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-63	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-64	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-65	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-66	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-67	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-68	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-69	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-70	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-71	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-72	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-73	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-74	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-75	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-76	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-77	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-78	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-79	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-80	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-81	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-82	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-83	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-84	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-85	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-86	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-87	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-88	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-89	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-90	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-91	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-92	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-93	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-94	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-95	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-96	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-97	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-98	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-99	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-100	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-101	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-102	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-103	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-104	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-105	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-106	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-107	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-108	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-109	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-110	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-111	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-112	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-113	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57	Cable	Region	-	74-1009-114	0.27	New Temp Road	Construction	Oldlands	
234	13	401	57									



ATTACHMENT B

ROAD MAINTENANCE, RECONSTRUCTION & TEMPORARY ROAD CONSTRUCTION SPECIFICATIONS	
SALE NAME GNA Rice	SALE NUMBER

I. CONSTRUCTION REQUIREMENTS

- A. ROADS:** The Purchaser is required to construct temp roads and improve and maintain the existing roads shown in Table B-1 per the schedules stated, as shown on the Sale Map, Attachment A-1 Haul Route Map, and to the specifications and drawings in Attachment B and other applicable attachments.

Road Name or Number	Approximate Length (Miles/Feet)	Type of Work	Operation Conditions	Completion Date or Requirement
FR 720	4.60 mi.	Maintenance	Dry, Non-Frozen soil conditions	Prior to harvest of respective units
FR 17467	0.54 mi.			
FR 17690	0.06 mi.			
FR 20623	0.14 mi.			
FR 4361	0.30 mi.			
FR 4360	0.42 mi.			
FR 36248	0.60 mi.			
FR 17468	0.08 mi.			
FR 17469	0.38 mi.			
FR 4358	0.13 mi.			
FR 17470	0.22 mi.			
FR 4369	0.44 mi.			
FR 17689	0.08 mi.			
FR 20621	1,230 Ft.			

FR 720-T1	1,500 Ft.	Construction / Reconstruction / Reconditioning / Decommission / Recontouring	Dry soil conditions	Prior to harvest of respective units
FR 720-T2	420 Ft.			
FR 720-T5	300 Ft.			
FR 20624-A	1,170 Ft.			
FR 4360-T1	2,090 Ft.			
FR 36334	4,920 Ft.			
FR 36334-P	1,000 Ft			
FR 36209	940 Ft.			
FR 36248	7,180 Ft.			
FR 36248-T1	5,590 Ft.			
FR 36248-T3	1,030 Ft.			
FR 36248-D	400 Ft.			
FR 36248-E	540 Ft.			
FR 36378-D-T1	1,090 Ft.			
FR 36378-A	4,160 Ft.			
FR 36378-D	1,790			
FR 36378	400 Ft.			
FR 36378-C	840 Ft.			
FR 36378-T1	360 Ft.			

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FR 36378-T2	730 Ft.	Construction / Reconstruction / Reconditioning / Decommission / Recontouring	Dry soil conditions	Prior to harvest of respective units
FR 36378-T3	520 Ft.			
FR 17468-T1	400 Ft.			
FR 4358-T1	700 Ft.			
FR 36333-A	1,550 Ft.			
FR 36333-A-T1	580 Ft.			
FR 36333-C	280 Ft.			
FR 36333-E	300 Ft.			
FR 36332	4,060 Ft.			
FR 36332-T1	1,930 Ft.			
FR 36332-E	900 Ft.			
FR 17472	2,960 Ft.			
FR 20631	1,760 Ft.			
FR 1000-T1	230 Ft.			

B. ROAD CONSTRUCTION MATERIALS ESTIMATE:**TABLE B-2: MATERIALS FURNISHED AND INSTALLED BY THE PURCHASER**

The Purchaser is required to furnish the described material and install as required in Attachment B. Quantities are estimated, and the Attachment B requirements and specifications must be met regardless of the estimated amounts. All materials furnished by the Purchaser become the property of the State when installed. If, due to a minor design change, material is not installed, the material will be delivered to the nearest DNRC Unit Office and become property of the State upon delivery.

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Corrugated Metal Pipe				Other Materials	
No.	Diameter	Length	Gauge	Amount	Description
1	18"	32 Ft.	16	1	CMP band
FR 720 (Rice Ridge Rd): Sta.1.70. Ditch relief pipe replacement.					
Corrugated Metal Pipe				Other Materials	
No.	Diameter	Length	Gauge	Amount	Description
2	24"	44 Ft.	16	3	CMP band
FR 36248: Sta.0.30; Permanent intermittent stream crossing. See SPA 124 Permit for installation instructions.					
Corrugated Metal Pipe				Other Materials	
No.	Diameter	Length	Gauge	Amount	Description
3	18"	24 Ft.	16	1	CMP band
FR 36248: Sta.0.35. Permanent ephemeral draw crossing.					
Corrugated Metal Pipe				Other Materials	
No.	Diameter	Length	Gauge	Amount	Description
4	18"	40 Ft.	16	1	CMP band
FR 36333-A: Sta.15+00. Ditch relief pipe on system road.					
Corrugated Metal Pipe				Other Materials	
No.	Diameter	Length	Gauge	Amount	Description
5	18"	36 Ft.	16	1	CMP band
FR 36332: Sta.18+50. Permanent ephemeral draw crossing.					
Corrugated Metal Pipe				Other Materials	
No.	Diameter	Length	Gauge	Amount	Description
6	24"	48 Ft.	16	2	CMP band
FR 36332: Sta.29+50. Permanent intermittent stream crossing.					
Corrugated Metal Pipe				Other Materials	
No.	Diameter	Length	Gauge	Amount	Description
7	18"	20 Ft.	16		DNRC to supply CMP; Purchaser to pick up and deliver to site. Stored in Unit 49.
FR 36378-D: Sta. 9+60. Permanent ephemeral draw crossing.					

Rock & Fill Material		
Cubic Yards	Type	Delivery Location
110	On-site pit-run fill material for culvert install. Borrow site located at FR 36248-T1; 0+00	FR 36248; Sta. 0.30
20	2" crushed rock	FR 36378-T1
60	1" crushed rock	FR 36248; Sta. 0.12

TABLE B-2 (CONTINUED): SEED AND FERTILIZER REQUIREMENTS

Certified Noxious Weed-Free Seed		Fertilizer	
Pounds	Description	Pounds	Analysis (N-P-K)
873	Lolo NF Aesthetic (A) Mix (dips, temp rds, landings, gated rds, skid/forwarder trails, CMP install, fill material).	N/A	N/A

TABLE B-2 (Continued): MATERIALS FURNISHED BY THE STATE:

The Purchaser is required to load and haul the described materials from the State source and install them as required in Attachment B.	
Amount	Description
4x	Gate for Installation on: FR36378, FR3678-A, FR36333-A, FR36209
1x	20' x 18" CMP for installation on FR36378-D

- C. Detail locations:** The Forest Officer will identify all features and locations, design or specifications of road construction, improvement or maintenance requirements. The Purchaser will complete these items on a per unit basis.

II. RIGHT-OF-WAY CLEARING

- A. CLEAR LIMIT DEFINITIONS** are shown in Section IX. SPECIFICATIONS AND DRAWINGS.

- B. CLEAR LIMIT MARKING:** N/A

- Clear limits for existing and temporary roads are NOT marked.

- C. CLEARING REQUIREMENTS:**

1. Brush or trees on existing roads may be removed by sawing individual stems, cutting with a rotary brush cutter, uprooting with an excavator or other methods approved by the Forest Officer.
2. Inside the clearing limits, but outside the road prism, trees and brush less than 20 feet tall and less than 3 inches in diameter that do not interfere with visibility or slope stability may be left as directed by the Forest Officer.
3. All merchantable timber within the clear limits on all roads to be constructed under the terms of this Contract shall be cut to the specifications in the timber sale contract and skidded to decks, or decked with an excavator, prior to earth moving.
4. Clearing procedures shall protect residual stands, prevent incorporation of construction slash into the road prism, and protect roadside appearance outside clear limits.
5. Grubbing will be limited to only those stumps and large roots within the road prism.

III. TREATMENT OF RIGHT-OF-WAY CLEARING MATERIALS

A. GENERAL TREATMENT REQUIREMENTS:

1. Road construction slash more than 3 inches in diameter and 6 feet long and all concentrations of slash which would adversely affect the stability of the road shall be disposed of by the methods described in this section.
2. Slash and debris shall not be placed in drainages, roadside ditches or heads of culverts where the flow of water may be obstructed and shall be removed if placed therein.
3. Lopping and scattering is defined as delimbing and sawing slash materials into lengths which will easily scatter to a maximum depth of 18 inches. Materials shall be scattered outside the road prism.

B. SIDESLOPES OF 35% OR LESS AND EXISTING ROADS:

1. Disposal will be by hand or machine piling for burning as directed by the Forest Officer.
2. Minor concentrations of slash or individual trees may be disposed of outside of the road prism by lopping and scattering as directed by the Forest Officer.
3. Tree stumps, large boulders and cull logs may be scattered outside the road right-of-way clear limits if approved in writing by the Forest Officer. Scattered stumps and boulders shall be placed away from trees and positioned so they will not roll.

C. SIDESLOPES OF 35% AND GREATER:

1. Treatment will be by excavator only, or by whole tree skidding to a decking area.
2. Where topography and timber types permit, piling for burning will be required as directed by the Forest Officer.
3. Where piling is not practical, treatment will be by windrowing at the toe of the fill. Slash will be windrowed on a trail constructed at the bottom of the right-of-way. Slash will be trampled and covered with organic surface material taken from the road prism as directed by the Forest Officer. Fill material may butt up against but not cover or bury the windrow.
4. Minor concentrations of slash or individual trees may be disposed of by lopping and scattering as

directed by the Forest Officer.

5. Tree stumps, large boulders and cull logs may be scattered outside the road right-of-way clear limits if approved in writing by the Forest Officer. Scattered stumps and boulders shall be placed away from trees and positioned so they will not roll.

IV. EXCAVATION AND EMBANKMENT OF FILL MATERIALS

A. EXCAVATION OF ROAD CROSS SECTION:

1. All grubbing and clearing shall be completed prior to the beginning of any excavation.
2. Surface organic layer and ash cap (surface reddish-brown soils with low gravel content) will be bladed to the side of the road and not incorporated into fills.
3. Wasted soils and organic layer will be shaped and spread to natural contours at locations approved by the Forest Officer.
4. When excavating on tangents and when balanced section construction is indicated, the following table will be used as a guideline to determine if sufficient excavation of road solid has occurred. Tolerances for road solid will be +1.0 feet and -0.5 feet.

TABLE B-3: EXCAVATION OF ROAD SOLID			
SIDESLOPE PERCENT	ROAD WIDTH		
	12 FT.	14 FT.	16 FT.
	FEET OF ROAD SOLID		
5	8.7	10.1	11.4
10	8.8	10.2	11.5
15	8.9	10.2	11.6
20	8.3	9.5	10.8
25	7.8	8.9	10.1
30	7.6	8.9	10.1
35	7.8	9.0	10.2
40	8.1	9.2	10.6
45	8.5	9.4	11.0
50	8.8	9.8	11.6
55	9.4	10.2	12.2
60	10.1	11.7	13.3
65 & over	12.0	14.0	16.0

B. EMBANKMENT OF FILL MATERIALS:

1. Fill materials shall be unfrozen and free of snow and ice.
2. Fill materials shall be sorted to remove large rocks over 6 inches in diameter near the surface, which may interfere with surface blading.
3. Where possible all fill materials shall be applied in layers not to exceed 18 inches and each layer compacted with heavy equipment prior to application of the next layer.
4. If fill materials are too dry to allow compaction, the Forest Officer may require watering of layers followed by heavy equipment compaction.

5. Gravel used for surfacing shall be compacted into place using loaded dump trucks or a vibratory drum roller if specified in the Road Log.

C. PIT DEVELOPMENT AND RECLAMATION:

1. While the gravel pit or borrow area is open the surface of the pit shall be kept clean of noxious weeds. The Purchaser shall remove any weeds found growing at the pit by pulling, cultivating, covering with plastic, spraying, or other methods as directed by the Forest Officer.
2. At completion of use, the pit area will be reshaped to as near natural contours as possible. Backslope ratios shall not exceed 3:1. The Contractor may be required to save topsoil, recontour the pit wall, and reclaim the disturbed portion of pit. All disturbed portions of the pit shall be grass seeded and fertilized.
3. At completion of use, talus slopes shall be backsloped and reshaped as directed by the Forest Officer. Grass seeding and fertilizing are required on any disturbed areas with exposed soil.

V. DRAINAGE STRUCTURES

A. CORRUGATED METAL PIPE: The corrugated metal pipe required in Table B-2 will be installed as follows:

1. All pipes shall be installed with a backhoe or excavator. The exact locations shall be determined and approved by the Forest Officer after the right-of-way is brushed and cleared.
2. The excavation trench for culvert installation shall not be wider than necessary to permit satisfactory jointing and thorough tamping of the bedding material under and around the pipe.
3. The bedding surface shall be constructed to provide a firm foundation of uniform density through the entire length of the culvert and shall be slightly cambered along the centerline to correct for expected settlement.
4. Where the bedding surface is not firm at the grade established, all unstable soil under the pipe and for a width of at least one diameter on each side of the pipe shall be removed and replaced with suitable selected material. Rock encountered in the bedding foundation will be removed to at least 12 inches below the bottom of the pipe and one diameter on each side. The final bedding area shall consist of fine, compacted granular material.
5. Selected material shall be placed alongside the pipe for backfill in alternating layers not exceeding six inches in depth and thoroughly compacted by a hand held mechanical tamper (wacker packer). Special care must be taken to compact the fill thoroughly under the haunches of the pipe. Wacker packer compaction of backfill must be done for a horizontal distance on each side of the pipe equal to either one pipe diameter or to the outside limits of the trench, whichever is less. The depth of wacker packer compaction must extend at least to the top of the pipe.
6. Selected native fill material will be free from rocks and hard earth clods larger than 3 inches in size. Frozen material, sod or a high percentage of organic matter is not permitted.
7. The remainder of the fill above the top of the pipe may be compacted by tractor or rubber-tired roller. Fill is to extend above each pipe at least one-half the pipe diameter or a minimum of 12 inches, whichever is greater.
8. The pipe shall be protected by adequate fill cover before heavy equipment is permitted to cross during roadway construction.

9. Pipe that is damaged or improperly installed shall be repaired or replaced at the Purchaser's expense as directed by the Forest Officer.
10. The Forest Officer must be contacted two days before any culvert installation and must be present at any wet site culvert installation.
11. Riprap consisting of angular native rock of graded sizes 6 to 12 inches in diameter shall be installed to armor cuts and fills at both ends of all culverts installed in streams.
12. Energy dissipators consisting of native rock at least 24 inches in diameter with flat cross section shall be installed below culvert outlets in all perennial streams.

B. WET SITE CULVERT INSTALLATION REQUIREMENTS:

1. The Forest Officer and the Purchaser shall agree upon a site-specific sediment and erosion control plan that meets the requirements of all attachments and permits for each wet installation prior to any construction. Sediment and erosion control features may include any or all of the following at each site:
 - a. Filter Fabric Sediment Traps.
 - b. Sediment Control Fence.
 - c. Slash Filter Windrows.
 - d. Other measures as directed by Forest Officer.
2. The Forest Officer and the Purchaser shall agree upon a site-specific water diversion plan for each wet installation. Diversions may include: by-pass ditches, plastic lined by-pass ditches, plastic or metal pipe by-passes or other methods as directed by the Forest Officer. Pumping with discharge back into the channel is not permitted.
3. All wet site culvert installations require seeding of all disturbed areas with Quick Cover Mix the same day as installation is completed.
4. Any equipment operated within the high-water level of any stream or river channel shall be free of oil and fluid leaks and shall be clean of mud. Said equipment must be inspected by the Forest Officer and approved prior to any use.
5. Filter fabric sediment traps shall be installed prior to any construction activities on all wet culvert installations.
6. All required permits will be obtained for any activity that would disturb stream channels and/or wetlands.

VI. ROAD MAINTENANCE

A. ROAD MAINTENANCE SCHEDULE AND REQUIREMENTS:

1. Road maintenance may be required on all native material or gravel roads designated for hauling purposes.
2. Road maintenance is defined to include all operations listed under Section VI. of Attachment B.
3. Initial maintenance of the roads shall be completed prior to use for logging and hauling and when roads are not excessively wet.

4. Intermediate maintenance: The Forest Officer will determine the number, type, extent and frequency of intermediate maintenance operations.
 - a. BMPs will be inspected at the end of each operating season to assure their ability to protect water quality during spring snowmelt runoff season and will be maintained to ensure functionality.
 - b. Road maintenance shall be repeated and short-term actions implemented as needed, to reduce sediment from reaching streams.
 - c. Inspection and maintenance will occur following high rainfall events and prior to fall and spring runoff to ensure effectiveness.
 - d. Erosion control measures will remain in place and functional until disturbed sites (such as roads, culverts, landings, and burn piles) are stabilized, typically for at least one growing season after ground-disturbing activities.
 - e. The Purchaser will be advised of the time limitations to complete each maintenance project.
5. Final maintenance of the road system is required to ensure functionality of BMPs and repair road damage after all logging and hauling and prior to termination of the Timber Sale Contract.
6. All road maintenance activities shall occur during dry weather periods or as approved by the Forest Officer. This includes, but is not limited to surface blading, herbicide application, dust abatement, culvert installation, ditch cleaning and drain dip construction. Additional BMP actions will be implemented on an as needed basis and include silt fences, straw bales, or other temporary effective measures to reduce sediment from reaching streams.

B. SURFACE BLADING:

1. Description: Surface blading is keeping a native or aggregate roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the crown or slope, shoulder, drainage dips, leadoff ditches, berms and turnouts, and provides a level of smoothness appropriate for the amount and kind of traffic served and consistent with existing surfacing.
2. Specifications:
 - a. The existing roadbeds, including turnouts, shall be bladed and shaped to reasonably conform to the designed cross section, and to eliminate ruts. Existing aggregate surfacing shall be bladed to conserve material and to prevent segregation of particle sizes. Rocks or other material remaining on the traveled way surface after final blading which are 4 inches or larger in size shall be removed from the road surface.
 - b. Roadside cutslopes should not be undercut when cleaning ditches or removing road sloughs. Berms shall be removed from road shoulders when blading, except where berms are located as part of road design.
 - c. Cutslopes that have been undercut may require backsloping, seeding and fertilizing.
 - d. At intersections, the roadbeds at side roads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.
 - e. Drainage dips and leadoff ditches shall be cleaned and graded to form their previous line and grade.

- f. Crowned roads should slope towards shoulders at least 2-5% (1/4-1/2 inch per foot road width) on native and gravel roads.
- g. At intersections where side roads enter the main road and the entering side road exceeds +3%, shallow ditching across the side road may be required to divert surface runoff and protect the main road's stability.
- h. The side-casting of road material into a stream, lake, wetland, or other body of water during road maintenance operations is prohibited in the SMZ.

C. DITCH CLEANING:

- 1. Description: Ditch cleaning is removing and disposing of all foreign and slough material from roadside ditches to provide an unobstructed waterway conforming reasonably to previous line, grade and cross section.
- 2. Specifications:
 - a. Slough material removed from the ditch may be blended into existing native road surface or shoulder only if it is the same material as the road surface. Slough material that is not suitable for blending should be disposed of as directed by the Forest Officer.
 - b. Live vegetation and other organic material shall be removed and disposed of as directed by the Forest Officer.
 - c. Unstable stumps, rocks, leaning trees or other debris shall be removed from the cutslope as directed by the Forest Officer.

D. CULVERT MAINTENANCE:

- 1. Description: Maintenance is work performed on inlets, outlets, catch basins, related channels, existing riprap, trash racks and any other facilities related to the drainage structure.
- 2. Specifications: Catch basins, outlets and energy dissipaters shall be kept functioning and cleaned of debris. Ends of culverts shall be kept straight and undamaged. Any washing alongside or underneath the culvert shall be repaired.

E. ROADSIDE VEGETATION MAINTENANCE:

- 1. Description: Maintenance of roadside vegetation includes removal of brush, tree growth, deadfall or other obstructions to passage, safety or visibility, as such obstructions are present or develop during the contract period.
- 2. Specifications:
 - a. All trees that have fallen across the road shall be removed from the road prism unless otherwise agreed upon. Merchantable timber, if any, shall be cut in appropriate lengths and decked along the roadside in locations where traveled way width or sight distances will not be impaired.
 - b. Brush and seedling trees that encroach upon the original road clear limits shall be removed by mastication or mowing when they reduce safe sight distances. Low shrubs and brush that do not restrict sight distance but provide cover and reduce erosion shall not be removed. Brush and seedling trees removed shall be disposed of as directed by the Forest Officer.

- F. SNOWPLOWING:** If hauling occurs during the winter months, the Purchaser will be required to plow snow to the following guidelines on all State and private roads.

1. Snow should be windrowed beyond the fill shoulder line.
2. Snow plowing will maintain a minimum 2 inches of snow on the roadway to protect the road surface. All debris except snow and ice that is removed from the road surface and ditches shall be deposited away from stream channels at agreed locations.
3. Snow berms will not be left on the running surface of the road. Berms left on the shoulder of the road will be removed and/or drainage holes will be opened and maintained. Drainage holes will be spaced as need to obtain satisfactory surface drainage without discharge on erodible fills.
4. Ditches and culverts will be kept functional during and following road use. Culverts will be marked before snow, so they can be located and cleared of debris as needed to keep them functioning.
5. Tracked equipment will not be used to plow snow without prior written approval from the Forest Officer.
6. The side-casting of road material into a stream, lake, wetland, or other body of water during snow plowing operations is prohibited in the SMZ.

G. DUST ABATEMENT: N/A

H. NOXIOUS WEED TREATMENT – TECHNICAL SPRAYING SPECIFICATIONS LOLO NATIONAL FOREST

1. 48-hour notice required prior to spraying.
2. Spraying shall be done by a State of Montana licensed commercial applicator, and only by personnel under the direct supervision of the licensed applicator.
3. A blue water-based dye shall be used to further identify target species that have been sprayed.
4. The following herbicides, dye, and application rates are approved for use, and are the only authorized methods of weed treatment under this contract provision. All use of herbicides, dyes, and surfactants shall follow EPA label guidelines and other state and federal laws for storage, application, and disposal methods.

Common Name	Trade name(s)	Application Rate (lbs. active ingredient/acre or oz/acre)	Dye (application rate)
Aminopyralid	Milestone	7 oz/acre	.32 oz/gal H2O

5. For treatments from July 15 to September 15, surfactants that cause herbicide to adhere to the plant (stickers) shall be applied with herbicides.
6. Weed infestations within 50 feet of water can only be treated with **Aminopyralid** labeled for treatment of aquatics, unless otherwise approved in writing by Forest Officer. No spray shall come in contact with open water at any time. Herbicide applications near live water or in areas with shallow water tables will follow label directions.
7. No spraying shall occur when rain is expected within six hours of completion of the treatment.

8. Nozzles shall be made of stainless steel or ceramic material.
9. All equipment shall be in good mechanical condition and will be inspected prior to work. The spray pattern, application rates, and calibration shall also be checked before beginning the job and thereafter as deemed necessary by Forest Officer.
10. A tight-fitting lid on all spray tanks is mandatory.
11. Mixing, loading, and equipment cleaning shall be done more than 200 feet from private land or open water. Mixing and cleaning water shall come from public or cooperator supplies, and shall be transported to the site in labeled containers separate from water used for other purposes. On-site locations for water drafting must be approved in advance by the Forest Officer. Equipment used to draft water from creeks or rivers must be equipped with anti-back siphoning devices. Applicators will review stream and wetland areas to ensure that herbicides will not be applied to open water.
12. Weather conditions shall be monitored before and during all spraying projects. Spraying is NOT allowed when any of the following conditions exist:
 - a. Hand-held equipment: temperature greater than 95 degrees F; humidity less than 20 percent, or wind greater than 10 MPH.
 - b. Truck-mounted equipment: temperature greater than 95 degrees F; humidity less than 20 percent, or wind greater than 10 MPH.
13. Herbicides shall be transported daily to the project site with the following conditions: transport only the quantity needed for that day's work; transport concentrate containers only in a manner that will prevent spills; transport spray in a compartment that is isolated from food, clothing, and safety equipment.
14. Mixing shall only occur at the site.
15. The Purchaser shall inspect equipment daily for leaks.
16. The contractor shall remove all herbicide containers from National Forest land and dispose of them in accordance with all local, state, and federal requirements.
17. Applicators will complete a daily pesticide application report as required by the Montana Department of Agriculture. Applicators must provide GPS tracks of all sprayed areas. Daily application reports shall be submitted within 10 days of application.
18. Spraying shall occur as specified in Section IX.C at least 10 days prior to pre-haul maintenance.
19. The wilting, curling, discoloration or killing of target plants shall be used as a measure of application effectiveness and performance acceptability.
20. Herbicide applicators will be familiar with and carry an Herbicide Emergency Spill Plan to reduce the risk and potential severity of an accidental spill. Herbicide applicators will also carry spill containment equipment.
21. Herbicides will not be applied if snow or ice covers the target vegetation.
22. Low boom pressure (less than 40 pounds per square inch) will be used to reduce drift.
23. Drift reduction products will be used as needed near sensitive resources.
24. If commercial applicators are used for the application of restricted use pesticides, Forest Officer will check to make sure their Montana commercial restricted use pesticide license is current.

25. Signs are to be posted on roads and locations where herbicides are applied.

VII. ADDITIONAL REQUIREMENTS

A. TEMPORARY SPUR ROAD SPECIFICATIONS: Temporary spur roads are defined as any roads constructed by the Purchaser to access a harvest unit or landing which is not an existing road and may not be shown as a required road to be constructed in Table B-1. All temporary roads will be constructed to the following specifications:

1. Forest Officer shall approve the location prior to any construction.
2. Clearing and excavation shall be kept to the absolute minimum for safe truck hauling and to prevent erosion and water quality impacts. Some sidehill excavation, minor through cuts, ditching and turnpiking may be required.
3. Road construction will occur during dry weather periods unless otherwise agreed to with a watershed specialist (hydrologist or fisheries biologist).
4. Temporary culverts may be required at ditch crossings, wet areas or other locations as directed by the Forest Officer.
5. Temporary erosion control measures may be required to meet BMP standards on the road and/or the landing area while being used.
6. In-stream work to be completed between July 15th and September 1st unless approved by the Forest Officer.
7. At the completion of use the road shall be shaped back to natural contours, temporary culverts removed, erosion control measures installed, the disturbed areas grass seeded, and the access closed to all vehicular traffic. Where practical, retain an approximate 12-inch wide flat unobstructed surface. The Forest Officer may require scarification or ripping of compacted landings and temporary spur roads. See Contract Section VII.M.9 for complete list of requirements.
8. In highly accessible areas along open roads, lace barriers to block motorized access into landing areas.

B. GATES ON PRIVATE ROAD EASEMENTS: When using private road easements to access the timber sale area, any gate encountered on private land will be left as prescribed by the easement grantor.

C. SPECIAL OPERATING REQUIREMENTS:

1. Erosion control measures (i.e. weed-free straw bales, wattles, silt fences, hydro mulching, etc.) shall be installed where necessary and retained in place during and after ground-disturbing activities. To ensure effectiveness, erosion control measures would remain functional until disturbed sites (roads, culverts, landings, etc.) are stabilized; typically for a minimum period of one growing season after ground disturbing activity occurs. These types of erosion control measures will be at the direction of the Forest Officer.

D. TRAFFIC CONTROL AND WARNING SIGN SPECIFICATIONS:

1. The Purchaser shall furnish, erect, and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs, and other traffic control devices, and shall take all necessary precautions for the protection of the work and safety of the public. Suitable warning signs shall be provided to properly control and direct traffic as requested by the Forest Officer.

2. All road barricades, warning signs, lights, temporary signals, flagger and pilot car operations and equipment, and other protective devices, shall conform with the specifications in the Manual on Uniform Traffic Control Devices (MUTCD).

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VIII. ROAD LOG AND SITE DESCRIPTIONS

Notes:

*Centerline of temporary road construction is flagged with pink ribbon.

*Road Stations are flagged at the edge of the road prism with a combination of pink ribbon and blue/white polka dot ribbon. Station flagging corresponds with the Road Log. Defer to Road Log for detailed instructions.

Station	Work description	Materials or type of work	type or size	length or amount	Units
FR 720 (Rice Ridge Rd)					
	Road junctions with Hwy 83. FR 720 is part of the primary haul route servicing the timber sale. This is a shared road with the GNA Seeley timber sale for the first 0.75 mile.				
0.00	Begin road maintenance. Condition dependent routine blading prior to haul from Hwy 83 to junction with FR 4361 (Auggie-Morrell Cut-Off). Routine blading may be required prior to hauling.				
0.75	Jct. with FR 4361. End condition dependent routine blading.	blading		0.75	miles
	Begin initial full blading prior to hauling.				
	Begin pre-haul weed spraying.				
0.95	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet and catch basin	rock armor		2	each
	Ditch below outlet for 20 to 30 feet.	earthwork		30	feet
0.96	Clean inlet and outlet.	CMP Maint.		2	each
	Armor outlet.	rock armor		1	each
1.10	Clean outlet and improve outlet drainage.	CMP Maint.		1	each
1.11	CMP inlet and outlet. Improve outlet drainage.	CMP Maint.		2	each
	Clean inlet and outlet	CMP Maint.		2	each
1.20	Maintain slash filter at outlet	slash windrow		1	each
1.30	Construct drain dip.	drain dip	Type 1	1	each
	Install slash filter at dip outlet.	slash windrow		1	each
	Clean inlet and outlet.	CMP Maint.		2	each
	Armor outlet.	rock armor		1	each
1.50	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet and outlet.	rock armor		2	each
1.55	Clean inlet.	CMP Maint.		1	each
1.60	Clean inlet.	CMP Maint.		1	each
	Armor catch basin.	rock armor		1	each
1.70	Replace relief pipe with 18"x32ft metal CMP.	CMP	18"	1	each
	Armor inlet, outlet and catch basin.	rock armor		3	each
1.90	Clean inlet and outlet.	CMP Maint.		2	each
	Armor outlet.	rock armor		1	each
2.00	Clean inlet and outlet.	CMP Maint.		2	each
	Armor outlet.	rock armor		1	each
2.10	Clean inlet and outlet.	CMP Maint.		2	each
	Pull fill back from outlet and armor.	rock armor		1	each
2.12	Construct drain dip.	drain dip	Type 1	1	each

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2.17	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet and outlet.	rock armor		2	each
2.20	Clean inlet.	CMP Maint.		1	each
2.40	Clean inlet and outlet.	CMP Maint.		2	each
2.50	Clean inlet and outlet.	CMP Maint.		2	each
2.70	Clean outlet.	CMP Maint.		1	each
2.80	Clean catch basin and outlet.	CMP Maint.		2	each
2.90	Clean catch basin and outlet.	CMP Maint.		2	each
	Armor inlet.	rock armor		1	each
3.00	Clean inlet and outlet.	CMP Maint.		2	each
3.40	Clean inlet and outlet.	CMP Maint.		2	each
3.45	Clean inlet, outlet and catch basin.	CMP Maint.		2	each
	Armor inlet and outlet.	rock armor		2	each
3.60	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet, outlet and catch basin.	rock armor		3	each
3.70	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet and outlet.	rock armor		2	each
3.80	Clean inlet and outlet.	CMP Maint.		2	each
	Armor outlet.	rock armor		1	each
3.90	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet and outlet.	rock armor		2	each
4.20	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet and outlet.	rock armor		2	each
4.35	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet, outlet and catch basin.	rock armor		3	each
4.40	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet, outlet and catch basin.	rock armor		3	each
4.60	End road maintenance for FR 720. Road Jct. with FR 4369.			4.60	miles
	Pre-haul weed spraying - From FR 4361 to FR 4369.			3.85	miles
	Initial blading - Condition dependent from Hwy 83 to FR 4361.			0.75	miles
	Initial blading - Full blade from FR 4361 to FR 4369.			3.85	miles
	Intermediate blading - Condition dependent			4.60	miles
	Post-haul weed spray			4.60	miles
	Final blade (Full Blade)			4.60	miles
FR 720-T1					
	Road junctions with FR 720 approximately 200' from US Hwy 83. Road follows reclaimed road over gentle terrain with minimal clearing and grubbing. Reclaim after hauling.				
0+00	Begin temp road construction.				
9+80	Construct drain dip.	drain dip	Type 3	1	each
15+00	End temporary road construction.				
	Temp rd construction			1500	feet
	Pre-haul weed spraying			1500	feet
	Post-Construction grass seeding			1500	feet
	Post-haul weed spraying			1500	feet

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	Road decommissioning			1500	feet
	Post-decommission grass seeding			1500	feet
FR 720-T2					
	Road junctions with FR 720 approx. 2.3 miles from Hwy 83. Temp road requires moderate clearing and grubbing of mature conifers.				
0+00	Begin new temp road construction. Construct switchback to tie with main road.				
4+20	End temporary road construction.				
	Temp rd construction			420	feet
	Pre-haul weed spraying			420	feet
	Post-Construction grass seeding			420	feet
	Post-haul weed spraying			420	feet
	Road decommissioning			420	feet
	Post-decommission grass seeding			420	feet
FR 36333-C					
	Road junctions with FR 720 approx. 3 miles from Hwy 83. Road requires moderate clearing and grubbing of small to medium size sawlogs.				
0+00	Begin road reconditioning.				
2+80	End reconditioning.	reconditioning		280	feet
	Road reconditioning			280	feet
	Pre-haul weed spraying			280	feet
	Road Brushing			280	feet
	Post-reconstruction grass seeding			280	feet
	Post-haul weed spraying			280	feet
	Road decommissioning			280	feet
	Post-decommission grass seeding			280	feet
FR 36333-E					
	Road junctions with FR 720 approx. 3.7 miles from Hwy 83. The road is located along an existing road prism. Reclaim after use.				
0+00	Begin road reconditioning.				
3+00	End road reconditioning.	reconditioning		300	feet
	Pre-haul weed spraying			300	feet
	Temp road reconstruction			300	feet
	Post-reconstruction grass seeding			300	feet
	Post-haul weed spraying.			300	feet
	Road decommissioning			300	feet
	Post-decommission grass seeding			300	feet

FR 720-T5					
	Road junctions with FR 720 approx. 3.9 miles from Hwy 83. Recontour after use.				
0+00	Begin temporary road construction.				
3+00	End temporary road construction.	construction		300	feet
	Temporary road construction			300	feet
	Pre-haul weed spraying			300	feet
	Post-construction grass seeding			300	feet
	Post-haul weed spraying			300	feet
	Road recontouring			300	feet
	Post-decommission grass seeding			300	feet
FR 17647					
	Road junctions with FR 720 0.10 mile from Hwy 83 and leads to the Missoula Co. Water Treatment Plant. The road is in good overall condition.				
0.00	Begin road maintenance.				
0.21	Clean inlet and outlet.	CMP Maint.		2	each
	Armor catch basin.	rock armor		1	each
0.48	Clean inlet and outlet.	CMP Maint.		2	each
	Armor catch basin.	rock armor		1	each
	Ditch outlet for improved relief.	earthwork		30	feet
0.54	End road maintenance.			0.54	miles
	Pre-haul weed spraying			0.54	miles
	Pre-haul weed spraying - Addl. area			1.60	acres
	Initial blading - spot blade			0.54	miles
	Intermediate blading - condition dependent spot blade			0.54	miles
	final blade - full blade			0.54	miles
	Post-haul weed spraying - road			0.54	miles
FR 17690 & FR 20623					
	Road junctions with FR 17476 approx. 0.30 mile from the gate and is the driveway for the water treatment plant.				
0.00	Begin road maintenance.				
0.06	Road junction. Stay right and follow FR 20623.				
0.07	Construct drain dip.	drain dip	Type 3	1.00	each
0.20	End road maintenance.			0.20	miles
	Pre-haul weed spraying			0.20	miles
	Pre-haul weed spraying - Addl. area			0.50	acres
	Initial blading - spot blade			0.20	miles
	Final blade - Condition dependent (FR 17690 Only)			0.06	miles
	Post-haul weed spraying - road			0.20	miles
	Road decommissioning (FR 20623)			0.14	miles

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	Post-haul grass seeding (FR 20623 Only)			0.14	miles
FR 4361 (Auggie-Morrell Cutoff)					
	Road junctions with FR 720 approx. 0.75 mile from Hwy 83. FR 4361 is part of the primary haul route servicing Units 49 & 183 and is a shared haul route with the GNA Seeley timber sale. Initial weed spraying was accomplished under the GNA Seeley timber sale. Post-haul weed spraying will be accomplished under the GNA Rice timber sale.				
0.00	Begin road maintenance. Condition dependent spot blading prior to hauling.				
0.30	Rd junction with FR 4360. End road maintenance on FR 4361. Continue maintenance on FR 4360.				
	Initial blading - spot blade			0.30	miles
	Intermediate blading - Condition dependent			0.30	miles
	final blade - condition dependent			0.30	miles
	Post-haul weed spraying			0.30	miles
FR 20624-A					
	Road junctions with FR 4361 approximately 1/4 mile from junction with FR 720. Temporary road is located along an existing road requiring minimal clearing and grading. Reclaim after hauling.				
0+00	Move boulder road barriers and fill ditch for access purposes. Begin road maintenance.	earthwork			
3+90	Construct drain dip.	drain dip	Type 3	1	each
7+20	Construct drain dip.	drain dip	Type 3	1	each
8+90	Construct drain dip.	drain dip	Type 3	1	each
11+70	End road maintenance.			0.22	miles
	Pre-haul weed spraying			1,170	feet
	Initial blading - Spot blading			1,170	feet
	Post-haul weed spraying			1,170	feet
	Road decommissioning			1,170	feet
	Post-decommission grass seeding			1,170	feet
FR 4360					
	Road junctions with FR 4361 and a shared haul route with the GNA Seeley timber sale for the entire length. Initial weed spraying and road improvements were accomplished under the GNA Seeley timber sale. Post-haul weed spraying and road maintenance will be accomplished under the GNA Rice timber sale. This is a gated road system closed year-round to public motorized use.				
0.00	Begin road maintenance. Condition dependent spot blading prior to hauling.				
0.42	End road maintenance.				

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	Initial blading - spot blade			0.42	miles
	Intermediate blading - Condition dependent			0.42	miles
	final blade - condition dependent			0.42	miles
	Post-haul weed spraying			0.42	miles
	Post-maintenance grass seeding			0.42	miles
FR 4360-T1 & FR 36334					
	Road junctions with FR 4360 approximately 0.40 mile from the gate. This is new temp road construction requiring full recontouring after hauling is completed. FR 4360-T1 junctions with FR 36334 at the end of temp road construction. FR 36334 requires recontouring and decommission after use.				
0+00	Begin temporary road construction.				
3+20	Construct drain dip.	drain dip	Type 3	1	each
6+90	Construct drain dip.	drain dip	Type 3	1	each
9+40	Construct drain dip.	drain dip	Type 3	1	each
12+90	Construct drain dip.	drain dip	Type 3	1	each
16+50	Construct drain dip.	drain dip	Type 3	1	each
19+90	Construct drain dip.	drain dip	Type 3	1	each
	End temporary road construction.	construction		1,990	feet
0+00	Begin road reconditioning.				
4+10	Construct drain dip.	drain dip	Type 3	1	each
7+90	Construct drain dip.	drain dip	Type 3	1	each
10+40	End road reconditioning.	reconditioning		1,040	feet
	Begin road construction.				
0+00	Begin through-cut with road grade not to exceed 10%. Drift spoils over reconstruction road segments if needed. Do not drift material into draw. Recontour after use.	earthwork		70	cu. yds.
1+00	End new construction.	construction		100	feet
	Construct drain dip.	drain dip	Type 3	1	each
0+00	Junction with FR 36334.				
	Begin road reconditioning. Reclaim after use.				
4+20	Construct drain dip.	drain dip	Type 3	1	each
6+80	Construct drain dip.	drain dip	Type 3	1	each
19+10	Construct drain dip.	drain dip	Type 3	1	each
12+00	Construct drain dip.	drain dip	Type 3	1	each
17+00	Construct drain dip.	drain dip	Type 3	1	each
23+30	Construct drain dip.	drain dip	Type 3	1	each
28+00	Construct drain dip.	drain dip	Type 3	1	each
34+30	Construct drain dip.	drain dip	Type 3	1	each
37+20	Junction with FR 36334-P. FR 36334 continues south past switchback.				
37+70	Construct drain dip.	drain dip	Type 3	1	each
41+80	Construct drain dip.	drain dip	Type 3	1	each
45+90	Construct drain dip.	drain dip	Type 3	1	each
49+20	End reconditioning	reconditioning		4,920	feet

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	Temporary road construction			2,090	feet
	Road reconditioning			5,960	feet
	Pre-haul weed spraying			8,050	feet
	Post-Construction/Reconditioning grass seeding			8,050	feet
	Post-haul weed spraying			8,050	feet
	Road recontouring			2,090	feet
	Road decommissioning			5,960	feet
	Post-decommission/recontour grass seeding			8,050	feet
FR 36334-P					
	Road junctions with FR 36334 at the apex of switchback between stations 34+30 & 37+70 and traverses northerly through switchback for 1,000'. Reclaim after use.				
0+00	Begin road reconditioning.				
2+30	Construct drain dip.	drain dip	Type 3	1	each
5+60	Construct drain dip.	drain dip	Type 3	1	each
10+00	End road reconditioning.				
	Road reconditioning			1,000	feet
	Pre-haul weed spraying			1,000	feet
	Post-reconditioning grass seeding.			1,000	feet
	Post-haul weed spraying			1,000	feet
	Road decommissioning			1,000	feet
	Post-decommission grass seeding			1,000	feet
FR 36209					
	Road junctions with FR 720 approx. 0.80 mile from Hwy 83. The road services Unit 15. Leave in drivable condition after use.				
	Begin road maintenance.				
0+00	Install New gate. Gate location to be approved by Forest Officer.	gate		1	each
	Improve approach to FR 720. This may include curve widening and/or moving existing drain dip on FR 720.	earthwork		50	feet
	Construct earthen barrier after hauling is completed.	earthwork		50	feet
2+60	Construct drain dip.	drain dip	Type 3	1	each
7+40	Construct drain dip.	drain dip	Type 3	1	each
9+40	End road maintenance.				
	Road Reconditioning			940	feet
	Pre-haul weed spraying - Road			940	feet
	final blade - condition dependent			940	feet
	Post-haul weed spraying - Road			940	feet
	Post-maintenance grass seeding			940	feet
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	Road junctions with FR 720 approximately 1 mile from Hwy 83. This is a gated road system closed year-round to public motorized use. Road to be left in drivable condition after use.				
0.00	Begin road maintenance.				
	Begin light clearing and brushing of right-of-way.				
0.05	Construct drain dip.	drain dip	Type 2	1	each
0.12	Begin rock placement. Place material as follows: 270 ft. length, 12 ft width, 6 in. average depth.	gravel	1" crushed	60	cu. yds.
0.20	End rock placement.				
0.23	Begin ditch construction with grader. Construct ditch to 8"-12" depth.	blading		100	feet
0.25	End ditch construction.				
	Construct drain dip.	drain dip	Type 2	1	each
0.27	Install slash filter below existing drain dip.	slash windrow		1	each
	Begin berm construction on outside shoulder of road over stream crossing and tie to next drain dip below crossing.	blading			
0.30	Permanent culvert install. Install 24"x44" metal culvert. See SPA 124 permit for details.	CMP	24"	44	feet
	Borrow fill for culvert install from temp road reconstruction (FR 36248-T1) beginning at 0+00.	earthwork	pit run	110	cu. yds.
0.32	Install slash filter below existing drain dip.	slash windrow		1	each
	End berm construction.	blading		270	feet
0.35	Install 18"x24" metal CMP.	CMP	18"	24	feet
	Borrow fill from temp road construction at FR 36248-T1.	earthwork	pit run	30	cu. yds.
0.40	Construct drain dip.	drain dip	Type 3	1	each
0.45	Road junction with FR 36248-T1.				
0.50	Construct drain dip.	drain dip	Type 3	1	each
0.60	End road maintenance.			0.60	miles
0+00	Begin road reconditioning. Moderate clearing and brushing. This is a USFS System Road. Do Not Reclaim After Use.				
2+80	Construct drain dip.	drain dip	Type 3	1	each
3+80	Road junctions with FR 36248-T3				
6+80	Construct drain dip.	drain dip	Type 3	1	each
7+40	Excavate cut slope and place material on fill slope to build up roadbed to grade.	earthwork		50	cu. yds.
10+30	Construct drain dip.	drain dip	Type 3	1	each
15+90	Construct drain dip.	drain dip	Type 3	1	each
22+40	Construct drain dip.	drain dip	Type 3	1	each
25+90	Construct drain dip.	drain dip	Type 3	1	each
27+10	Road junctions with FR 36248-D				
28+70	Construct drain dip.	drain dip	Type 3	1	each
32+90	Construct drain dip.	drain dip	Type 3	1	each
36+50	Construct drain dip.	drain dip	Type 3	1	each
37+00	Road junction with FR 36248-E				
41+30	Construct drain dip.	drain dip	Type 3	1	each
41+60	Clear for truck turn out.				
48+90	Construct drain dip.	drain dip	Type 3	1	each
53+50	Construct drain dip.	drain dip	Type 3	1	each
56+10	Construct drain dip.	drain dip	Type 3	1	each
59+70	Clear for truck turn out.				

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61+00	Construct drain dip.	drain dip	Type 3	1	each
63+20	Construct drain dip.	drain dip	Type 3	1	each
66+00	Construct drain dip.	drain dip	Type 3	1	each
67+80	Construct drain dip.	drain dip	Type 3	1	each
69+40	Construct drain dip.	drain dip	Type 3	1	each
71+80	End road reconditioning.			7,180	feet
	Initial Blading - Spot blading			0.6	miles
	Pre-haul weed spraying			1.96	miles
	Road Reconditioning			1.36	miles
	Post-reconditioning grass seeding			1.36	miles
	Intermediate blading - Condition dependent			1.96	miles
	Post-haul weed spraying - Road			1.96	miles
	Final blading - Condition dependent			1.96	miles
	Post-maintenance grass seeding			1.96	miles
FR 36248-T1					
	Road junctions with FR 36248 approximately 1/2 mile from gate at FR 720. Recontour all newly constructed temporary road. Reclaim existing road after hauling.				
0+00	Begin new temp road construction. Begin switchback construction with 10-12% favorable grade. Minimal excavation required for switchback construction given favorable topography. Moderate clearing and grubbing along new construction route.				
	Borrow site for fill over CMP installs on FR 36248. Remove needed fill within road prism during switchback construction.	earthwork	pit run	110	cu. yds.
2+10	Construct drain dip.	drain dip	Type 3	1	each
5+60	Construct drain dip.	drain dip	Type 3	1	each
9+20	End new temp road construction. Begin Re-construction on existing road prism.	construction		920	feet
0+00	Begin temp road reconstruction.	drain dip	Type 3	1	each
	Construct drain dip.				
4+90	Construct drain dip.	drain dip	Type 3	1	each
8+50	Construct drain dip.	drain dip	Type 3	1	each
14+50	Construct drain dip with relief ditch.	drain dip	Type 3	1	each
19+90	Construct drain dip with relief ditch.	drain dip	Type 3	1	each
22+40	End road reclamation. USFS system road to 46+70				
25+60	Construct drain dip.	drain dip	Type 3	1	each
29+40	Construct drain dip. Tie top of dip to draw to capture runoff.	drain dip	Type 2	1	each
33+80	Construct drain dip.	drain dip	Type 3	1	each
40+50	Construct drain dip.	drain dip	Type 3	1	each
46+70	End road reconstruction.	re-construction		4,670	feet
	Temp rd new construction			920	feet
	Temp rd reconditioning			4,670	feet
	Post-construction/recondition grass seeding			5,590	feet
	Pre-haul weed spraying			5,590	feet
	Intermediate blading - Condition dependent			5,590	feet

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	Post-haul weed spraying - Road			5,590	feet
	Road decommissioning			4,670	feet
	Road recontouring			920	feet
	Post-decommission grass seeding			5,590	feet
FR 36248-T3					
	Road junctions with FR 36248 approximately 0.70 mile from the gate. From the junction, the road follows an existing road prism westerly around a switchback for several hundred feet. Light to moderate clearing and grubbing of regen to pole size trees. Reclaim reconditioned road after hauling. Recontour all newly constructed temporary road after hauling.				
0+00	Begin temp road reconstruction.				
3+10	Construct drain dip.	drain dip	Type 3	1	each
4+10	End road reconstruction. Begin new temp road construction.	re-construction		410	feet
5+80	Construct drain dip.	drain dip	Type 3	1	each
10+30	End temp road construction.	construction		620	feet
	Temp rd reconditioning			410	feet
	Temp rd new construction			620	feet
	Pre-haul weed spraying			1,030	feet
	Post-construction/reconstruction grass seeding			1,030	feet
	Post-haul weed spraying			1,030	feet
	Road decommissioning			410	feet
	Road recontouring			620	feet
	Post-decommission grass seeding			1,030	feet
FR 36248-D					
	Road junctions with FR 36248 approximately 1.1 mile from the gate and follows an existing road prism westerly. Moderate to heavy clearing and grubbing of pole to small sawlog size trees. Reclaim road after hauling.				
0+00	Begin temporary road reconditioning.				
3+00	Construct drain dip.	drain dip	Type 3	1	each
4+00	End temporary road construction.				
	Temp rd reconditioning			400	feet
	Pre-haul weed spraying			400	feet
	Post-reconstruction grass seeding			400	feet
	Post-haul weed spraying			400	feet
	Road decommissioning			400	feet
	Post-decommission grass seeding			400	feet
FR 36248-E					
	Road junctions with FR 36248 approximately 1.3 mile from the gate and follows an existing road prism northerly. Light to				

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	moderate clearing and grubbing of pole to small sawlog size trees. Reclaim road after hauling.				
0+00	Begin temporary road reconditioning.				
3+40	Construct drain dip.	drain dip	Type 3	1	each
5+40	End road conditioning.				
	Temp rd reconditioning			540	feet
	Pre-haul weed spraying			540	feet
	Post-reconstruction grass seeding			540	feet
	Post-haul weed spraying - Road			540	feet
	Road decommissioning			540	feet
	Post-decommission grass seeding			540	feet
FR 20621					
	Road junctions with FR 36248 approximately 600 ft. from the main gate. Reclamation required after hauling.				
0+00	Begin road maintenance. Light clearing, brushing and spot blading required.				
3+30	Construct drain dip.	drain dip	Type 3	1	each
12+30	End road maintenance. Reclaim after hauling.			1,230	feet
	Initial blading - Full blade			1,230	feet
	Pre-haul weed spraying - Roads			1,230	feet
	Pre-haul weed spraying - Addl. Area			0.68	acres
	Final weed spraying			1,230	feet
	Road decommissioning			1,230	feet
	Post-decommission grass seeding			1,230	feet
FR 36378-A					
	Road junctions with FR 720 approx. 1.1 miles from Hwy 83. This is an existing road prism requiring light to moderate clearing and grubbing of pole and small sawlog size trees. Do Not Reclaim after hauling. Road use to be controlled with gate.				
0+00	Begin road reconditioning.				
0+10	Install New Gate. Gate location to be approved by Forest Officer.	Gate		1	each
1+00	Construct drain dip.	drain dip	Type 3	1	each
2+70	Construct drain dip.	drain dip	Type 3	1	each
5+50	Construct drain dip.	drain dip	Type 3	1	each
9+80	Construct drain dip.	drain dip	Type 3	1	each
14+90	Construct drain dip.	drain dip	Type 3	1	each
18+00	Construct drain dip.	drain dip	Type 3	1	each
21+80	Construct drain dip.	drain dip	Type 3	1	each
26+30	Construct drain dip.	drain dip	Type 3	1	each
30+20	Construct drain dip.	drain dip	Type 3	1	each
33+80	Construct drain dip.	drain dip	Type 3	1	each
35+80	Construct drain dip.	drain dip	Type 3	1	each
38+50	Construct drain dip.	drain dip	Type 3	1	each

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41+60	End road reconditioning.			4,160	feet
	Road reconditioning			4,160	feet
	Post-reconstruction grass seeding			4,160	feet
	Pre-haul weed spraying			4,160	feet
	Intermediate blading - Condition dependent			4,160	feet
	Final blading - Full Blade			4,160	feet
	Final weed spraying			4,160	feet
	Post-maintenance grass seeding			4,160	feet
FR 36378-D					
	Road junctions with FR 36378-A at the end of reconditioning existing road prism. Light to moderate clearing and grubbing of pole to sawlog size trees. This is a road re-route of an existing system road. Do Not Reclaim after use.				
0+00	Begin road construction				
3+70	Construct drain dip.	drain dip	Type 3	1	each
8+40	Construct drain dip.	drain dip	Type 3	1	each
9+60	Install 18"x20' CMP.				
11+00	End road construction	construction		1,100	feet
	Road junction with FR 36378-D-T1 .				
0+00	Begin road reconditioning. Follow existing prism south through apex of switchback.				
3+80	Construct drain dip.	drain dip	Type 3	1	each
6+90	End road reconditioning.	reconditioning		690	feet
	Road reconditioning			690	feet
	Road construction (re-route of existing rd; do not reclaim)			1,100	feet
	Post-construction/reconditioning grass seeding			1,790	feet
	Pre-haul weed spraying - roads			1,790	feet
	Pre-haul weed spraying - Addl. Area			0.19	acres
	Final blading - Condition dependent			1,790	feet
	Post-haul weed spraying			1,790	feet
	Post-maintenance grass seeding			1,790	feet
FR 36378-D-T1					
	Road junctions with FR 36378-D at apex of switchback and travels north. Light to Moderate clearing and grubbing of small to medium size sawlogs.				
0+00	Begin new road construction. Switchback construction on gentle to moderate sideslopes.				
2+50	Construct drain dip. Locate at top of switchback.	drain dip	Type 3	1	each
6+30	Construct drain dip.	drain dip	Type 3	1	each
7+90	End new construction.	construction		790	feet
0+00	Begin road reconditioning on existing prism.				
1+30	Construct drain dip.	drain dip	Type 3	1	each
3+00	End road reconditioning	reconditioning		300	feet

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	Road construction			790	feet
	Road reconditioning			300	feet
	Post-construction/reconditioning grass seeding			1,090	feet
	Pre-haul weed spraying			1,090	feet
	Final weed spraying			1,090	feet
	Road reclamation			300	feet
	Road recontouring			790	feet
	Post-reclamation grass seeding			1,090	feet
FR 17468					
	Road junction with FR 720 approximately 2.1 miles from Hwy 83 and travels westerly from FR 720. This is a well maintained permanent road requiring minimal routine maintenance.				
0.00	Begin road maintenance.				
0.05	Junction with FR 36378.				
0.06	Gate.				
0.07	Improve energy dissipator at outlet by adding additional rock armoring.				
0.08	Construct drain dip. Locate dip at bottom of switchback near junction with temp FR 17468-T1. End road maintenance.	drain dip	Type 3	1	each
	Pre-haul weed spraying			0.08	miles
	Initial blading - Spot blading			0.08	miles
	Intermediate blading - Condition dependent.			0.08	miles
	Post-haul weed spraying			0.08	miles
	Final blading - Condition dependent.			0.08	miles
FR 36378 & 36378-C					
	36378 Road junction with FR 17468 approximately 300 feet from FR 720. Moderate clearing and grubbing of small sawlog size trees. Reclaim after hauling.				
0+00	Begin road reconditioning. Install gate. Gate location to be approved by Forest Officer.	gate		1	each
2+10	Construct drain dip.	drain dip	Type 3	1	each
4+00	Rd junction with FR 36378-C .				
	36378-C Continue road reconditioning.				
7+30	Construct drain dip.	drain dip	Type 3	1	each
9+00	Junction with FR 36378-T1.				
11+80	Construct drain dip.	drain dip	Type 3	1	each
12+40	End road reconditioning. Reclaim to Sta.4+00	reconditioning		1240	feet
	Temp rd reconditioning			1,240	feet
	Post-construction grass seeding			1,240	feet
	Pre-haul weed spraying			1,240	feet
	Intermediate blading - Condition dependent			1,240	feet
	Post-haul weed spraying - Road			1,240	feet
	Final blading - Condition dependent (0+00 to 4+00).			400	feet

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	Road decommissioning			840	feet
	Post-decommission grass seeding			840	feet
FR 36378-T1					
	Road junctions with FR 36378-B approximately 900 feet from FR 17468. Recontour after hauling.				
0+00	Begin temporary road construction.				
2+80	Place 2 loads of pit-run through draw; 60'Lx14"Wx8"D.	rock placement	2" crushed	20	cu. yds.
3+60	End temp road construction. Road junctions with FR 36378-T2 and T3.				
	Temp road construction			360	feet
	Post-construction grass seeding			360	feet
	Pre-haul weed spraying			360	feet
	Post-haul weed spraying - Road and landings			360	feet
	Road decommissioning			360	feet
	Post-decommission grass seeding			360	feet
FR 36378-T2					
	Road junctions with FR 36378-T1 and T3, and traverses northerly along an existing road prism. Moderate clearing and grubbing of pole to small sawlog size trees. Road decommissioning required after hauling.				
0+00	Begin road reconditioning.				
0+80	Construct drain dip.	drain dip	Type 3	1	each
5+70	Construct drain dip.	drain dip	Type 3	1	each
7+30	End road reconditioning.	reconditioning		730	feet
	Temp road reconditioning			730	feet
	Post-reconstruction grass seeding			730	feet
	Pre-haul weed spraying			730	feet
	Intermediate blading - Condition dependent			730	feet
	Post-haul weed spraying - Road and landings			730	feet
	Road decommissioning			730	feet
	Post-decommission grass seeding			730	feet
FR 36378-T3					
	Road junctions with FR 36378-T1 and T2, and traverses southerly along an existing road prism. Moderate clearing and grubbing of pole to small sawlog size trees. Road decommissioning required after hauling.				
0+00	Begin road reconditioning.				
2+70	Construct drain dip.	drain dip	Type 3	1	each
5+20	End road reconditioning.				
	Temp road reconditioning			520	feet

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	Post-reconstruction grass seeding			520	feet
	Pre-haul weed spraying			520	feet
	Post-haul weed spraying - Road and landings			520	feet
	Road decommissioning			520	feet
	Post-decommission grass seeding			520	feet
FR 17468-T1					
	Road junctions with FR 17468 approximately 0.10 mile from FR 720. New road construction traverses northerly through a young stand of regeneration. Light clearing and grubbing required.				
0+00	Begin temp road construction. Construction begins with a sweeping curve/switchback on level to gentle topography at a former landing location before climbing a low-lying ridge in a northerly direction.				
0+30	Construct drain dip.	drain dip	Type 3	1	each
2+80	Construct drain dip.	drain dip	Type 3	1	each
4+00	End temp road construction.				
	Temp road construction			400	feet
	Post-construction grass seeding			400	feet
	Pre-haul weed spraying			400	feet
	Post-haul weed spraying - road			400	feet
	Road recontouring			400	feet
	Post-decommission grass seeding			400	feet
FR 17469					
	FR 17469 junctions with FR 720 approximately 2 miles from Hwy 83. Light clearing of sapling trees required.				
0+00	Begin road maintenance.				
4+60	Construct drain dip.	drain dip	Type 3	1	each
19+80	Construct drain dip.	drain dip	Type 3	1	each
	End road maintenance.				
	Pre-haul weed spraying			1,980	feet
	Initial blading - spot blading			1,980	feet
	Final blading - condition dependent			1,980	feet
	Post-haul weed spraying			1,980	feet
	Post-maintenance grass seeding			1,980	feet
FR 4358 / FR 4358-T1					
	4358 Road junctions with FR 720 approximately 2.7 miles from Hwy 83. This is an existing road requiring light clearing of sapling size regen and windthrow. Reclaim after use.				
0+00	Clean CMP cross drain at road junction. Begin road maintenance.				
3+90	Clean inlet and outlet Clear brush from around inlet and outlet.	CMP Maint.		2	each

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	Armor inlet and outlet.	rock armor		2	each
2+80	Begin full bench road construction for 12' running surface with 1:1 backslope. Place spoils on road beyond 3+80 where full bench ends and road maintenance continues.	earthwork		200	cu. yds.
3+60	End full bench road construction. Continue road maintenance.				
4+20	Construct drain dip.	drain dip	Type 3	1	each
7+00	End road maintenance. Begin temp road construction.			700	feet
0+00	4358 – T1 Begin temp road construction.				
2+60	Construct drain dip.	drain dip	Type 3	1	each
7+00	End temp road construction.				
	Temp Road Construction.			700	feet
					cu. yds.
	Earthwork - full bench construction			200	
	Pre-haul weed spraying			1,400	feet
	Post-haul weed spraying			1,400	feet
	Road decommissioning			700	feet
	Road recontouring			700	feet
	Final grass seeding (reclaimed road segment only).			1,400	feet
FR 36333-A/ FR 36333-A-T1					
	36333-A Road junctions with FR 720 approximately 2.8 miles from Hwy 83. This is an existing road requiring moderate clearing and grubbing of pole size trees. System road; Do Not Reclaim to 15+50.				
	Begin road reconditioning.				
0+00	Install new gate. Gate location to be approved by Forest Officer.	gate		1	each
2+70	Construct drain dip.	drain dip	Type 3	1	each
6+60	Construct drain dip.	drain dip	Type 3	1	each
12+60	Construct drain dip.	drain dip	Type 3	1	each
13+00	Begin inside ditch construction.	blading		200	feet
	End ditch construction.				
15+00	Install 18"x40' metal culvert.	CMP	18"	40	feet
	Armor catch basin, inlet and outlet.	rock armor		3	each
15+50	End road reconditioning. Begin temp road construction.	re-construction		1,550	feet
0+00	36333-A-T1 Begin Temp road construction. Reclaim after use.				
3+70	Construct drain dip.	drain dip	Type 3	1	each
5+80	End temporary road construction.	construction		580	feet
	Road reconditioning			1,550	feet
	Temp road construction			580	feet
	Post construction/reconstruction grass seeding			2,130	feet
	Pre-haul weed spraying			2,130	feet
	Post-haul weed spraying			2,130	feet
	Final blading - Condition dependent			1,550	feet
	Road recontouring			580	feet
	Post-decommission grass seeding			580	feet
	Post-maintenance grass seeding			1,550	feet

FR 36332 & FR 36332-T1					
	Road junctions with FR 720 approximately 3.3 miles from Hwy 83. Road is gated year-round. Minimal clearing and surface improvement needed. Reconditioned road to be left in drivable condition after hauling.				
0+00	Begin road maintenance.				
1+90	Gate. End road maintenance. Begin road reconditioning. Light to moderate clearing and grubbing required. Minimal widening needed for hauling.				
2+10	Construct drain dip.	drain dip	Type 3	1	each
5+00	Construct drain dip.	drain dip	Type 3	1	each
8+60	Approx. junction with FR 36332-T2				
11+50	Construct drain dip.	drain dip	Type 3	1	each
15+00	Construct drain dip.	drain dip	Type 3	1	each
18+50	Install 18"x36" metal culvert.	CMP	18"	36	feet
	Armor catch basin, inlet and outlet.	rock armor		3	each
	Construct inside ditch for 20' each side of inlet.	blading		40	feet
	Install slash filter over outlet.	slash windrow		1	each
	Install energy dissipator at outlet.	rock armor		1	each
20+40	Construct drain dip.	drain dip	Type 3	1	each
25+30	Outslope grade road.	blading			
29+50	Install 24"x48" metal culvert.	CMP	24"	48	feet
	Armor catch basin, inlet and outlet.	rock armor		3	each
	Install energy dissipator at outlet.	rock armor		1	each
	Install slash filter over outlet.	slash windrow		1	each
30+40	Construct drain dip.	drain dip	Type 3	1	each
39+20	Construct drain dip.	drain dip	Type 3	1	each
40+60	End road reconditioning. Begin temporary road construction.			4,060	feet
0+00	FR 36332-T1: Begin temporary road construction. Light to heavy clearing and grubbing of mature sawlog size trees. Recontour after use.				
1+80	Construct drain dip.	drain dip	Type 3	1	each
4+90	Construct drain dip.	drain dip	Type 3	1	each
8+40	Construct drain dip.	drain dip	Type 3	1	each
11+60	Construct drain dip.	drain dip	Type 3	1	each
15+10	Construct drain dip.	drain dip	Type 3	1	each
19+30	Construct drain dip.	drain dip	Type 3	1	each
	Construct truck turn-around.	earthwork	common	50	cu. yds.
	End road construction.				
	Road reconditioning			4,060	feet
	Temporary road construction			1,930	feet
	Pre-haul weed spraying			5,990	feet
	Post-construction/reconstruction grass seeding			5,990	feet
	Intermediate blading - Condition dependent			5,990	feet
	Post-haul weed spraying			5,990	feet
	Road recontouring			1,930	feet

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	Final blading - Condition dependent			4,060	feet
	Post-decommission grass seeding			1,930	feet
	Post-maintenance grass seeding			4,060	feet
FR 36332-E					
	Road junctions with FR 36332 approximately 900 feet from the main gate. Light to moderate clearing and grubbing of pole size trees. Do Not Reclaim after use.				
0+00	Begin road reconditioning.				
2+40	Construct drain dip.	drain dip	Type 3	1	each
5+90	Construct drain dip.	drain dip	Type 3	1	each
9+00	End road reconstruction.				
	Road reconditioning			900	feet
	Post-reconstruction grass seeding			900	feet
	Pre-haul weed spraying			900	feet
	Post-haul weed spraying			900	feet
	Final blading - Condition dependent			900	feet
	Post-maintenance grass seeding			900	feet
FR 17470					
	Road junctions with FR 720 approximately 4 miles from Hwy 83. This is a gated road year-round to public motorized use. The road is in good overall condition. Do not reclaim after use.				
0	Begin road maintenance.				
0.07	Construct drain dip.	drain dip	Type 2	1	each
0.13	Clean inlet and outlet.	CMP Maint.		2	each
	Armor inlet and outlet.	rock armor		2	each
0.22	Construct drain dip.	drain dip	Type 2	1	each
	End road maintenance.				
	Initial weed spraying - roads			0.22	miles
	Initial weed spraying - addl. Landing areas			0.31	acres
	Initial blading - Spot blading			0.22	miles
	Post-haul weed spraying - roads			0.22	miles
	Post-maintenance grass seeding			0.22	miles
FR 17472					
	Road junctions with FR 720 approximately 4.1 miles from Hwy 83. This is a gated road year-round to public motorized use. The road requires light to moderate clearing and grubbing of sapling to pole size trees. Minimal widening needed for hauling. Do not reclaim after use.				
0+00	Begin road reconditioning.				
3+30	Construct drain dip.	drain dip	Type 3	1	each
8+00	Construct drain dip.	drain dip	Type 3	1	each
12+20	Construct drain dip.	drain dip	Type 3	1	each

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17+20	Construct drain dip.	drain dip	Type 3	1	each
22+40	Construct drain dip.	drain dip	Type 3	1	each
27+40	Construct drain dip.	drain dip	Type 3	1	each
29+60	End reconditioning.				
	Road reconditioning			2,960	feet
	Pre-haul weed spraying			2,960	feet
	Initial blading - Spot blading			2,960	feet
	Post-haul weed spraying			2,960	feet
	Final blading - condition dependent			2,960	feet
	Post-maintenance grass seeding			2,960	feet
FR 4369					
	Road junctions with FR 720 approximately 4.6 miles from Hwy 83. This is a gated road year-round to public motorized use. The road is in good overall condition. (Access to Unit 26 is restricted to April 1 - November 30 only)				
0.00	Begin road maintenance.				
0.15	Construct drain dip.	drain dip	Type 2	1	each
0.20	Clean inlet and outlet.	CMP Maint.		2	each
	Construct drain dip.	drain dip	Type 2	1	each
0.40	Construct drain dip.	drain dip	Type 2	1	each
0.44	End road maintenance.				
	Pre-haul weed spraying			0.44	miles
	Initial blading - Spot blading			0.44	miles
	Post-haul weed spraying			0.44	miles
	Final blading - condition dependent			0.44	miles
	Post-maintenance grass seeding			0.44	miles
FR 17689 & FR 20631					
	Road junctions with Hwy 83 north of Rice Creek across from the Seeley Ranger Station. Existing road services two cabin sites and is the access to Unit 22. Road reconstruction follows reclaimed road prism. Leave in drivable condition after hauling.				
0+00	Begin full initial full blading prior to hauling.				
0+90	Clean open-top wood diverter				
2+90	Construct drain dip.	drain dip	Type 2	1	each
	End full blading. End Road maintenance.				
4+30	Road junctions with FR 20631 at the end of road maintenance and follows reclaimed road prism.				
0+00	Begin road reconstruction (FR 20631).				
4+00	Construct drain dip.	drain dip	Type 3	1	each
7+10	Construct drain dip.	drain dip	Type 3	1	each
12+50	Construct drain dip.	drain dip	Type 3	1	each
17+60	End road reconstruction			1760	feet

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	Initial blading - full blade			430	feet
	Road Reconstruction			1760	feet
	Pre-haul weed spraying - roads			2190	feet
	Pre-haul weed spraying - Addl landing areas			0.70	acres
	Post-reconstruction grass seeding			1760	feet
	Final Blading - Condition dependent			2190	feet
	Post-haul weed spraying			2190	feet
	Post-maintenance grass seeding			2190	feet
FR 1000-T1					
	Road junctions with driveway along Hwy 83 south of Rice Creek across from the Seeley Ranger Station. Existing road services one cabin site and is the access to Unit 18A. Temp road construction uses driveway approach. Reclaim road after hauling.				
0+00	Begin temp road construction.				
2+30	End temp road construction.				
	Temp road construction			230	feet
	Pre-haul weed spraying			230	feet
	Post-construction grass seeding			230	feet
	Post-haul weed spraying			230	feet
	Road recontouring			230	feet
	Post-recontour grass seeding			230	feet

IX. SPECIFICATIONS AND DRAWINGS

A. REQUIREMENTS: Any construction requirements or structures shown in the Timber Sale Contract or Attachment B shall be constructed and installed by the Purchaser to specifications in this section. Structures shall be constructed at locations shown in the Road Log and as specified or staked by the Forest Officer.

B. SPECIFICATIONS:

1. Road Construction Fabric: When road construction fabric is required the following specifications shall be met: minimum twenty mills thick with minimum trapezoid tear strength (ASTMD-1117-80) of 110 and mullen burst strength (ASTMD-3786-80) of minimum 375 psi; (e.g. Mirafi 500x or AMOCO 200208).

C. SPECIFICATION TABLES AND DRAWINGS:

GENERAL SPECIFICATIONS

GRASS SEEDING SPECIFICATIONS

NOXIOUS WEED TREATMENT

GRAVEL AND END HAUL FILL MATERIAL SPECIFICATIONS

CLEAR LIMITS AND TYPICAL CROSS SECTIONS

CLEAR LIMIT DEFINITIONS FOR EXISTING ROADS

SLASH FILTER WINDROW

TEMPORARY ROAD OBLITERATION

STANDARD DRAIN DIP FOR SINGLE LANE ROAD

CULVERT INSTALLATION REQUIREMENTS

SWITCHBACK REQUIREMENTS & SPECIFICATIONS

HIGHWAY SAFETY SIGNS

DRAFT

GENERAL SPECIFICATIONS	
<p>ALIGNMENT</p> <p>Minimum Curve Radius:</p> <p>Switchbacks: 50 Feet</p> <p>Curves: As marked on the ground</p>	<p>CUT SLOPE RATIO</p> <p>Common excavation: 1:1</p> <p>Angular Rock: 3/4:1</p> <p>Solid Rock: 1/4:1</p> <p>Maximum tolerance: plus 15% minus 0%</p>
<p>ROAD GRADE MAXIMUM</p> <p>Favorable: 12%</p> <p>Adverse: 8%</p> <p>Grades as shown in the Road Log</p>	<p>FILL SLOPE RATIO</p> <p>Common material: 1-1/2:1</p> <p>Angular rock: 1-1/3:1</p> <p>Maximum tolerance: plus 15% minus 0%</p>
<p>DITCHES</p> <p>Width: 3 feet</p> <p>Depth: 1 foot</p> <p>Located as shown in the Road Log or as directed by the Forest Officer</p>	<p>TURNOUTS</p> <p>Length: 75 feet</p> <p>Width: 7 feet</p> <p>Located by Purchaser and approved by the Forest Officer. Spacing will be intervisible as topography allows.</p>
<p>USABLE ROAD SURFACE</p> <p>Tangents: 14 feet</p> <p>Curves: 16 feet (radius over 75 feet) 20 feet (radius under 75 feet)</p> <p>Switchbacks: 22 feet</p> <p>Slough widening: (in addition to usable road surface) Tangents: 1 foot Curves and all fills over 6 feet height: 2 feet.</p>	<p>TURNAROUNDS</p> <p>Dimensions: large enough to safely turn around a long wheel base 2-wheel-drive pickup.</p> <p>Location: at or near the end of all dead end roads as approved by the Forest Officer.</p>

GRASS SEEDING SPECIFICATIONS

A. SEED REQUIREMENTS: The Purchaser is responsible for grass seeding.

- Blue tags, or copies of blue tags from each seed lot used in the specified mix. Only certified, blue-tagged seed shall be used. The blue tag represents a field certification and serves as evidence of the genetic purity and varietal identity of the seed contained in the seed lot.
- Labels which indicate the percentage composition of the various species in the seed mix.
- Copies of Seed Analysis Reports from a certified seed analyst for each seed lot used in the specified mix. DNRC will obtain this report from the seed provider. Seed Analysis Reports must include at a minimum, content of any noxious and regulated weed seeds listed on the current "State of **MONTANA** Noxious Weeds and Regulated Plant List". Only after the Forest Officer has verified that this report indicates the seed does not contain any weeds on the current "State of **MONTANA** Noxious Weeds and Regulated Plant List", will the seed be accepted and used.

Unless otherwise agreed, the kinds and amounts of seed to be sown in terms of pure live seed (PLS) shall be:

Lolo NF Seed Mix A	
Species of Seed	PLS Pounds per Acre
Mountain Brome (<i>Bromus marginatus</i>)	6.38
Slender Wheatgrass (<i>Elymus trachycalus</i>)	1.93
Sterile Wheat (<i>Triticale x Secale</i>)	11.82
Total	20.14

B. APPLICATION REQUIREMENTS:

1. Fertilizer and seed may be applied with a hand spreader or power blower, which adjusts to distribute seed evenly at the specified rate while limiting application to the desired area. Seed and fertilizer shall be applied separately. Mixing of seed and fertilizer is prohibited.
2. Seed and fertilizer shall be applied as listed in the following tables. In the event weather conditions or time of year are not conducive for successful seed establishment, the Forest Officer may require a different application schedule from the ones stated.
3. Application estimates are approximate figures only to be used for estimating purposes.

SEEDING CONCURRENT WITH ROAD WORK

Areas shown in this table shall be seeded concurrent with initial road construction/re-construction according to the following schedule:

Cut slopes shall be seeded within 7 calendar days of the day that each segment of cut slope is rough shaped with the dozer or excavator. A cut slope segment is defined as one day's work regardless of the amount of work accomplished or the length of the cut slope. Even if the driving portion of the road is not shaped, graded or drivable, cut slope seeding is still required.

FILL SLOPES, DITCHES, SHOULDERS OF THE ROAD AND OTHER DISTURBED AREAS SHALL BE SEEDED WITHIN 15 CALENDAR DAYS AFTER COMPLETION OF EACH ROAD SEGMENT.

Road Name	Length (feet)	Seed pounds per acre	Fertilizer lbs / Ac	Acres
FR 720-T1	1,500	20.14	n/a	0.20
FR 720-T2	420	20.14	n/a	0.10
FR 36333-C	280	20.14	n/a	0.06
FR 36333-E	300	20.14	n/a	0.06
FR 720-T5	300	20.14	n/a	0.06
4360-T1 & FR 36334	8,050	20.14	n/a	2.22
FR 36334-P	1,000	20.14	n/a	2.28
FR 36209	940	20.14	n/a	0.22
FR 36248	7,180	20.14	n/a	3.30
FR 36248-T1	5,590	20.14	n/a	0.80
FR 36248-T3	1,030	20.14	n/a	0.19
FR 36248-D	400	20.14	n/a	0.09
FR 36248-E	540	20.14	n/a	0.12
FR 36378-D	1,790	20.14	n/a	0.49
FR 36378-D-T1	1,090	20.14	n/a	0.20
FR 36378-A	4,030	20.14	n/a	0.74
FR 36378	1,240	20.14	n/a	0.17
FR 36378-T1	360	20.14	n/a	0.05
FR 36378-T2	730	20.14	n/a	0.17
FR 36378-T3	520	20.14	n/a	0.12
FR 17468-T1	400	20.14	n/a	0.06

FR 4358	780	20.14	n/a	0.27
FR 36333-A	2,130	20.14	n/a	0.80
FR 36332 & FR 36332-T1	5,990	20.14	n/a	1.65
FR 36332-E	900	20.14	n/a	0.21
FR 17472	2,960	20.14	n/a	1.09
FR 20631	1,760	20.14	n/a	0.24
FR 1000-T1	230	20.14	n/a	0.03
TOTAL	9.93 miles			15.99 Ac
Total Pounds Mixed Seed: 322 pounds				

SEEDING FOLLOWING TEMP ROAD OBLITERATION Areas shown in this table shall be seeded and fertilized within 15 calendar days after completion of decommissioning and obliteration.				
Road Name	Length (feet)	Seed pounds per acre	Fertilizer lbs / Ac	Acres
FR 720-T1	1,500	20.14	n/a	0.52
FR 720-T2	420	20.14	n/a	0.14
FR 36333-C	280	20.14	n/a	0.14
FR 36333-E	300	20.14	n/a	0.14
FR 720-T5	300	20.14	n/a	0.14
FR 20623	740	20.14	n/a	0.20
FR 20624-A	1,170	20.14	n/a	0.40
FR 4360-T1 & FR 36334	8,050	20.14	n/a	2.77
FR 36334-P	1,000	20.14	n/a	0.34
FR 36248-T1	5,590	20.14	n/a	1.92
FR 36248-T3	1,030	20.14	n/a	0.47
FR 36248-D	400	20.14	n/a	0.14
FR 36248-E	540	20.14	n/a	0.19
FR 36378-D-T1	1,090	20.14	n/a	0.75
FR 36378	1,240	20.14	n/a	0.43
FR 36378-T1	360	20.14	n/a	0.12
FR 36378-T2	730	20.14	n/a	0.25

FR 36378-T3	520	20.14	n/a	0.18
FR 17468-T1	400	20.14	n/a	0.18
FR 4358	620	20.14	n/a	0.20
FR 36333-A	580	20.14	n/a	0.40
FR 36332-T1	1,930	20.14	n/a	1.33
FR 1000-T1	230	20.14	n/a	0.08
Skid/Forwarder Trails	10,600	20.14	n/a	2.0
Landings	--	20.14	n/a	2.0
TOTAL	7.50 miles			15.43 Ac
Total Pounds Mixed Seed: 310 pounds				

SEEDING FOLLOWING FINAL ROAD MAINTENANCE

Areas shown in this table shall be seeded and fertilized within
15 calendar days after completion of final road blading and shaping.

Road Name	Length (miles)	Seed pounds per acre	Fertilizer pounds per acre	Acres
FR 4360	0.42	20.14	n/a	0.71
FR 36209	0.18	20.14	n/a	0.30
FR 36248	1.96	20.14	n/a	3.33
FR 36378-A	0.76	20.14	n/a	1.30
FR 36378-D	0.34	20.14	n/a	0.58
FR 17468	0.08	20.14	n/a	0.14
FR 36378	0.08	20.14	n/a	0.13
FR 17469	0.38	20.14	n/a	0.64
FR 36333-A	0.29	20.14	n/a	0.50
FR 36332	0.77	20.14	n/a	1.30
FR 36332-E	0.17	20.14	n/a	0.29
FR 17470	0.22	20.14	n/a	0.37
FR 17472	0.56	20.14	n/a	0.95
FR 4369	0.44	20.14	n/a	0.75
FR 17689 & FR 20631	0.41	20.14	n/a	0.70
TOTAL	7.06 mi.			11.99 Ac
Total Pounds Mixed Seed: 241 pounds				

NOXIOUS WEED TREATMENT

The roads shown in the table below and being used by the Purchaser shall be treated with herbicide to remove seed-bearing noxious weeds. Unless otherwise agreed, Purchaser shall:

- A. Include a schedule for herbicide treatment of noxious weeds as part of the annual operating plan.
- B. Treat roads or road segments required to have noxious weeds treated between June 1 and October 31.
- C. Follow the "Technical Spraying Specifications" in Section VI.H of Appendix B.

Road Name	HERBICIDE APPLICATION				
	Treatment shall consist of spot applications that target those noxious weeds identified on the State of Montana Noxious Weed List that occur <u>from the toe of the fill to the top of the cut, including the running surface and turnouts</u> on the listed roads. Reasonable care shall be exercised to limit application so that spraying does not contact native forbes, grasses, herbs, and trees. Initial treatment of Landings and Trails are suitable for ATV application.				
Road Name	Length (miles)	Acres	Herbicide	Pre-Haul	Post-Haul
FR 720	3.85	21	Aminopyralid	Yes	No
FR 720	4.60	25.1	Aminopyralid	No	Yes
FR 720-T1	0.28	0.55	Aminopyralid	Yes	Yes
FR 720-T2	0.08	0.19	Aminopyralid	Yes	Yes
FR 36333-C	0.05	0.13	Aminopyralid	Yes	Yes
FR 36333-E	0.06	0.14	Aminopyralid	Yes	Yes
FR 720-T5	0.06	0.14	Aminopyralid	Yes	Yes
FR 17467	0.54	2.94	Aminopyralid	Yes	Yes
FR 17690 & FR 20623	0.20	0.73	Aminopyralid	Yes	Yes
FR 4361	0.30	1.09	Aminopyralid	No	Yes
FR 20624-A	0.22	0.54	Aminopyralid	Yes	Yes
FR 4360	0.42	1.02	Aminopyralid	No	Yes
FR 4360-T1 & FR 36334	1.52	3.68	Aminopyralid	Yes	Yes
FR 36334-P	0.19	0.69	Aminopyralid	Yes	Yes
FR 36209	0.18	0.65	Aminopyralid	Yes	Yes
FR 36248	1.96	4.75	Aminopyralid	Yes	Yes
FR 36248-T1	1.06	2.57	Aminopyralid	Yes	Yes
FR 36248-T3	0.20	0.47	Aminopyralid	Yes	Yes

ATTACHMENT B

FR 36248-D	0.08	0.18	Aminopyralid	Yes	Yes
FR 36248-E	0.10	0.25	Aminopyralid	Yes	Yes
FR 20621	0.23	0.56	Aminopyralid	Yes	Yes
FR 36378-A	0.79	1.91	Aminopyralid	Yes	Yes
FR 36378-D	0.34	1.23	Aminopyralid	Yes	Yes
FR 36378-D-T1	0.21	0.75	Aminopyralid	Yes	Yes
FR 17468	0.08	0.29	Aminopyralid	Yes	Yes
FR 36378	0.23	0.57	Aminopyralid	Yes	Yes
FR 36378-T1	0.07	0.17	Aminopyralid	Yes	Yes
FR 36378-T2	0.14	0.34	Aminopyralid	Yes	Yes
FR 36378-T3	0.10	0.24	Aminopyralid	Yes	Yes
FR 17468-T1	0.08	0.18	Aminopyralid	Yes	Yes
FR 17469	0.38	1.36	Aminopyralid	Yes	Yes
FR 4358	0.27	0.96	Aminopyralid	Yes	Yes
FR 36333-A	0.40	1.47	Aminopyralid	Yes	Yes
FR 36332 & FR 36332-T1	1.13	4.13	Aminopyralid	Yes	Yes
FR 36332-E	0.17	0.41	Aminopyralid	Yes	Yes
FR 17470	0.22	0.53	Aminopyralid	Yes	Yes
FR 17472	0.56	1.36	Aminopyralid	Yes	Yes
FR 4369	0.44	1.07	Aminopyralid	Yes	Yes
FR 17689 & FR 20631	0.41	1.00	Aminopyralid	Yes	Yes
FR 1000-T1	0.04	0.11	Aminopyralid	Yes	Yes
Landings & Trails	--	3.28	Aminopyralid	Yes	Yes
TOTAL	22.24 miles	42.63 acres			

GRAVEL AND ROCK SPECIFICATIONS	
Material	Specifications
1" crushed gravel	Crushed gravel. Well graded. Fine fraction (minus 200 sieve) not to exceed 15%
2" crushed gravel	Crushed gravel. Well graded. Fine fraction (minus 200 sieve) not to exceed 15%
Pit run gravel	Native gravel, well graded, with binder, compactable and not containing any rocks over 4" diameter.
<p align="center">General Large Rock Requirements</p> <p>Stone shall be hard, durable, angular in shape, resistant to weathering and weather action, and free from overburden, soil, and organic matter. Stone must be hard enough so pieces do not fracture or break during the loading, hauling, or placement activities. Neither breadth nor thickness of stone shall be less than one-third its length. Rounded stone or boulders from a streambed will not be accepted unless authorized by the State.</p>	
Rock armor	Large rock with most sizes ranging from 6" to 12" diameter, used to armor fill slopes and catch basins.
Talus rock	Large rock of variable sizes used as load-bearing fill or drainage rock in soft areas or French drains, as approved by Forest Officer.
Energy dissipators	Large rock 18-24" diameter placed in streams at culvert outlets.

Clear Limits and Typical Cross Sections

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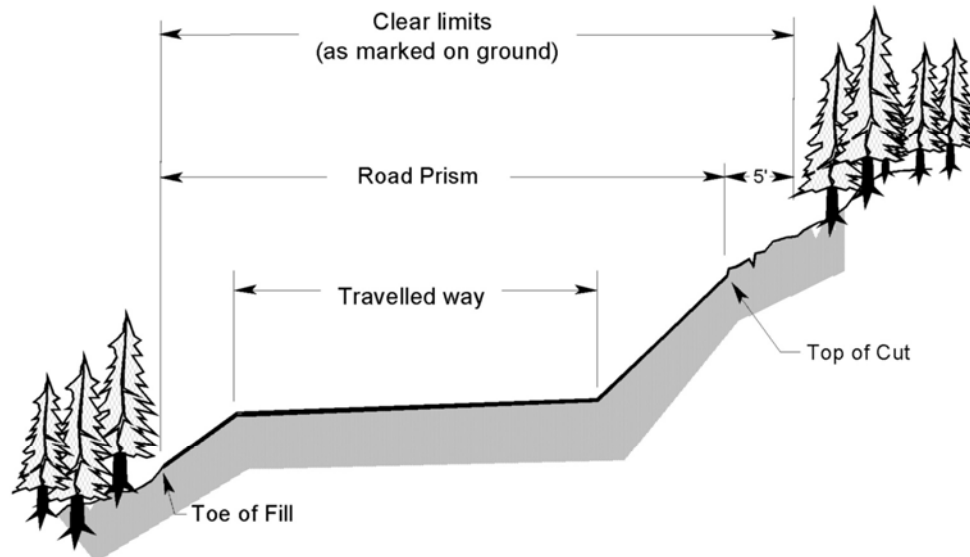


Figure I: Clear limits for New Construction

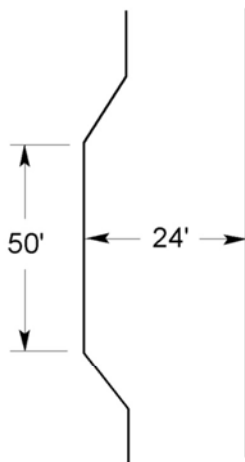
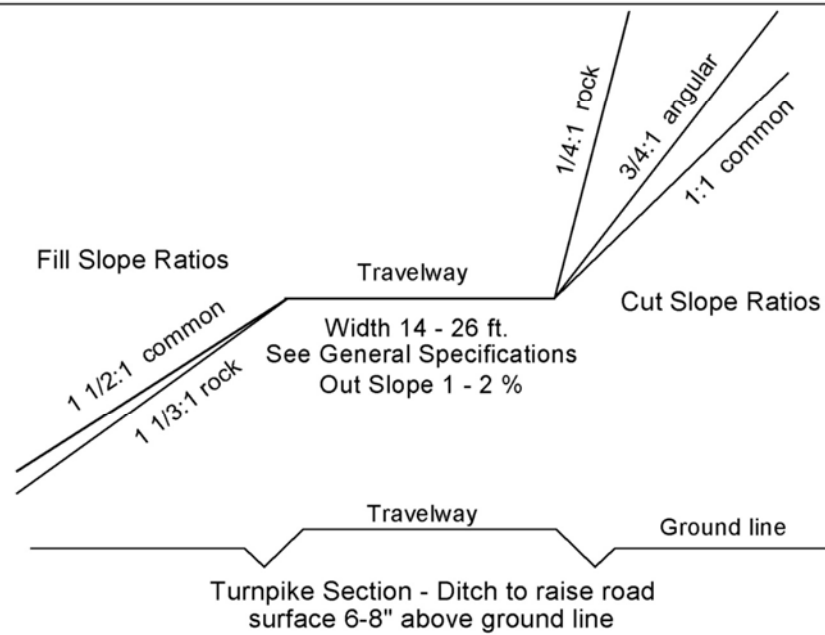
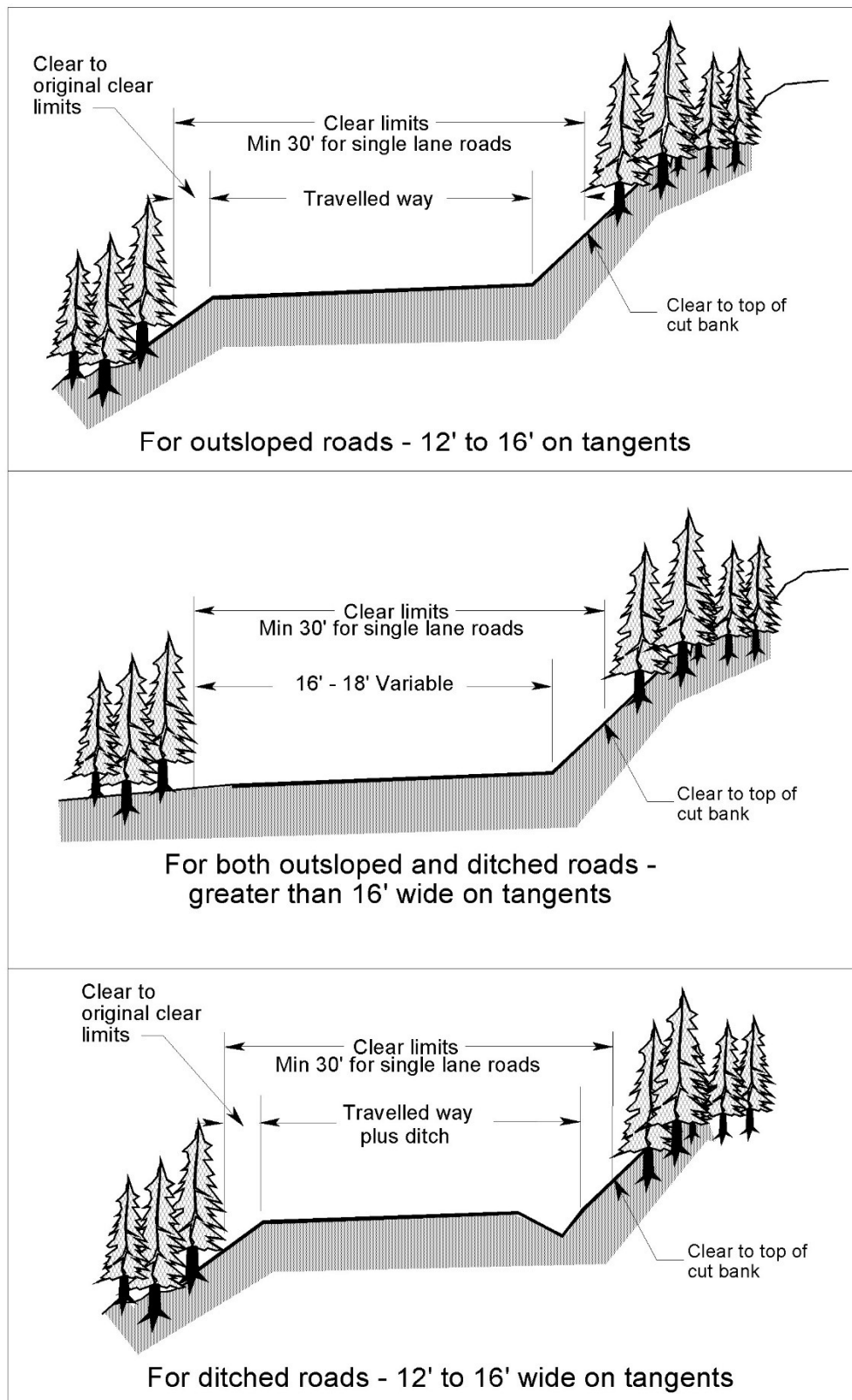
Figure II:
Typical turn out
construction

Figure III: Typical Cross Sections

CLEAR LIMIT DEFINITIONS FOR EXISTING ROADS



SLASH FILTER WINDROW SPECIFICATIONS

Materials must be stockpiled prior to construction of windrows.

Cull logs must be anchored in place against undisturbed stumps, large rocks or trees at the toe of the fill.

Slash must be placed above the logs with a backhoe and tamped into place with the bucket.

Slash should be tamped so it is embedded approximately 6 inches into the fill surface to prevent water from running under the windrow.

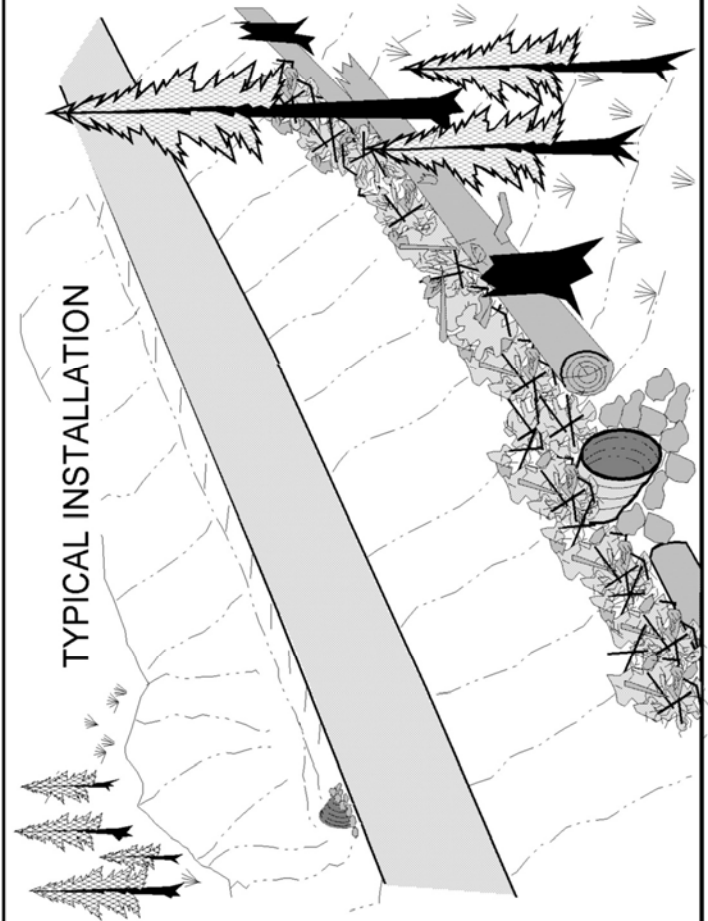
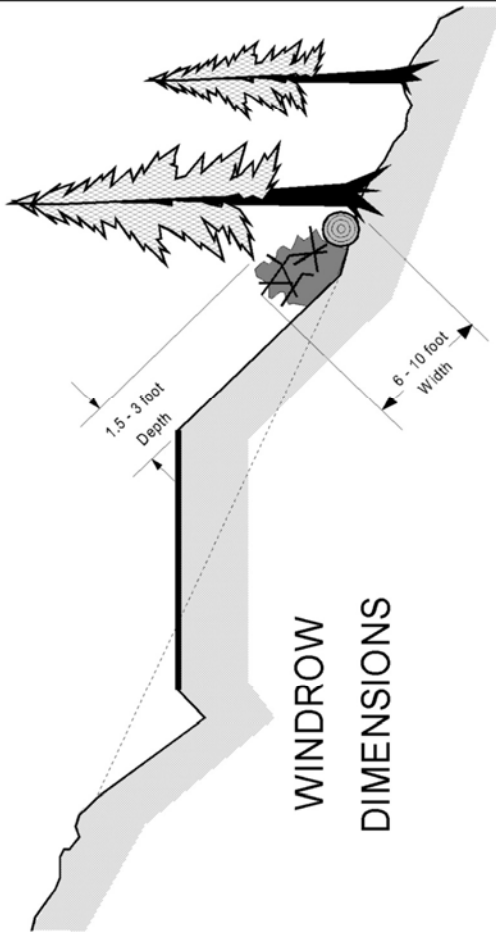
Slash, limbs and tops must be smaller than 12 feet long and 6 inches diameter. Stumps and root wads may not be used.

Anchor logs must be larger than 16 inches diameter. Reasonably sound cull logs may be used.

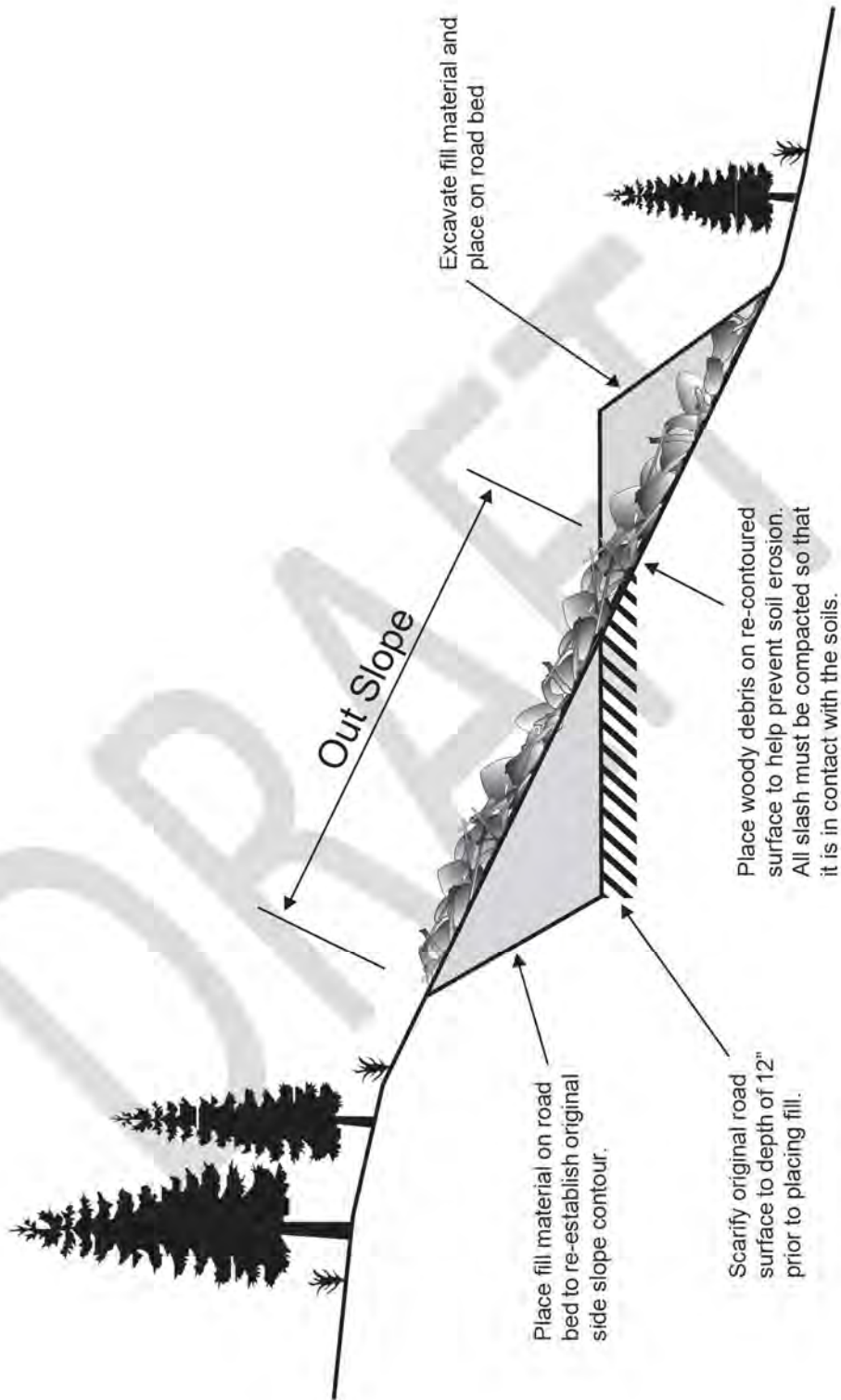
Windrows shall not interfere with the functioning of drainage structures or block stream channels.

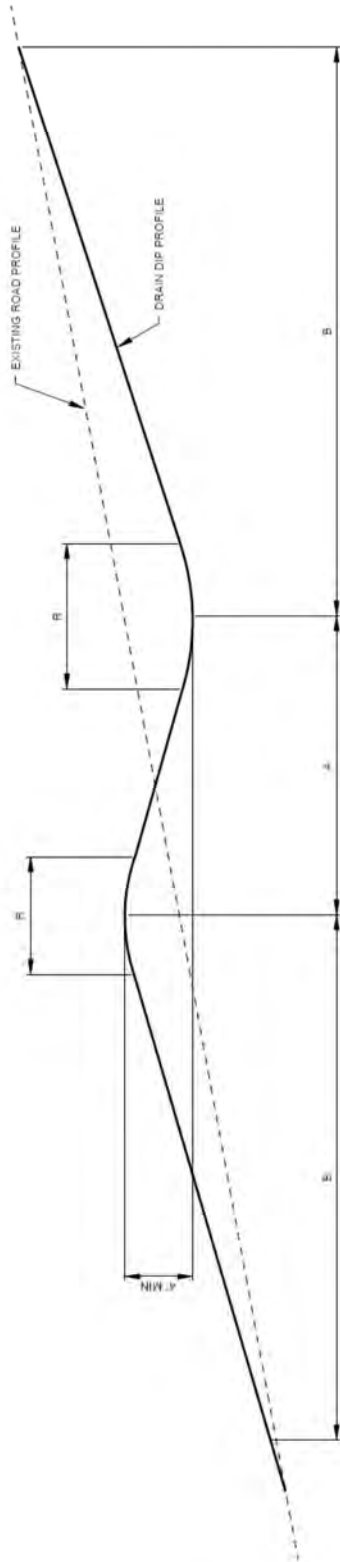
All locations will be staked or flagged by the Forest Officer.

When installing windrows over the top of culverts, pipe length must be increased by 3 - 4 feet to accommodate windrow placement.



Temporary Road Obliteration Detail





DRAIN DIP
NOT TO SCALE

- NOTES:
1. CROSS SLOPE OF THE LOW POINT DRAINLINE SHALL BE 5%.
 2. SKEW OF DRAINLINE SHALL BE 0-35 DEGREES.
 3. WHEN RIPRAP IS SPECIFIED AT OUTLET, IT SHALL BE SHAPED TO ASSURE WATER GOES ONTO RIPRAP, NOT AROUND.
 4. RIPRAP TOP ELEVATION SHALL BE AT TOP OF FINISHED OUTLET.
 5. RIPRAP SHALL BE 18" X 18" X 18" MINIMUM.
 6. TAPER LENGTHS SHALL BE WITHIN 10% OF LISTED LENGTHS.
 7. UNLESS OTHERWISE SPECIFIED DO NOT INTERCEPT THE ROADWAY DITCH.

GRADE (%)	TYPE I			TYPE II			TYPE III		
	LENGTH	TAPER	ROUNDING	LENGTH	TAPER	ROUNDING	LENGTH	TAPER	ROUNDING
	A(ft)	B(ft)	R(R)	A(ft)	B(ft)	R(R)	A(ft)	B(ft)	R(R)
0-5	30	30	30	20	25	20	10	15	10
6-9	30	50	30	20	40	20	10	20	10
10-12	30	60	30	20	50	20	10	30	10

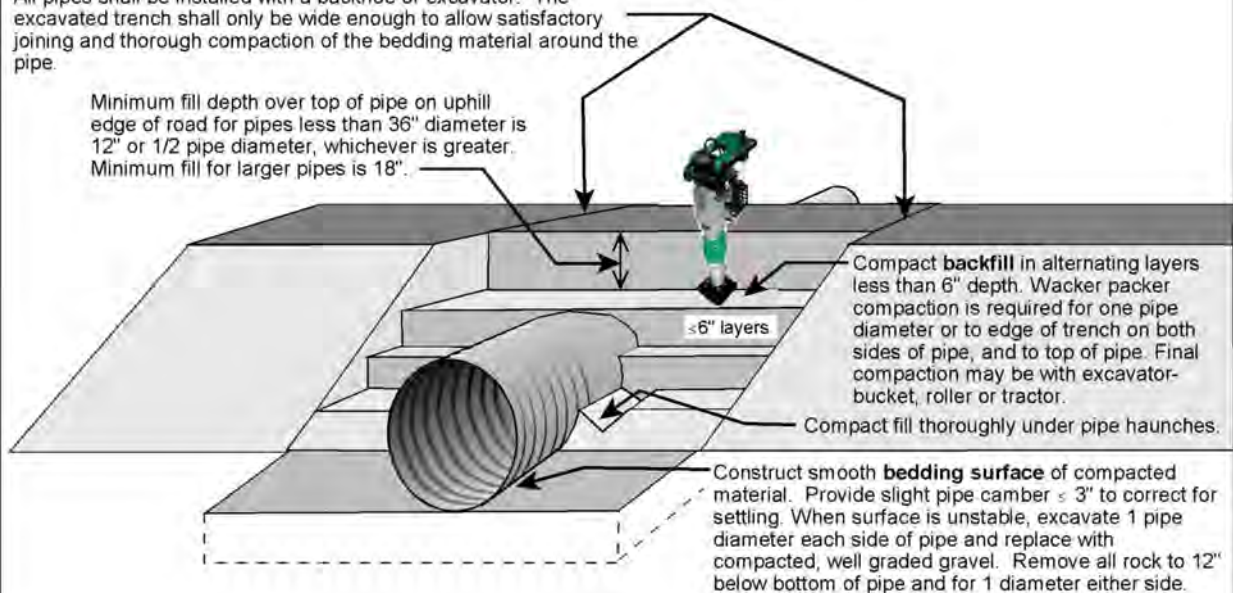
CULVERT REQUIREMENTS

- ▶ Exact locations for pipes shall be determined by the Forest Officer after right of way has been cleared.
- ▶ Backfill shall be select, sorted material. Gravel may be required in road log. If native backfill is used, rocks over 3 inches diameter, organic or frozen materials are not permitted.
- ▶ Pipe shall be protected by adequate fill before equipment is allowed to cross.
- ▶ Pipe that is damaged or improperly installed shall be repaired or replaced at purchaser's expense.
- ▶ The Forest Officer must be contacted two days before any culvert installation and must be present for any wet site culvert installation.
- ▶ Wet site installations will have additional requirements for timing, erosion control and management.

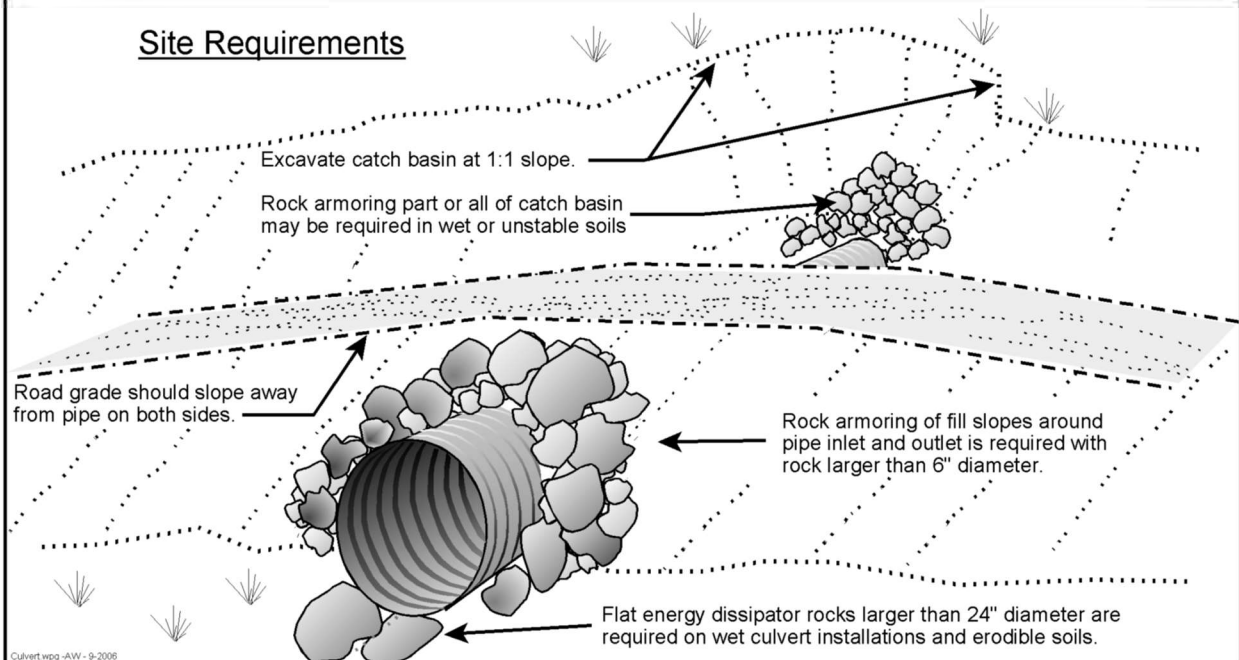
Installation Requirements

All pipes shall be installed with a backhoe or excavator. The excavated trench shall only be wide enough to allow satisfactory joining and thorough compaction of the bedding material around the pipe.

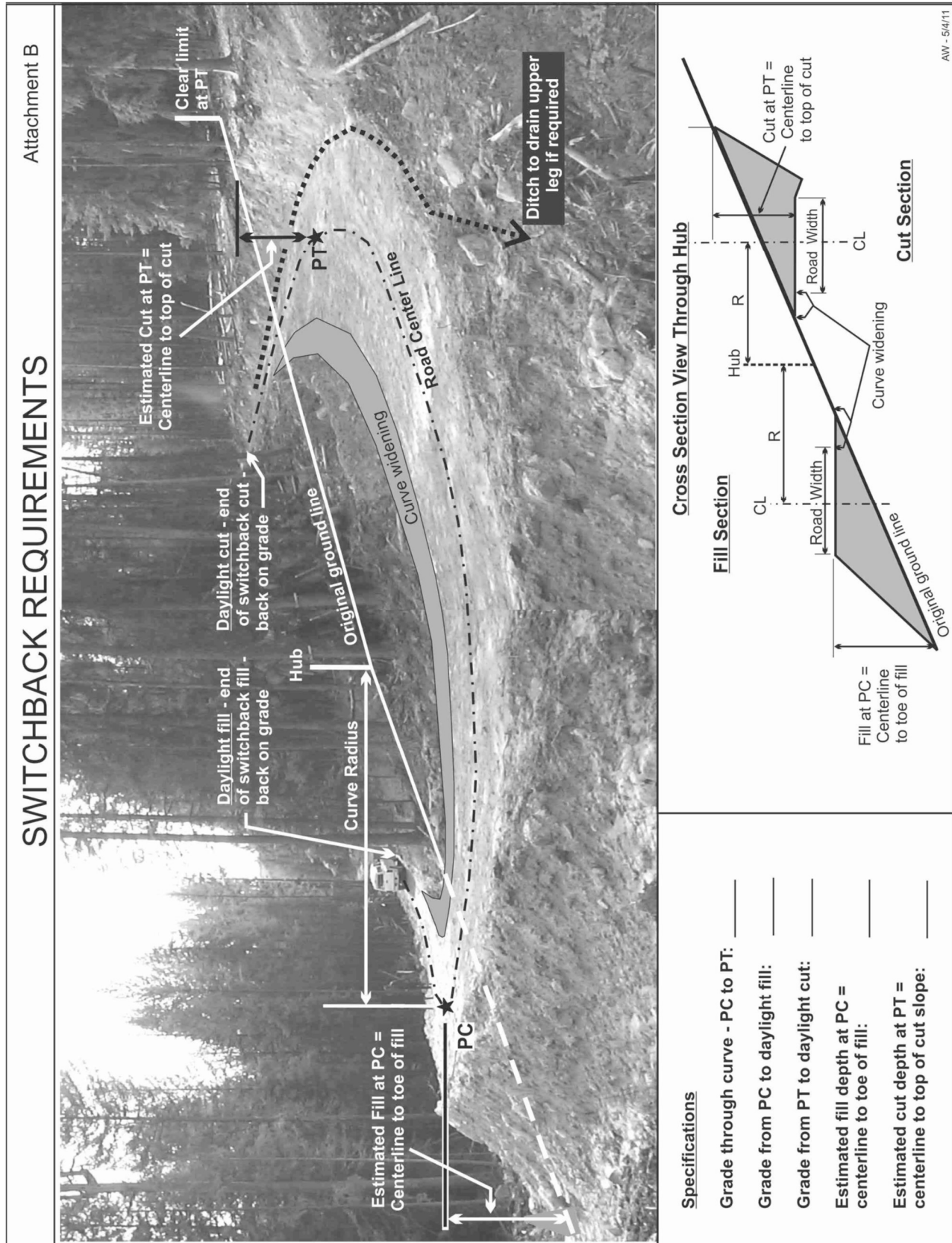
Minimum fill depth over top of pipe on uphill edge of road for pipes less than 36" diameter is 12" or 1/2 pipe diameter, whichever is greater. Minimum fill for larger pipes is 18".



Site Requirements

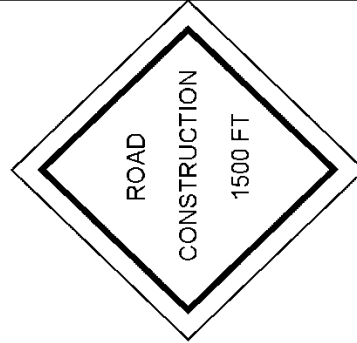
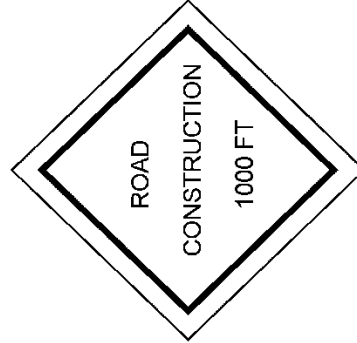
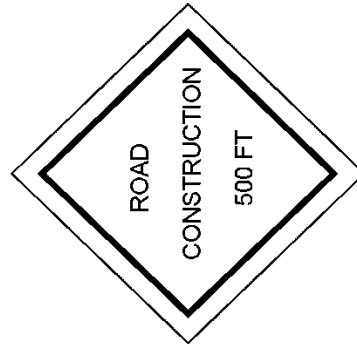
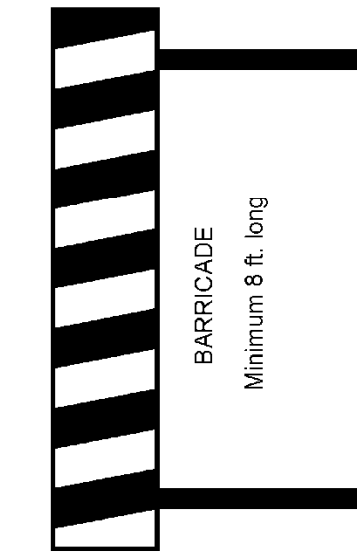
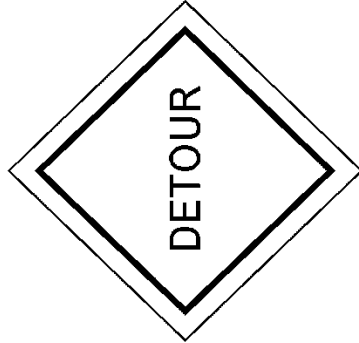


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AW - 5/4/11

Warning Sign Specifications



Size: 30"x 30"

Shape: Diamond

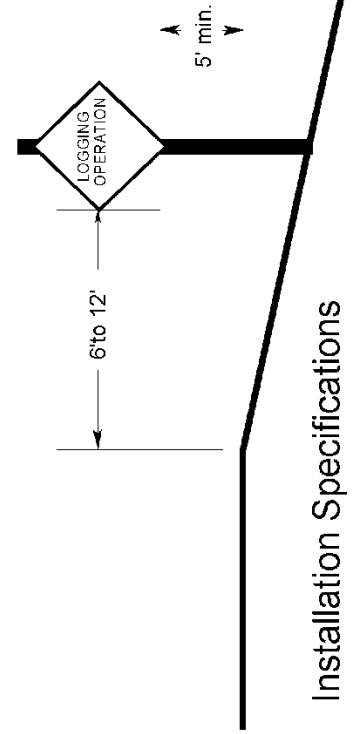
Color: Diamond: Orange and Black. Barricade: Red and Silver

Lettering: Minimum 4 inch letters. Standard Alphabet

Series C, 1/2 inch Border.

Reflective Background Required

Mounting: Posts or portable sign stands, clearly visible to drivers. Do not mount on trees.



Installation Specifications

WARNSIGN.WPG

FOREST FIRE RULES & REGULATIONS

These rules apply to all activities on all classified forest lands within Montana during the legal Forest Fire Season, including any extension thereof (see 76-5-103(3), 76-11-101, 76-13-102(7), and 76-13-109 MCA). Reference also ARM 36.10.119 through 132.

Related State statute numbers are provided as a reference.

RULE I - DEBRIS BURNING

1. The person conducting the burn shall obtain written authorization from the recognized fire protection agency before igniting any open fire during the legal forest fire season (required by 76-13-121 MCA). The recognized fire protection agency may deny, restrict, or rescind any authorization by notifying the person conducting the burn.
2. All burning must comply with the Department of Environmental Quality or State/county/local open burning regulations.
3. Written authorization is not required for campfires.

RULE II - CAMPFIRES

1. Campfires cannot be left unattended and must be completely extinguished (see 76-13-123 MCA).
2. All campfires must be constructed in cleared or bare areas, and not allowed to spread beyond the established ring, pit, grate, or container.
3. Anyone igniting a campfire is required to have fire tools listed in Rule VIII (4).

RULE III - RAILROADS AND POWERLINES

Railroad and powerline companies are required to prepare and annually update working agreements with recognized fire protection agencies. These agreements must stress safety and fire response procedures; and identify, remove, prevent, modify, abate, or correct forest fire hazards and risks associated with railroad and powerline company operations (see 69-14-721 MCA).

RULE IV - EQUIPMENT

1. All internal combustion engines must be equipped with an approved and effective spark-arresting system, as established in the National Wildfire Coordinating Group's Spark Arrester Guides. Spark-arresting devices must be marked, properly installed, and maintained in accordance with the Guides. The following vehicles are exempt:
 - a. automobiles and light trucks of less than 23,000 GVW when all exhaust gases pass through a properly installed and maintained exhaust system, baffle-type muffler, and tailpipe. Vehicles with glass-pack mufflers do not qualify for the exemption.
 - b. heavy-duty trucks of 23,000 GVW or greater, with a muffler and vertical stack exhaust system extending

above the cab.

- c. vehicles with other spark-arresting systems providing equal or increased effectiveness. Such vehicles must be inspected and have written authorization from the recognized fire protection agency.
2. Equipment used for commercial, ranching, or industrial activities must meet the fire extinguisher and tool requirements listed in Rule VIII (5).

RULE V - FLAMING AND GLOWING SUBSTANCES

1. All flaming and glowing substances, including but not limited to, lighted cigarettes, cigars, ashes, and matches, must be extinguished before being discarded (see 76-13-124 MCA).
2. Smoking is allowed only at areas free of flammable or combustible material. Examples of these areas include a graveled road or an enclosed vehicle.

RULE VI - FIREWORKS

Use of fireworks is prohibited on all classified forest lands unless written authorization is obtained from the recognized fire protection agency. Authorization will only be considered between June 24 and July 5, inclusive, to coincide with the legal dates for the sale of fireworks in Montana (see 50-37-106 MCA).

RULE VII - WILDLAND/URBAN INTERFACE

1. County governments without subdivision wild-fire protection standards are encouraged to establish standards for all new subdivisions by January 1, 2000.
2. The Fire Protection Guidelines for Wildland/Residential Interface Development (DSL/DOJ, 1993) is available for use to assist counties in the development of standards.

RULE VIII - FIRE EXTINGUISHERS AND FIREFIGHTING TOOLS

1. Chainsaw operators shall carry a fully charged and operable fire extinguisher, minimum-capacity 8-ounce liquid or 1-pound dry chemical, with a 4BC or higher rating.
2. Vehicles and equipment, mobile or stationary, with a combustion engine/motor used for commercial, ranching, or industrial activities must have one operable, dry-chemical fire extinguisher with a minimum 2-1/2 -pound capacity and

- 4BC or higher rating.
3. Chainsaw operators shall maintain one usable shovel at chainsaw-fueling sites.
4. All persons or parties igniting a campfire shall have one usable shovel and bucket. Persons igniting a barbecue need not have a shovel or bucket if the ashes are not removed from the container and the ashes or container are not placed on or near combustible material.
5. All commercial, ranching, or industrial activities must have:
 - a. one usable shovel or pulaski with each vehicle and equipment with an internal combustion engine/motor, mobile or stationary.
 - b. one backpack pump with each vehicle and with any equipment, used off road, mobile or stationary, with an internal combustion engine/motor, that cannot be used to build fireline and is being operated on combustible material.
6. Other types of firefighting tools that provide increased efficiency or effectiveness may be substituted by written authorization from the recognized fire-protection agency. For example, a Combi≡ firefighting tool may be substituted for a shovel or pulaski.

RULE IX - FOREST ACTIVITY RESTRICTIONS

In areas designated by public proclamation by the administrator, division of forestry, as areas of high fire hazard, the administrator may request all persons, firms, or corporations present or engaged in any activity in the areas to voluntarily cease operations or to adjust working hours to less critical periods of the day. In the event such a request is refused, the administrator may issue a written order directing compliance.

RULE X - FOREST CLOSURE

1. During periods of dangerous fire conditions, no person may enter or be upon those forest lands designated by public proclamation by the governor of the state of Montana as areas of dangerous fire hazard except under written permit issued by a recognized agency.
2. Permits to enter upon such areas during the closure may be issued by the recognized agency upon a showing of real need by the applicant. Permits may be issued to those persons having actual residence as a permanent or principal place of abode in the forest lands designated or to persons engaged in non-fire hazardous employment.
3. However, no permit may be required of persons engaged in either firefighting, fire prevention, or law enforcement who are engaged in official business.

RULE XI - CORRECTION OF HAZARD AND UNUSUAL CIRCUMSTANCES OR EVENTS

The recognized fire-protection agency may require identified wildland-fire hazards and/or risks be halted, prevented, abated, removed, disposed of, mitigated, or patrolled. This applies to public, private, nonprofit, commercial, and/or residential circumstances or events.

RULE XII - REQUEST FOR REVIEW

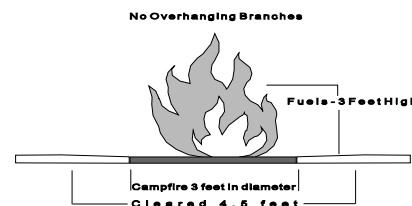
If any operator believes that in his case any requirement of a recognized agency is excessive, the operator may request the administrator, division of forestry, to review the requirements. If in the opinion of the administrator any or all are not necessary in the interest of public safety, he may make such changes as he considers advisable.

RULE XIII - DEFINITIONS

Backpack Pump: 5-gallon minimum; standard galvanized metal, fiberglass, or rubberized backpack water container with attached handpump; full of water at all times.

Bucket: Metal, plastic, canvas, or fiberglass container capable of holding at least one gallon of water. Motorcycle helmets qualify.

ACampfire≡ means a fire set for cooking, warming, or ceremonial



purposes; not more than 3 feet in diameter or height; void of overhanging branches; with all combustible material cleared at least 1-1/2 times the diameter of the fire; or a barbecue in a noncombustible container.

Combi Tool: A tool combining a shovel and pick.

Fireworks: As defined in 50-37-101 MCA.

Forested Land: As defined in 76-13-102 MCA and 36.10.101 ARM.

Hazard: Condition that promotes the ignition and/or spread of a wildland fire.

Open Fire: The burning of a bonfire, rubbish fire, or other fire in an outdoor location where fuel being burned is not contained in a closed incinerator, or outdoor fireplace. Barbecue pits and burn barrels are considered open fires and therefore require a burning permit (Rule I).

Pulaski: An ax with a medium size sharp grub hoe opposite the ax blade.

Recognized Fire-Protection Authority: An agency organized for the purpose of providing fire protection and recognized by the board as giving adequate fire protection to forest lands in accordance with rules adopted by the board.

Risk: Action or device that could cause a wildland fire to ignite.

Shovel: Vehicle, equipment, and chainsaw operator shovels will have a minimum overall length of 36 inches with a round pointed shovel head with a minimum width of 6 inches. Shovels required for campfires must be at least 24-inches in length with a pointed shovel head. Folding handles qualify.

RULE XIV - APPLICABILITY

The forest fire rules, Rule I through Rule XIII, (ARM 36.10.119 through 36.10.132) are in effect each year on classified forest land during the forest fire season May 1st to September 30th inclusive, or any legal extension thereof. Requirements pertaining to motor vehicles do not apply to those being operated solely on roads that are a part of federal or State maintained highway systems or on any paved public road.



WORKING IN BEAR HABITAT



12/03/12

Grizzly bear distribution is expanding in Montana and human/bear encounters are becoming more common. Working in bear habitat increases the likelihood of interactions with bears. It is important for contractors and their employees to be aware of steps that can be taken to minimize conflicts and how to react if an interaction occurs. This pamphlet provides information about bear behavior, preventive measures, and what to do in the event an encounter occurs. *This pamphlet is intended to provide information about possible ways of avoiding encounters with bears. It should not, however, be relied on as the sole means of doing so. In addition to adhering to the guidelines outlined in this document, you should always rely on your experience, training, education and judgment about the best, safest manner to avoid encounters with bears.*

ENCOUNTERS

- ▲ Stay calm and keep the animal in view, but avoid direct eye contact. Bears may interpret eye contact as a sign of aggression. Back away slowly. Never run from a bear unless you know you can reach safety. Determine whether the animal is a black bear or a grizzly bear.
- ▲ If the bear charges, stand your ground. Bears commonly "bluff charge," stopping within a few feet of a person, before fleeing in a different direction.
- ▲ Keep bear spray handy. Always have a canister of bear spray (at least eight ounces) on your belt. Make sure it is an EPA registered bear spray with 1 to 2% capsaicin and related capsaicinoids, has a spray duration of at least six seconds, and a range of 25 feet. Familiarize yourself with the directions for using the spray. Use it only if confronted by a charging bear. Spray toward the bear, aiming slightly downward.
- ▲ In the event that you have no bear spray, or it was ineffective and the charge is not a bluff, or the bear is exhibiting predatory behavior, you must change your approach. Signs of predatory behavior include: following, showing interest, coming into a tent, and unprovoked attacks. How you respond will depend on the species of bear attacking you. **Black bear and young grizzly attacks:** Always fight back. Jump up and down, wave your arms and yell. Try to look as large as possible. Never play dead – it makes you easier prey. Remember that black bears and small grizzlies can climb trees, so stay on the ground. **Mature grizzly attacks [particularly females with young]:** If a surprise encounter occurs or if bear spray is ineffective, drop to the ground and play dead. Lie on your stomach, clasp your hands behind your neck, and use your elbows and toes to avoid being rolled over. If the bear rolls you over, keep rolling until you land back on your stomach. Remain still and don't struggle or scream. A defensive bear will stop attacking once it feels the threat is gone. Don't move until you are sure the bear has left the area. **If the grizzly is exhibiting predatory behavior or comes into a tent at night, do all you can to escape or fight back.**
- ▲ If an encounter occurs, contact the DNRC forest officer immediately and notify Montana FWP.

JOB SITE PREVENTION

- ▲ Watch for bear signs. Signs include: tracks; droppings; recently overturned rocks or logs; logs torn apart; clawed, bitten or rubbed trees; bear trails; hair on tree bark; fresh diggings; and crushed vegetation. If you observe any of these signs, be aware that a bear may be frequenting the area. If camping, or stopping to eat your lunch, select a different area.
- ▲ When working or walking alone, make noise and carry bear spray. Bears don't like surprises, but will move on if they hear people approaching. Make noise, especially when approaching blind corners, dense shrubs and streams, and when walking into the wind. Maintain regular communication with co-workers.
- ▲ If camping on site, leave coolers, food and beverages inside campers or secured vehicles. If cooking over an open fire, do not discard food or grease in fire pits.
- ▲ Don't leave trash, groceries or animal feed in your vehicle for extended periods. Bears can, and do, pry open car and truck doors and break windows to get at food and other items they associate with food.
- ▲ Bears are attracted to petroleum based products. Keep all fuel and oil canisters in bear resistant containers. Bears have been known to damage hoses, oil filters and foam seats on heavy equipment. Dispose of empty containers promptly.

FOREST RESOURCES CONSERVATION AND SHORTAGE RELIEF ACT

USE OF TIMBER

(a) This contract is subject to the Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 USC 620, *et seq.*).

(b) Except for determined pursuant to public hearing to be surplus, unprocessed timber designated for harvest shall not be exported from the United States nor used in direct or indirect substitution for unprocessed timber exported from private lands by Purchaser or any person as defined in the Act (16 USC 620e).

(c) Timber in the following form will be considered unprocessed:

(i) Trees or portions of trees or other roundwood not processed to standards and specifications suitable for end product use;

(ii) Lumber, construction timbers, or cants intended for remanufacturing not meeting standards defined in the Act (16 USC 620e); and

(iii) Aspen or other pulpwood bolts exceeding 100 inches in length.

(d) Unless otherwise agreed in writing, unprocessed timber designated for harvest shall be delivered to a domestic processing facility and shall not be mixed with logs intended for export.

(e) Prior to award, during the life of this contract, and for a period of 3 years from Termination Date, Purchaser shall furnish to State, upon request, records showing the volume and geographic origin of unprocessed timber from private lands exported or sold for export by Purchaser or affiliates.

(f) Prior to delivering unprocessed timber designated for harvest to another party, Purchaser shall require each buyer, exchangee, or recipient to execute an acceptable agreement (Domestic Processing Form) that will:

(i) Identify the Federal origin of the timber;

(ii) Specify domestic processing for the timber involved;

(iii) Require the execution of such agreements between the parties to any subsequent transactions involving the timber;

(iv) Require that all hammer brands and/or yellow paint must remain on logs until they are either legally exported or domestically processed, whichever is applicable; and

(v) Otherwise comply with the requirements of the Act (16 USC 620d).

(g) No later than 10 days following the execution of any such agreement between Purchaser and another party, Purchaser shall furnish to the State a copy of each such agreement. Purchaser shall retain, for 3 years from Termination Date, the records of all sales, exchanges, or dispositions of all Timber designated for harvest.

(i) For breach of this Section, State may terminate this contract and take such other action as may be provided by statute or regulation, including the imposition of penalties. When terminated by the State under this Section, the State will not be liable for any Claim submitted by Purchaser relating to the termination.

Branding and Painting Requirements

For sawtimber products being delivered to manufacturing sites within Region 1 and 4 –

Ten (10) sawtimber logs on each loaded log truck, that are greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be painted with highway yellow paint and branded with a hammer brand identifying the timber sale from which the log was removed. Each paint spot must be not less than three (3) square inches in size. The brand and paint marks must be on the same end of the logs. The hammer brand will be assigned/registered by the State selling federal timber, in coordination with the appropriate Forest and Region.

For all sawtimber products being delivered to the IFG sawmill in Lewiston, ID-

Twenty (20) sawtimber logs on each loaded log truck, that are greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be painted with highway yellow paint and branded with a hammer brand identifying the timber sale from which the log was removed. The brand and paint marks must be on the same end of the logs. Each paint spot must be not less than three (3) square inches in size. All ponderosa pine >15 inches and all other species >30" will require double end painting and branding. The hammer brand will be assigned/registered by the State selling federal timber, in coordination with the appropriate Forest and Region.

For sawtimber products being delivered to manufacturing sites within Region 1 located in Powell, Granite, and all other counties located east of the continental divide –

Painting and Branding requirements will be waived for all sawtimber logs.

If purchasers are violating export laws or are not complying with the terms as identified above the State will require single end painting and branding of all Logs.

For sawtimber products being delivered to non-manufacturing sites within Region 1 and 4, including sort yards, reloads and collection sites –

All Sawtimber logs on each loaded log truck, that are greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be painted with highway yellow paint and a single-end brand identifying the timber sale from which the log was removed. The brand and paint marks must be on the same end of the logs. Each paint spot must be not less than three (3) square inches in size. The hammer brand will be assigned/registered by the State selling federal timber, in coordination with the appropriate Forest and Region.

For sawtimber products being delivered to Guy Bennett Lumber, port of Wilma, Clarkston Washington, -

At least twenty (20) logs on each loaded log truck, that are greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be painted with highway yellow paint and branded with a hammer brand identifying the timber sale from which the log was removed. The brand and paint marks must be on the same end of the logs. Each paint spot must be not less than three (3) square inches in size. The hammer brand will be assigned/registered by the State selling federal timber, in coordination with the appropriate Forest and Region.

For logs being hauled to other Regions, the painting and branding requirements will be the following:

For sawtimber products being hauled to manufacturing sites within Region 2 –

At least ten (10) sawtimber logs on each loaded log truck, that are greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be painted with highway yellow paint and branded with a hammer brand identifying the timber sale from which the log was removed. The brand and paint marks must be on the same end of the logs. Each paint spot must be not less than three (3) square inches in size. Or as identified by Region 2 given the location of where logs are being delivered.

Sawtimber products being hauled to manufacturing sites within Region 3 and Region 5 –

All sawtimber logs on each loaded log truck, greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be single end painted with highway yellow paint and branded with a hammer brand identifying the timber sale from which the log was removed. The brand and paint marks must be on the same end of the logs. Each paint spot must be not less than three (3) square inches in size. The hammer brand will be assigned/registered by the State selling federal timber, in coordination with the appropriate Forest and Region.

Sawtimber products being hauled to manufacturing sites within Region 6 –

At least twenty (20) logs on each loaded log truck, that are greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be painted with highway yellow paint and branded with a hammer brand identifying the timber sale from which the log was removed. The brand and paint marks must be on the same end of the logs. Each paint spot must be not less than three (3) square inches in size. The hammer brand will be assigned/registered by the State selling federal timber, in coordination with the appropriate Forest and Region.

Sawtimber products being delivered to port of Umatilla, Oregon, other ports east of the Cascades, all points west of the Cascades and any port of entry into British Columbia –

All sawtimber logs on each loaded log truck that are greater than seven (7) inches d.i.b that are eight (8) feet or more in length and one-third (1/3) or more sound will be double end painted with highway yellow paint and branded with a hammer brand identifying the timber sale from which the log was removed. The brand and paint marks must be on the same end of the logs.

Each paint spot must be not less than three (3) square inches in size. The hammer brand will be assigned/registered by the State selling federal timber, in coordination with the appropriate Forest and Region.

Log and Load Identification Operating Procedures.

- a. If mule trains or truck/pup combinations are used, each bunked load stands on its own and these requirements will apply to each unit. If a flatbed stake trailer is used, each bundle will be treated as a separate unit.
- b. Bucking of broken-ended logs on the sale area to furnish a branding surface will not be required.
- c. Purchasers of Idaho timber sales will have to register their brands with the State Board of Scaling Practices at Coeur d'Alene, Idaho. Timber purchasers already having brands registered with the State of Idaho may use these brands on Forest Service timber sales, when approved in advance by the State Forester. The same applies to purchasers of Montana sales destined to be processed in Idaho.
- d. Branding and painting of non-sawtimber logs is not required.

Sample-DOMESTIC PROCESSING OF TIMBER AGREEMENT
USE OF TIMBER

The Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 U.S.C. 620 et seq.) (Act) and the _____ Timber Sale on the _____ National Forest, dated: _____, between: _____ of _____ (Purchaser)

_____ and the _____ (enter state).
(Address)

acting through the Forest Service, United States Department of Agriculture, expressly requires that all unprocessed timber sold or otherwise transferred thereunder shall not be exported from the United States and shall receive domestic processing within the United States. The requirement for domestic processing does not apply to Port Orford cedar and Alaska yellow cedar. Within the terms and conditions of this contract, "unprocessed timber" is defined to mean: "Trees or portions of trees or other roundwood not processed to standards and specifications suitable for end product use and intended for remanufacture (36 CFR 223.186)".

The unprocessed timber originating from Federal lands which is being transferred under this agreement is branded with the following brand: _____

As a buyer of logs, bolts, or other roundwood originating from the sale area of said timber sale, (I) (We) acknowledge the Federal origin of such timber and agree to abide with the Act and by the terms and conditions of said contract with respect to the domestic processing of unprocessed timber. (I) (We) also agree that all hammer brands and/or yellow paint will not be removed from logs until they are domestically processed. In addition, (I) (We) agree to require the execution of another "Agreement" by any party we sell, exchange, or otherwise deliver such "unprocessed timber" to, as a condition of such a sale, exchange, or delivery, the "Agreement" shall (1) specify domestic processing for unprocessed timber, and (2) require that all hammer brands and/or yellow paint must remain on logs until they are domestically processed, and (3) require the execution of such agreements between the parties to any subsequent transactions involving unprocessed timber. And to submit a copy of each agreement within 10 calendar days of the transaction to the State from which the Federal timber originated.

(Name of Seller/Transferer)

(Name of Buyer/Transferee)

(Address)

(Address)

(Signature of Authorized Official)

(Signature of Authorized Official)

(Title)

(Title)

(Date)

(Date)

United States Department of Agriculture
U.S. Forest Service

Food/Wildlife Attractant Storage Order

Northern Continental Divide Ecosystem Area

Flathead, Lolo, Kootenai, Helena-Lewis and Clark, Beaverhead-Deerlodge National Forests
USDA, Forest Service, Region One

Pursuant to 16 U.S.C. §551 and Title 36 C.F.R. §261.50(a) the following acts are prohibited or restricted on the Flathead, Lolo, Kootenai, Beaverhead-Deerlodge, Helena – Lewis and Clark National Forests, Montana, within the Northern Continental Divide Ecosystem area.

PROHIBITIONS

1. Possessing or storing any food or refuse, except as specified in this Order. Exhibit B, which is hereby made part of this Order. 36 C.F.R. § 261.58(cc)
2. Possessing, storing, or transporting any bird, fish, or other animal or parts thereof, except as specified in this Order. Exhibit B, which is hereby made part of this Order. 36 C.F.R. § 261.58(s)

PURPOSE

The purpose of these restrictions is to reduce the likelihood of a human-to-bear conflict, compromising the safety for both humans and bears.

AREA RESTRICTED

Appropriate food storage or attendance, as outlined in this Order, is required on all National Forest System (NFS) lands within the Flathead, Lolo, Kootenai, and Helena – Lewis and Clark, except the Crazy Mountain Range, on the Belt Creek–White Sulphur Springs Ranger District and on all NFS lands within that portion of the Beaverhead-Deerlodge National Forest, Butte Ranger District, within the Elkhorn Mountain Range, as depicted on the map, Exhibit A, which is hereby made part of this Order.

IMPLEMENTATION

1. This Order will be in effect annually from March 1st to December 31st, through calendar year 2028.
2. Food/Wildlife Attractant Storage Special Order Prohibitions, Information and Definitions are attached as Exhibit B, and hereby made a part of this Order.

EXEMPTIONS

Pursuant to 36 C.F.R. §261.50(e), the following are exempt from this Order:

1. Persons with a special use authorization or other Forest Service authorization specifically exempting them from the effect of this Order. 36 C.F.R. §261.50(e)(1)
2. Any Federal or State officer placing baits to capture animals for research or management purposes as part of their official duties. 36 C.F.R. §261.50(e)(4)

PENALTY

Violation of these prohibitions is punishable by a fine of not more than \$5,000 for an individual or \$10,000 for an organization, or imprisonment for not more than 6 months, or both (16 U.S.C. § 551 and 18 U.S.C. §§ 3559, 3571, and 3581).

INFORMATION

Further information regarding this order may be obtained at any of the following Supervisors Offices: Flathead National Forest, located at 650 Wolfpack Way, Kalispell, MT, (406) 758-7502. Lolo National Forest, located at 24 Fort Missoula, Missoula, MT (406) 329-3750, or Helena-Lewis and Clark National Forest, located at 2880 Skyway Drive Helena, MT (406) 449-520, Kootenai National Forest, located at 31374 US Highway 2, Libby, MT (406) 293-6211, Beaverhead-Deerlodge National Forest, located at 420 Barrett St. Dillion, MT (406) 683-3900.

Done this 28th day of February 2023.

By: _____
Leanne Marten
Regional Forester
Northern Region, USDA Forest Service

Exhibit A

Northern Continental Divide Ecosystem Area, Food/Wildlife Attractant Storage Order Order # R1-2023-02

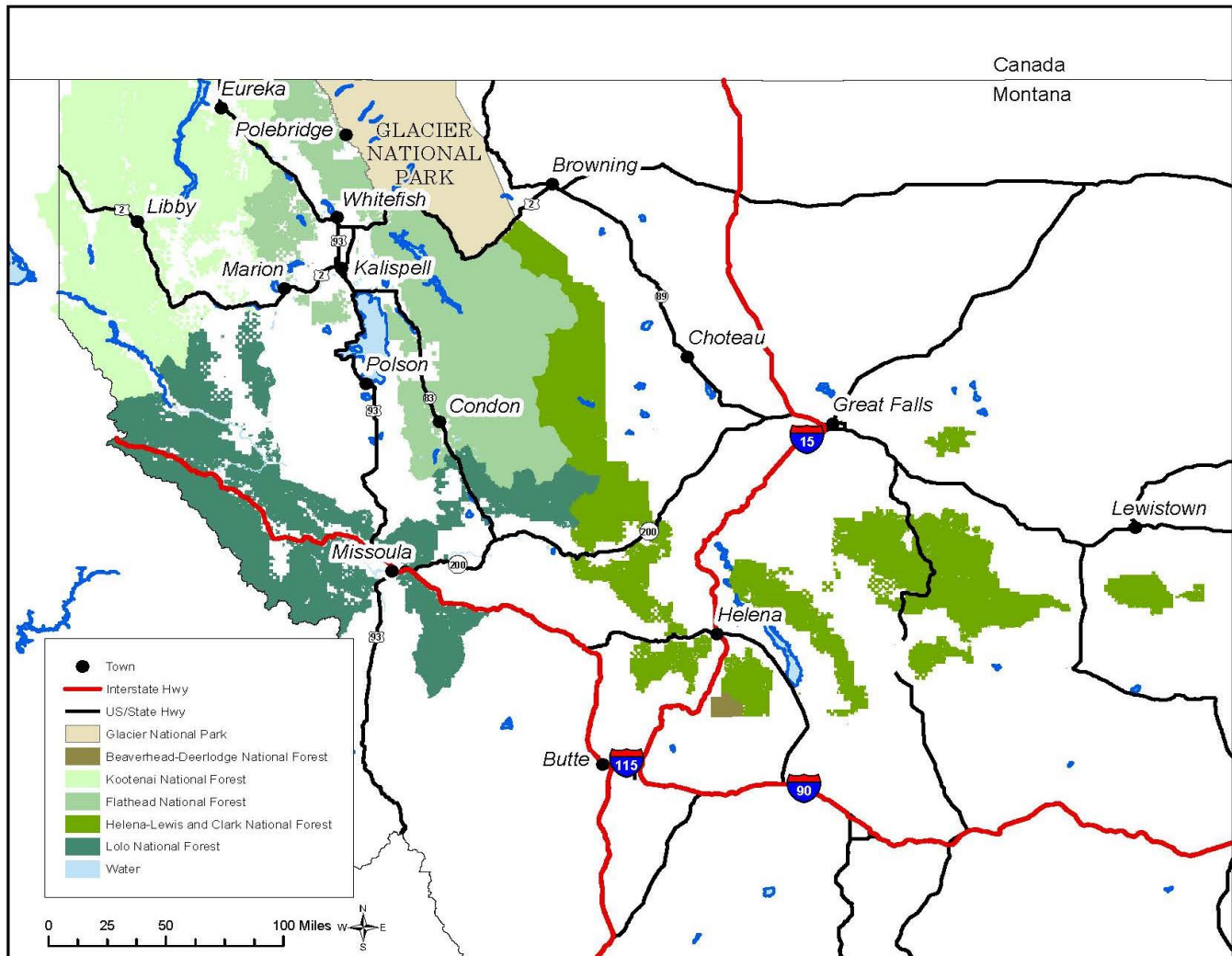


Exhibit B

Food/Wildlife Attractant Storage Special Order Prohibition, Information and Definitions

It Is Required That:

1. During daytime hours, all attractants, including human, pet, and livestock food (except baled or cubed hay without additives) and garbage shall be stored in a bear resistant manner when not being attended.
2. During nighttime hours, all attractants, including human, pet, and livestock food (except baled or cubed hay without additives) and garbage shall be stored in a bear resistant manner unless it is in immediate control, being prepared for eating, being eaten, being transported, or being prepared for storage, as defined herein.
3. Any harvested animal carcasses (including big game, birds, fish or other animal parts) that are within 1/2-mile of any camp or sleeping area or within 200 yards of a National Forest System Trail shall be stored in a bear-resistant manner by the responsible party (unless the carcass is being field dressed, transported, being prepared for eating, or being prepared for storage, as defined herein). If a wildlife carcass is within an attended camp during daytime hours it may be on the ground.
4. Attractants shall not be buried, discarded, or burned in an open campfire.
 - a. Leftover food or food waste products may be placed in an appropriate, sealed container and packed out with garbage.
 - b. Leftover food or other attractants may be burned in a contained stove fire.
 - c. Attractants may be placed into a suitable container (i.e. tin can) to prevent leaching into the ground and burned over an open campfire. Any remaining attractants unconsumed by burning shall be placed with other garbage and packed out.
5. The responsible party shall report the death and location of any livestock to a Forest Service Official within 24 hours of discovery. In some very remote areas, it may not be possible to meet the 24-hour requirement. In these special cases, the responsible party shall report to a Forest Official the discovery of any dead livestock within 48 hours.
6. Approved bear-resistant containers meet the following criteria: A container included in the most current Interagency Grizzly Bear Committee (IGBC) Certified Bear-Resistant Products list. A container not on the list may also be certified by the local District Ranger or their designated representative(s) if it is inspected and approved based on IGBC criteria.

Definitions

1. Attended: At least one adult person (attendee) is physically present within 100 feet who is awake and alert and in immediate control of attractants.
2. Attractant: Food as defined below and garbage from human, livestock, or pet foods. Also includes items such as soft drinks, alcoholic beverages, personal hygiene products, and empty food and beverage containers.
3. Food: Any nourishing substance, which includes human food or drink (canned, solid, or liquid), livestock feed (except baled or cubed hay without additives) and pet food.
4. Attendee: An adult, 18 years of age or older, in control of attractants.
5. Bear-resistant container: A container included in the most current Interagency Grizzly Bear Committee (IGBC) Certified Bear-Resistant Products list (<https://igbconline.org/>).
6. Bear-resistant manner: Any attractants, including food and garbage, must be stored in one of the following ways if unattended:
 - a. secured in a hard-sided Recreational Vehicle, vehicle trunk, cab, or trailer cab.
 - b. secured in a hard-sided dwelling or storage building.
 - c. suspended at least 10 feet up (from the bottom of the suspended item) and 4 feet out from any upright support, i.e. tree or pole.
 - d. stored in an approved bear-resistant container.
 - e. stored within an approved and operating electric fence.
 - f. stored in any combination of these methods; or
 - g. stored by methods other than those described in Section #6, a-f, that shall be approved in writing by the Forest Supervisor.
7. Contained fire stove: A metal stove that completely encloses the fire.
8. Daytime: 1/2 hour before sunrise to 1/2 hour after sunset.
9. Nighttime: 1/2 hour after sunset to 1/2 hour before sunrise.
10. Livestock: A domesticated animal, such as mule, horse, llama, or goat.
11. Wildlife carcass: The body, or any parts thereof, of any deceased wild animal, bird, or fish.

12. Approved electric fences will meet, as a minimum, the following specifications:

- a. **7 Strand Fence** (refer to Forest Service publication 9923-2321-MTDC, “Electric Fence Systems: Requirements for Meeting the NCDE Food Storage Special Order, 1999”, for more description of fence specifications and set-up):
 - (1) The fence will be set up as a “tight wire” fence. The wire will be tight and under tension, not loose or sagging.
 - (2) Minimum fence height 4 feet.
 - (3) Minimum post height 5 feet.
 - (4) Maximum spacing between posts 8 feet.
 - (5) Conductors (wire): Minimum of 7 wires, with 6-10 inch spacing between wires. Bottom wire must be within 2 inches of the ground. All wire must be smooth metal fence wire of at least 16 gauge or poly wire, except the top wire which may be poly tape of at least six strand stainless steel.
 - (6) The system will be set up to operate both as a ground wire return and a grounded system. The 2 top wires will be hot, with all other wires alternating hot and ground. The minimum length ground rod is 2 feet.
 - (7) Fence charger (minimum): (1) energizer output of 0.7 joules; (2) tested peak output of 5000 volts; (3) 40 shocks per minute. User must be able to test electrical output in the field.
 - (8) The charger must be made inaccessible to disturbance from a bear. The charger may be stored within the interior of the fence or located a minimum of 10 feet above ground.
 - (9) Minimum distance between fence and items enclosed by fence.....3 feet.
- b. **Portable Electric Mesh Fence** (refer to Forest Service publication 0723- 2305-MTDC, “Specifications for Portable Electric Fence Systems as Potential Alternative Methods for Food Storage, 2007”, for more description of fence specifications and set-up):
 - (1) Portable electric mesh fence shall not be left in any location for more than 16 days.
 - (2) Minimum fence height.....33 inches.
 - (3) Minimum post length.....42 inches.

- (4) Post construction required to be polyethylene with metal spike on bottom.
- (5) Minimum of 3 strands of stainless-steel wire per horizontal wire.
- (6) Minimum number of horizontal wires.....8.
- (7) Horizontal opening in mesh required to be less than 12 inches.
- (8) Minimum length of ground rod required to be 1 foot and earth ground is mandatory.
- (9) Fence charger (minimum): (1) energizer output of 0.11 joules; (2) Minimum tested peak output voltage (on every hot conductor, with no load other than the fence) required to be 5,000 volts. (3) Minimum pulse duration (with a 10,000-ohm load applied) required to be 0.05 milliseconds: (4) Minimum shocks per minute....35.
User must be able to test electrical output in the field.
- (10) Minimum distance between fence and items inside.....1½ feet.
- (11) Readable placard indicating fence is electrified is required.
- (12) Maximum fence length.....60 feet.
- (13) Minimum of 2 LED lights.

Joint Application for Proposed Work in Montana's Streams, Wetlands, Floodplains, and Other Waterbodies

CD/Agency Use Only

Application Number: Date Received:
Stream or Waterbody:
Date Accepted: Initials: Date Forwarded to FWP:

This section is for all Department of Transportation and SPA 124 Permits (government projects)

Project Name: GNA Rice (Timber Sale)
Control Number: Contract Letting Date:
MEPA/NEPA Compliance: ☒ Yes ☐ No If yes, #C5 of this application does not apply.

Applicant Use

This is a standardized application to apply for one or all local, state, or federal permits listed below. Check the box(s) for each permit being applied for.

- Refer to the instructions to determine which permits apply to your project and submit an application to each applicable agency.
- Incomplete applications will result in a delay of application processing.
- The applicant is responsible for obtaining all necessary permits and landowner permission before beginning work.
- Other laws may apply.

	Permit	Agency	Required Application Sections:	Fee
<input type="checkbox"/>	NSLPA 310 Permit	Local Conservation District	A-E and G	No fee
<input checked="" type="checkbox"/>	SPA 124 Permit	Department of Fish, Wildlife & Parks (FWP)	A-E and G	No fee
<input type="checkbox"/>	318 Authorization 401 Certification	Department of Environmental Quality (DEQ)	A-E and G	\$250 (318); \$400-\$20,000 (401)
<input type="checkbox"/>	Navigable Rivers Land Use License, Lease, or Easement	Department of Natural Resources and Conservation (DNRC), Trust Lands Management Division	A-E and G	\$50, plus additional fee
<input type="checkbox"/>	Section 404 Permit, Section 10 Permit	U.S. Army Corps of Engineers (USACE)	A-G and F1-10	Varied (\$0-\$100)
<input type="checkbox"/>	Floodplain Permit	Local Floodplain Administrator	A-G	Varied (\$25-\$500+)

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A. APPLICANT INFORMATION

APPLICANT (*party responsible for project*) DNRC – Good Neighbor Authority, Southwest Land Office

Has the landowner consented to the project? ☐ Yes ☐ No

Mailing Address: 1401 27th Ave. City, State: Missoula, MT Zip: 59804

Physical Address: 1401 27th Ave. City, State: Missoula, MT Zip: 59804

Daytime Phone: 406-531-0265 Email: brian.cannata@mt.gov

LANDOWNER NAME (*if different from applicant*) United States Forest Service – Lolo National Forest

Mailing Address: 24 Fort Missoula Rd. City, State: Missoula, MT Zip: 59804

Physical Address: 24 Fort Missoula Rd. City, State: Missoula, MT Zip: 59804

Daytime Phone: Email:

CONTRACTOR/COMPANY NAME (*if applicable*)

Mailing Address: City, State: Zip:

Physical Address: City, State: Zip:

Daytime Phone: Email:

B. PROJECT SITE INFORMATION

Refer to section B1 of the instructions

1. NAME OF STREAM OR WATERBODY at project location: Unnamed Class 2 Stream

Project Address/Location: Nearest Town: Seeley Lake

County: Missoula Geocode:

Township: 17N Range: 15W Section: 22 ¼ Section: SW

Latitude: 47.123651 N Longitude: 113.301291 W

Driving directions or other instructions needed for finding the site: Following Hwy 83 North through Seeley Lake, turn right on Rice Ridge Rd. (FR 720). Follow Rice Ridge Rd. for approximately 1 mile, then turn left onto FR 36428 and follow for approximately 1500 ft. to the subject site.

Refer to section B2 of the instructions

2. Is the proposed activity within **SAGE GROUSE** areas designated as general, connected, or core habitat?

☐ Yes ☒ No Attach consultation letter if required.

Refer to section B3 of the instructions

3. Is this a **STATE NAVIGABLE WATERWAY**? The state owns the beds of certain navigable waterways.

☐ Yes ☒ No If yes, send a copy of this application to the appropriate DNRC land office.

Refer to section B4 of the instructions

4. **WHAT IS THE CURRENT CONDITION** of the proposed project site? What vegetation is present? Describe the existing bank condition, bank slope, height, nearby structures, and wetlands.

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The subject site is a reclaimed Class 2 stream crossing on an existing road. Banks are gently sloping and well-vegetated with non-native grasses, native forbs and shrubs, and sapling-size Douglas Fir. The stream channel is well defined with seasonal flow (less than 6 months) initiating from a wetland located approximately 1,300 feet upstream from the subject site. Bank-full width above the inlet ranges between 1-3 feet and is consistent to the wetland area. Base flow depth is very minimal and difficult to determine given the seasonality of the stream. Stream gradient is approximately 7%-12% above and below the subject site. There is channel connectivity to Seeley Lake near Tamaracks Resort.

C. PROJECT ACTIVITY INFORMATION

Refer to section C1 of the instructions

1. TYPE OF PROJECT (check all that apply)

- ☐ **Agricultural and Irrigation Projects:** Diversions, Headgates, Flumes, Riparian Fencing, Ditches, etc.
- ☐ **Buildings/Structures:** Accessory Structures, Manufactured Homes, Residential or Commercial Buildings, etc.
- ☐ **Channel/Bank Projects:** Stabilization, Restoration, Alteration, Dredging, Fish Habitat, Vegetation or Tree Removal, or any other work that modifies existing channels or banks.
- ☒ **Crossing/Roads:** Bridge, Culvert, Fords, Road Work, Temporary Access, or any project that crosses over or under a stream or channel.
- ☐ **Mining Projects:** All mining related activities including, Placer Mining, Aggregate Mining, etc.
- ☐ **Recreation Related Projects:** Boat Ramps, Docks, Marinas, etc.
- ☐ **Other Projects:** Cisterns, Debris Removal, Excavation/Pit/Pond, Placement of Fill, Drilling or Directional Boring, Utilities, Wetland Alteration. Any other project type not listed here.

Refer to section C2 of the instructions

2. Is this application for an **ANNUAL MAINTENANCE PERMIT**? ☐ Yes ☒ No

If yes, attach an annual plan of operations to this application

Refer to section C3 of the instructions

3. Why is this project necessary? State the **PURPOSE OR GOAL** of the proposed project.

This portion of FR 36428 is integral to timber harvesting and fuels reduction activities in the western portion of the sale area and necessary for transporting equipment and forest products to market. Approximately 240 acres are tributary to the crossing. The culvert installation would be concurrent with other forest road maintenance and improvements in the area. Removal would occur during other road reclamation activities prior to the sale purchaser's contract termination date.

Refer to section C4 of the Instructions

4. Provide a brief description of the **PROPOSED PROJECT PLAN** and how it will be accomplished.

The proposed project will install an 18"x 44' PVC pipe at subject location. An excavator of suitable size would be used for the installation. The install will occur when the stream channel at the subject location is dry (late-

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summer/early fall) under no-flow conditions. Native fill material would be used taken from nearby road reconstruction activities. Approximately 110 cubic yards or 11 dump truck loads of material would be placed over the top of the culvert to adequately fill the crossing. Erosion control measures will be taken during both the installation and removal of the culvert to mitigate short and long term sedimentation concerns.

Refer to section C5 of the instructions

5. What **OTHER ALTERNATIVES** were considered to accomplish the stated purpose of the objective? Why was the proposed alternative selected?

Refer to section C6 of the instructions

6. What are the **NATURAL RESOURCE BENEFITS** or **POTENTIAL IMPACTS**? Please complete the information requested below to the best of your ability:

6a. Explain any temporary or permanent changes in erosion, sedimentation, turbidity, or increases of potential contaminants. What will be done to minimize impacts?

Temporary changes in erosion would be limited to disturbed stream bed and banks necessary to accommodate the new 18" Plastice pipe. Erosion would be mitigated by installing straw wattles along the fill slopes above the inlet and outlet. Additional wattles would be placed horizontally along raw fill material near the outlet. The Inlet and outlet of the culvert would be rock armored. Native grass seed and straw mulch would be applied to disturbed areas and raw fill material following installation. The running surface over the crossing would be outsloped. Drain dips above and below the crossing would be constructed and an earthen berm installed along the outside shoulder of the road and crossing. The berm would extend between the dips and capture road run-off. The lower dip would be improved with a slash filter windrow backed by a permanent wire-backed silt fence to help mitigate sediment delivery to the stream.

Culvert removal activities would be timed for late-summer, early-fall when there is no surface flow in the stream at the crossing. The majority of fill material removed would be repurposed for road reclamation work near the area it was originally sourced. Any remaining spoils would be spread evenly over the surface of the existing road below the crossing. The road would be reclaimed with slash and grass seed. The crossing would be reclaimed by installing wattles horizontally above the stream channel on 4' intervals with an application of native grass seed and straw mulch over all disturbed areas proximate to the crossing.

6b. Will the project cause temporary or permanent impacts to fish and/or aquatic habitat? What will be done to protect the fisheries and habitat?

No. The installation will take place during no flow, dry conditions. The stream does not support fish and has little aquatic habitat at or below the culvert.

6c. What will be done to minimize temporary or permanent impacts to the floodplain, wetlands, or riparian habitat?

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Activities will be performed during conditions with no flow in the stream to reduce any temporary or permanent impact to the riparian habitat.

6d. What efforts will be made to decrease flooding potential upstream and downstream of the project?

Potential flooding as a part of this project is not a concern.

6e. Explain any potential temporary or permanent changes to the water flow or to the bed and banks of the waterbody. What will be done to minimize those changes?

Temporary changes to the stream bed and banks would be necessary to accommodate the 18" culvert. Changes would occur only at the site of the culvert installation/removal. The area will be reclaimed to a natural gradient less than 12% and the banks above the stream channel pulled back to slopes less than 35%.

6f. How will existing vegetation be protected and its removal minimized? Explain how the site will be revegetated, including weed control plans.

In an effort to minimize damage to surrounding vegetation, activities and disturbance will be concentrated to the running surface of the road during the course of installation and removal. Equipment will be washed and inspected by the Forest Officer prior to use to help prevent the spread of noxious weeds. Weed abatement prior to and following the installation will occur as part of the timber sale performance activities. Disturbed areas will be grass seeded with a native seed mix immediately following installation and removal of the culvert.

D. CONSTRUCTION DETAILS

Refer to section D1 of the instructions

1. Proposed **CONSTRUCTION DATES:** Start: 7/15/26 (install);7/15/30 (removal) End: 11/1/26 (install); 11/1/30 (removal)

Is any portion of the work already completed? ☐ Yes ☒ No If yes, please describe previously completed work:

Refer to section D2 of the instructions

2. **PROJECT DIMENSIONS.** Describe the length and width of the project.

The proposed activity will effect an area approximately 44ft. in length and 27ft. in width. The majority of the disturbance will occur within the road prism and would extend beyond the road prism the the extent necessary to accomodate the inlet and outlet of the new culvert. This would be approximately 4 feet in length and 4 feet in width at the inlet and outlet.

Refer to section D3 of the instructions

3. **MATERIALS.** Provide the total quantity and source of materials proposed to be used or removed. Note: this may be modified during the permitting process, therefore it is recommended that you do not purchase materials until all permits are issued. List soil/fill type, cubic yards and source, culvert size, rip-rap size, and any other materials to be used or removed on the project.

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Cubic yards/ Linear Feet

Size and Type

Source

110 cubic yards of native fill material. 9"x200' straw wattle. 10 lbs of native mix grass seed. 4 bails of weed-free straw.

18" x 44' Plastic culvert

Fill material will be borrowed from adjacent road reconstruction site. Culvert and wattles will be newly purchased. Straw bails will be purchased from local retailer.

Refer to section D4 of the Instructions

4. EQUIPMENT. List all equipment that will be used for this project. How will the equipment be used on the bank and/or in the water? Note: all equipment used in the water must be **CLEANED, DRAINED, AND DRY.**

Excavator of suitable size to remove and install plastic culvert. Whacker-packer to compact road base material below and around culvert location. Road grader to construct outside berm and improve running surface of road over crossing.

Will equipment from out of state be used?

☐ Yes ☒ No ☐ Unknown

Will the equipment cross west over the Continental Divide to the project site?

☐ Yes ☐ No ☒ Unknown

Will equipment enter the Flathead Basin?

☐ Yes ☒ No ☐ Unknown

E. REQUIRED ATTACHMENTS

1. Plans and/or drawings of the proposed project should include:
 - a. Plan/Aerial View
 - b. An elevation or cross-section view
 - c. Dimensions of the project (height, width, depth in linear feet)
 - d. Location of storage stockpile materials and location of fill or excavation sites
 - e. Drainage facilities
 - f. Location of existing/proposed structures, such as buildings, utilities, roads or, bridges
 - g. An arrow indicating north
 - h. Site photos
2. Attach a vicinity map or a sketch, which includes: The water body where the project is located, roads, tributaries, and other landmarks. Plan an "X" on the project location. Provide written directions to the site. This is a plan view (looking at the project from above).
3. If requesting a Maintenance 310 Permit, attach an Annual Plan of Operation.
4. Attach an Aquatic Resource Map, which documents the location and boundary of all waters of the U.S. in the project vicinity and includes wetlands and other special aquatic sites. Show the location of the ordinary high-water mark of streams or waterbodies if requesting a Section 404 or Section 10 Permit. Include the ordinary high-water mark delineation on plans or drawings and/or a separate wetland delineation.

F. ADDITIONAL INFORMATION FOR US ARMY CORPS OF ENGINEERS (USACE) SECTION 404, SECTION 10, AND FLOODPLAIN PERMITS

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Refer to section F of the instructions

Section F should only be filled out by those needing Section 404, Section 10, and/or Floodplain permits.

Applicants applying for Section 404 and/or Section 10 permits must complete questions F1-10. For questions on Section 404 and/or Section 10 permits, contact the USACE by telephone at 406-441-1375 or by email at montana.reg@usace.army.mil.

Applicants applying for Floodplain permits must complete all of Section F.

Refer to section F1 of the instructions

1. Does the proposed activity and/or property have permitting history with USACE? If yes, and available, provide the USACE project number(s) associated with the previous permits, including no permit required letters and approved jurisdictional determinations.

Refer to section F2 of the instructions

2. Identify the specific **Nationwide Permit(s)** that you want to use to authorize the proposed activity.

Refer to section F3 of the instructions

3. Provide the footprint of impacts and the quantity of materials proposed to be placed in wetlands and/or below the ordinary high-water mark in waters of the United States. Delineations are required of wetland and other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.

3a. What is the length and width (or square footage/acreage) for each impact occurring within the waters of the United States, including wetlands?

3b. How many cubic yards of fill material will be placed below the ordinary high-water mark, in a wetland, stream, or other waters of the United States?

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Refer to section F4 of the instructions

4. How will the proposed project avoid or minimize **impacts to waters of the United States**? Attach additional sheets if necessary.

Refer to section F5 of the instructions

5. Will the project impact(s) be equal to or greater than 0.10 acre of wetland and/or 0.03 acre of stream or other waters? If yes, describe how the applicant is going to **compensate (mitigation bank, in-lieu fee program, or permittee responsible)** for these unavoidable impacts to waters of the United States.

Refer to section F6 of the instructions

6. Is the proposed activity within any component of the **National Wild and Scenic Rivers System**, or a river that has been officially designated by Congress as a “**study river**?” ☐ Yes ☐ No

Refer to section F7 of the instructions

7. Does this activity require permission from the **USACE because it will alter or temporarily or permanently occupy or use a USACE authorized civil works project**? (Examples include USACE owned levees, Fort Peck Dam, and others). ☐ Yes ☐ No

Refer to section F8 of the instructions

8. List the **ENDANGERED AND THREATENED SPECIES** and **CRITICAL HABITAT(S)** that might be present in the project location.

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Refer to section F9 of the instructions

9. List any **HISTORIC PROPERTY(S)** that are listed, determined to be eligible or are potentially eligible (over 50 years old) for listing on the National Register of Historic Places.

Refer to section F10 of the instructions

10. List the **NAMES AND ADDRESS OF LANDOWNERS** adjacent to the project site. This includes properties to and across from the project site. Note: Some floodplain communities require certified adjoining landowner lists.

NAME/ADDRESS OF **Adjacent Landowner**:

NAME/ADDRESS OF **Adjacent Landowner**:

NAME/ADDRESS OF **Adjacent Landowner**:

NAME/ADDRESS OF **Adjacent Landowner**:

Refer to section F11 of the instructions

12. Floodplain Map Number:

Refer to section F11 of the instructions

13. Does this project comply with local planning or zoning regulations? ☐ Yes ☐ No

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G. Signature Requirements

Refer to section G of the instructions

Some agencies require original signatures for an application to be considered complete. After completing the application form, make the required number of copies and sign each copy. Send the copies with original signatures and additional information required directly to each applicable agency.

The statements contained in this application are true and correct. The applicant possesses the authority to undertake the work described herein or is acting as the duly authorized agent of the landowner. The applicant understands that the granting of a permit does not include landowner permission to access land or construct a project. Inspections of the project site after notice by inspection authorities are hereby authorized.

**By signing or typing my name on the signature line below, I hereby swear and affirm that I am the applicant for this project and am responsible for all information contained in this application.*

*APPLICANT (party responsible for project)

Brian Cannata – GNA Forester, DNRC Southwest
Land Office

Print Name

Signature of Applicant

Date

LANDOWNER (If different from applicant)

Kevin Doherty – Seeley Lake Dist. Ranger, Lolo NF

Print Name

Signature of Landowner

CONTRACTOR (If applicable. Contact agency to determine if contractor signature is required)

Print Name of Primary Contract

Signature of Contractor

Date

Company/Entity Name (If applicable)