



Oregon Department of Forestry
 2600 State St Salem OR 97310
 PART III: EXHIBITS

EXHIBIT B
TIMBER SALE OPERATIONS PLAN
 (See page 2 for instructions)

Date Received by State: _____

(5) State Brand Information (Complete)

(1) Contract Number: SW-341-2023-GF9219-01

(2) Sale Name: Bits GNA

(3) Contract Expiration Date: 03/31/2026

(4) Purchaser Name: _____

(6) State Representatives:

<u>Name</u>	<u>Circle One</u>	<u>Phone No.</u>	<u>Cell No.</u>	<u>Alt Phone</u>
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			

(7) Purchaser Representatives:

<u>Name</u>	<u>Circle One</u>	<u>Phone No.</u>	<u>Cell No.</u>	<u>Alt Phone</u>
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			

(8) Name of Subcontractors and Start Dates:

<u>Project No.</u>	<u>Subcontractor Name.</u>	<u>Start Date</u>	<u>Completion Date</u>	<u>Cell No.</u>	<u>Alt Phone</u>

	<u>Subcontractor Name.</u>	<u>Start Date</u>	<u>Cell No.</u>	<u>Alt Phone</u>
FELLING				
YARDING				

(9) Comments:

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

Oregon Department of Forestry

2600 State St Salem OR 97310

PART III: EXHIBITS

EXHIBIT B

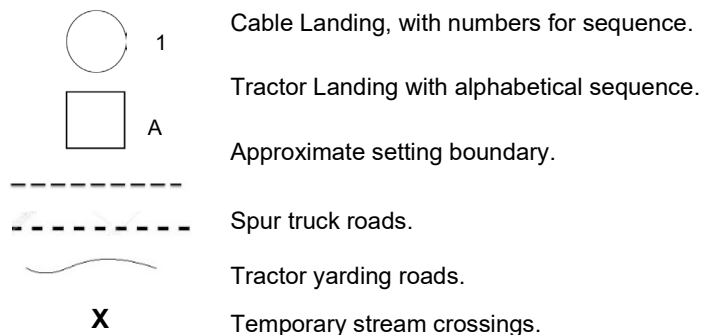
INSTRUCTION SHEET FOR OPERATIONS PLAN

SUBMIT ONE COPY OF PLAN STATE

Operations shall be limited to the work shown in the plan until a revised plan or supplemental plan is submitted covering additional work. Compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act including without limitation PURCHASER'S independent obligation to avoid take of a T&E species and PURCHASER'S obligation to comply with terms and conditions of any incidental take Permit(s) that include required minimization and mitigation measures in any applicable Habitat Conservation Plan. If STATE has prepared a required Forest Practices Act (FPA) "Written Plan" for operations, PURCHASER shall comply with all provisions of the Written Plan.

Explanation of Item No.(from Page 1)

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

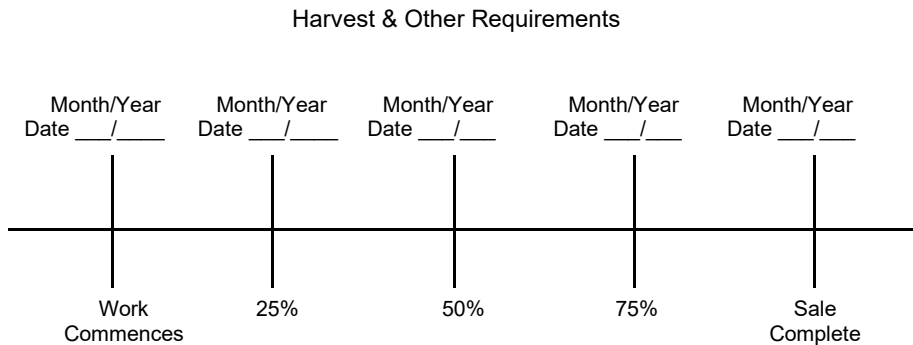
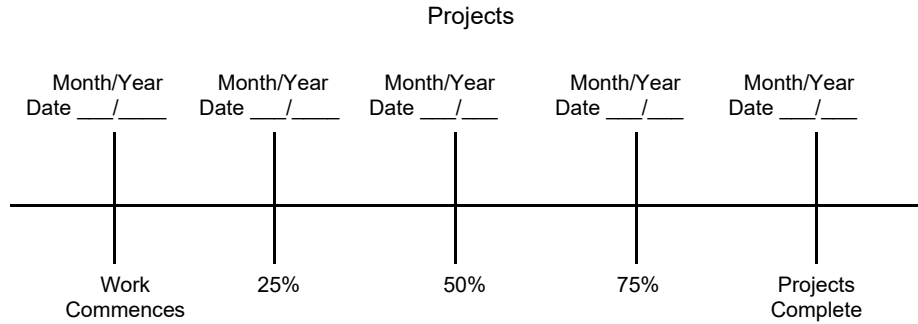




Oregon Department of Forestry
 2600 State St Salem OR 97310
 PART III: EXHIBITS
EXHIBIT B
OPERATIONS PLAN

Completion Timeline

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



The Federal Endangered Species Act (ESA) prohibits a person from taking any federally listed threatened or endangered species. Taking under the federal ESA may include alteration of habitat. STATE's approval of this plan does not certify that PURCHASER's operation under the plan is lawful under the federal ESA or that the plan is consistent with the terms and conditions of any applicable incidental take Permit(s) including any required minimization and mitigation measures proposed in the applicable Habitat Conservation Plan. As provided in the timber sale contract, PURCHASER's must comply with all applicable state, federal, and local laws, including without limitation any Permit(s) issued thereunder.

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

APPROVED; Date: _____

SUBMITTED BY:
PURCHASER

STATE OF OREGON - DEPARTMENT OF
FORESTRY

Title _____

Title _____



Oregon Department of Forestry
EXHIBIT C - SAWMILL GRADE (WESTSIDE SCALE)
SCALING INSTRUCTIONS - LOCATION APPROVAL - BRAND INFORMATION
 Southwest Oregon - SOA

(1) ORIGINAL REGISTRATION Date _____
 REVISION NUMBER 000 Date _____
 CANCELLATION Date _____

(2) TO: _____
 (Third Party Scaling Organization)

(3) FROM: Southwest Phone (541) 474-3152
Oregon
 (State Forestry District)
 Address: 5375 MONUMENT DR.
GRANT PASS, OR 97526

(4) PURCHASER: _____
 Mailing Address: _____

 Phone Number: _____

(5) MINIMUM SCALING SPECIFICATIONS	
SPECIES	MINIMUM NET VOLUME
Conifers	10
Hardwoods	10

*Apply minimum volume test to whole logs over 40' Westside

(6) WESTSIDE SCALE: _____
 Use Region 6 actual taper rule. Logs over 40'.

(7) Weight Scale Sample YES NO

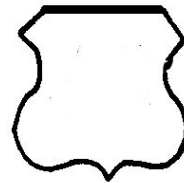
(8) APPROVED SCALING LOCATIONS <small>(as shown on the ODF Approved Locations web-site)</small>	Species	Yard	Truck	Weight

(9) **SALE NAME:** Bits GNA
COUNTY: Linn

(10) **STATE CONTRACT NUMBER:**
SW-341-2023-GF9219-01

(11) **STATE BRAND REGISTRATION NUMBER:**

(12) **STATE BRAND INFORMATION:**



(13) **PAINT REQUIRED:** YES
COLOR: Orange

(14) SPECIAL REQUESTS (Check applicable)	
PEELABLE CULL (all species).....	<input checked="" type="checkbox"/>
NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE	<input checked="" type="checkbox"/>
ADD-BACK VOLUME - Deductions due to delay...	<input checked="" type="checkbox"/>
OTHER :	

(15) **REMARKS:**

Operator's Name (Optional inclusion by District): _____

(16) **SIGNATURES:**

 Purchaser or Authorized Representative Date

 State Forester Representative Date

 State Forester Representative PRINT NAME



Oregon Department of Forestry
EXHIBIT C - SAWMILL GRADE
INSTRUCTIONS FOR EXHIBIT C
Southwest Oregon - SOA

(1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.

(2) Designate Third Party Scaling Organization (TPSO).

Columbia River Log Scaling & Grading Bureau
P.O.Box 7002, Eugene, OR 97401
Phone: (541) 342-6007 Fax: (541) 342-2631
Email: services@crls.com

Pacific Rim Log Scaling Bureau, Inc.
8288 28th Court North East, Lacey, WA 98516
Phone: (360) 528-8710 Fax: (360) 528-8718
Email: office@prlsb.com

Mountain Western Log Scaling & Grading Bureau
P.O.Box 580, Roseburg, OR 97470
Phone: (541) 673-5571 Fax: (541) 672-6381
Email: info@mwlsgb.com

Yamhill Log Scaling & Grading Bureau
P.O.Box 709, Forest Grove, OR 97116
Phone: (503) 359-4474 Fax: (503) 359-4476
Email: yamhilllog@frontier.com

Northwest Log Scalpers Inc.
6137 NE 63rd St, Vancouver, WA, 98661
Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213
Email: info@nwlogscalpers.com

(3) State District office, address and phone.

(4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.

(5) Minimum Scaling Specifications.

(6) Westside - Region 6 actual taper segment scale. Check Yes or No. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs - All Species - State Forestry Department Scaling Practices (Westside).

(7) Weight Scale Sample - Check box if sale is to be a Weight Scale Sample. All specifics for handling, scaling and processing will be attached or explained in the Remarks section item (15).

(8) Show scaling locations only applicable to TPSO. Location name should appear as it does on the ODF Approved Scaling Location web site: https://apps.odf.oregon.gov/Divisions/management/asset_management/scalinglocation.asp Locations with scaling and processing directions specific to their location should be on a separate form. Species should be identified if not capable of receiving "all" species. Check appropriate box for either: yard, truck scale, or weight. Refer to the web site listed above for the locations approval status.

(9) Enter sale name and county.

(10) Enter sale Contract number.

(11) Enter Oregon's State Brand Registry Number (**REQUIRED**).

(12) Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section item (15).

(13) Check yes for Paint Required and designate "Orange" for color. Non required removal volumes may sometimes require blue paint.

(14) Special Requests. These are requests that will be applied to ODF timber sales. All boxes applicable to the timber sales designated in the Exhibit C form must be "marked". If "Other" is indicated, it must contain a description and any necessary comments.

(15) Use this space to designate any weight scale sample instructions or any other explanations to clarify scaling, processing and/or mailing requirements. If additional scaling locations are approved, revise original or current form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.

(16) Require purchaser to sign and date completed form in addition to State Forester Representative, sign and print name on the form. Signatures not required on revisions.



**Oregon Department of Forestry
 EXHIBIT C - PULP SORT
 PROCESSING INSTRUCTIONS - LOCATION APPROVAL
 BRAND INFORMATION**

Southwest Oregon, SOA

(1) ORIGINAL REGISTRATION Date _____
 REVISION NUMBER 000 Date _____
 CANCELLATION Date _____

(2) TO: _____
 (Approved Pulp Processing Facility)

(3) FROM: Southwest Phone (541) 474-3152
 Oregon
 (State Forestry District)
 Address: 5375 MONUMENT DR.
 GRANT PASS, OR 97526

(4) PURCHASER: _____

(5) Scaling Bureau (TPSO) Processing Weight receipts:

Mailing Address: _____

Phone Number: _____

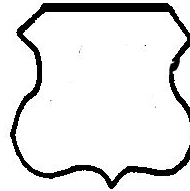
(9) SALE NAME: Bits GNA

COUNTY: Linn

(10) STATE CONTRACT NUMBER:
 SW-341-2023-GF9219-01

(11) STATE BRAND REGISTRATION NUMBER: _____

(12) STATE BRAND INFORMATION:



(13) REMARKS:

Operator's Name (Optional inclusion by District):

(14) SIGNATURES:

Purchaser or Authorized Representative Date

State Forester Representative Date

State Forester Representative PRINT NAME

(6) **STATE Definition of Approved Pulp Sort:**

- Top portion of the tree (tops).
- All logs with a diameter (Big End) greater than 8 inches marked with blue paint.

(7) PULP FACILITY PROCESSING INSTRUCTIONS:

- Pulp loads shall be weighed in lieu of scaling.
- One Ton = 2000 lbs (Short Ton).
- Pulp loads shall have a yellow Log Load Receipt attached.
- Gross weight and truck tare weight for each load shall be machine printed on the weight receipt.
- Weigher shall sign the weight receipt.
- Weigher shall record the Log Load Receipt number on the weight receipt.
- Weigher shall attach the Weight receipt to the Log Load Receipt and mail them weekly to the TPSO processing the Weight receipt.

(8) TPSO PROCESSING INSTRUCTIONS

- Submit data files daily (or each day of activity).
- Mail or deliver scale tickets weekly to ODF Headquarters in Salem.

Notify the District within one hour when branding is inadequate for quick identification, the logs are marked with orange paint, the receipts are missing, not correctly or completely filled out, and/or logs do not meet the specifications of the STATE definition of Approved Pulp Sort.

General Distribution: TPSO, Approved Scaling Locations and Purchaser.



Oregon Department of Forestry EXHIBIT C - PULP SORT INSTRUCTIONS FOR EXHIBIT C

Southwest Oregon, SOA

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.
- (2) Approved Pulp Processing Facility. Write in as written in the Approved Log Delivery Location https://apps.odf.oregon.gov/Divisions/management/asset_management/scalinglocation.asp
- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Third Party Scaling Organization that will be processing the weight tickets, mailing address, and phone number.

Columbia River Log Scaling & Grading Bureau
P.O.Box 7002, Eugene, OR 97401
Phone: (541) 342-6007 Fax: (541) 342-2631
Email: services@crls.com

Pacific Rim Log Scaling Bureau, Inc.
8288 28th Court North East, Lacey, WA 98516
Phone: (360) 528-8710 Fax: (360) 528-8718
Email: office@prlsb.com

Mountain Western Log Scaling & Grading Bureau
P.O.Box 580, Roseburg, OR 97470
Phone: (541) 673-5571 Fax: (541) 672-6381
Email: info@mwlsgb.com

Yamhill Log Scaling & Grading Bureau
P.O.Box 709, Forest Grove, OR 97116
Phone: (503) 359-4474 Fax: (503) 359-4476
Email: yamhilllog@frontier.com

Northwest Log Scalars Inc.
6137 NE 63rd St, Vancouver, WA, 98661
Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213
Email: info@nwlogscalars.com

- (6) Big end of log is not to exceed 2 inches greater than the minimum removal specifications in the contract. Example: Minimum removal specifications 6 inches and 20 board feet, then the Big end of log not to exceed 8 inches. When conifer and hardwood removal specifications are different, use the smaller removal diameter to determine this specification.
- (9) Enter sale name and county.
- (10) Enter sale Contract number.
- (11) Enter Oregon's State Brand Registry Number **(REQUIRED)**.
- (12) Show brand assigned to timber sale. One brand only, if more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (13).
- (13) Use this section to list any special instructions or the reason for any revisions in section item (1).
- (14) Require purchaser to sign and date completed form in addition to State Forester Representative, sign and print name on the form. Signatures not required on revisions.

State Timber Sale Contract
No. SW-341-2021-GF9219-01
Bits GNA

EXHIBIT D

SEE THE FOLLOWING PAGES FOR DETAILS

TABLE PURSUANT TO C5.12# - USE OF ROADS BY PURCHASER (06/1999)

Restricted Road List

Road Number	Road Name	Termini		Description of Restrictions
		From	To	
2022000	Canyon Creek Road	Hwy. 20	2026000	/1/, /2/, /3/
2026000	Owl Creek Road	2022000	End of Area 5	/1/, /2/, /3/, /4/
2026335	Tidbits Road	MP 0.0	MP 2.2	/1/, /2/, /3/

/1/ Limited Structural Strength—this road has limited strength and is likely to be damaged if used when adverse conditions exist in the roadbed. This road is not to be used for haul during the wet season (approximately October 16 through May 14), unless otherwise approved in writing by STATE.

/2/ Pre-haul—Road is unsuitable for hauling prior to all pre-haul road maintenance requirements identified in C5.31# being completed and accepted.

/3/ Keep open—Road is to remain open and accessible at all times to fire suppression resources. This includes nights and weekends.

/4/ Bridge—Use of road by commercial users with loads exceeding Oregon state legal loading for a Single Trip Permit and that will cross bridges under Forest Service jurisdiction shall apply for a Bridge Overload Permit (FSM 7736.05). A State highway overload permit (issued by ODOT, WSDOT) is not a valid permit for crossing Forest Service bridges.

Title and Date of Governing Road Rules Document:

Road Rules for Commercial Haul
Willamette National Forest

December 2016

Commercial Road Rules

Effective Date

Sale Name: Bits GNA

TABLE PURSUANT TO C5.31# – ROAD MAINTENANCE REQUIREMENTS (07/2001)

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

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications								
	From	To		T811	T813	T831	T832	T834	T836	T842	T854	T891
2022000	Hwy. 20	2026000	7.1	P	P	P	P		P	P	P	
2026000	2022000	End of Area 5	7.6	P	P	P	P		P	P	P	
2026335	MP 0.0	MP 2.2	2.2									

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications								
	From	To		T811	T813	T831	T832	T834	T836	T842	T854	T891
2022000	Hwy. 20	2026000	7.1	P	P	P	P	P	P	P	P	P
2026000	2022000	End of Area 5	7.6	P	P	P	P	P	P	P	P	P
2026335	MP 0.0	MP 2.2	2.2	P	P	P	P	P	P	P	P	P

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications								
	From	To		T811	T813	T831	T832	T834	T836	T842	T854	T891
2022000	Hwy. 20	2026000	7.1	P	P	P	P	P	P			P
2026000	2022000	End of Area 5	7.6	P	P	P	P	P	P			P
2026335	MP 0.0	MP 2.2	2.2	P	P	P	P	P	P			P

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

Description of work required by the above listed T-specs is shown in the following
ROAD MAINTENANCE REQUIREMENTS SPECIFICATION table,
and included in the timber sale contract.

Sale Name: Bits GNA

**ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE
PURSUANT TO C5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)**

Column No.	Heading	Entry	Explanation
	Any	Blank	Except as otherwise described, no entry indicates Purchaser is not authorized or required to perform the work item(s).
	Any	RC	This work requirement applies only when haul of sale related construction materials occurs.
2	Special Project Specification	Number and Tonnage	Entry indicates Special Project Specification which applies. Also the amount of asphalt tonnage required.
3	Travel Way	EX	Purchaser shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work.
		Numbers	Purchaser shall maintain the traveled way to the standard width indicated by the entry, plus curve widening, in accordance with Section T-811. If required, the road template shall be shaped to this width and to the designated cross slope before haul and during recurring maintenance.
		IS, C, OS, F, or AI	Cross slopes are designated as: IS (Inslope), C (Crown), OS (Outslope), F (Flat), AI (As Is).
		A or B	If compaction is required.
4	Brush and Log Out	Numeric & R and or L	Purchaser shall remove brush for specified width on either or both the right (R) side or left (L) side of road.
		As Staked	Limits of brushing are as staked or marked in the field.
		OPT	Purchaser may use hand or mechanical means of brushing.
		H	Only hand brushing may be used.

Sale Name: Bits GNA

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE
PURSUANT TO C5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Purchaser shall place surfacing on roads listed according to the grading indicated.
6	Dust Abatement	OPT	Product selection is Purchaser's choice from those listed in Section T-812.
		Product Abbr.	Unless otherwise agreed, Purchaser is restricted to product listed corresponding to the abbreviation shown in Section T-812; (i.e., LigS = Lignon Sulfonate) Application rates are estimated amounts.
		EX	Purchaser shall abate dust on the existing width
		VAR	Application will vary and should applied as needed.
		Numbers	Purchaser shall abate dust to the width indicated by entry.
7	Seasonal Maintenance	W	Waterbars and/or crossditching shall be required prior to expected seasonal precipitation.
		B	Entrance barriers shall be installed by Purchaser prior to nonuse periods.
8	Snow Removal	TS	Snowplowing authorized for Purchaser's Operations without recreation access being provided per Section T-803 requirements.
		JU	Snowplowing authorized, but must provide for recreation joint use per Section T-803 requirements.
		Blank	Snowplowing is not authorized. Forest Service may authorize plowing by permit when not in conflict with other uses.
9	Post Haul	PR	PR denotes that work is Purchaser's Responsibility to perform.

STANDARD ROAD MAINTENANCE SPECIFICATIONS
Pacific Northwest Region

Road Maintenance T-Specifications
for
Bits GNA Timber Sale

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 800 SPECIFICATION DEFINITIONS

Wherever the following terms or pronouns are used in Specification T-800 the intent and meaning shall be interpreted as follows:

800-1.1 Agreement: Maintenance projects require a mutually acceptable method to resolve the problems which arise when incompatible situations arise between drawings and specifications and actual conditions on the ground to allow orderly and satisfactory progress of the maintenance.

These specifications have been developed in anticipation of those problem areas and have provided that such changes will be by Agreement.

It is intended that drawings and specifications will govern unless "on-the-ground" conditions warrant otherwise, when specifications call for "Agreement", "agreed", or "approval" such Agreement or approval shall be promptly confirmed in writing.

800-1.2 Annual Road Maintenance Plan: A plan prepared by various users of one or several roads. The plan is an Agreement on maintenance responsibilities to be performed for the coming year.

800-1.3 Base Course: Material used to reinforce subgrade or, as shown on drawings, placed on subgrade to distribute wheel loads.

800-1.4 Berm: Curb or dike constructed to prevent Roadway runoff water from discharging onto embankment slope.

800-1.5 Borrow: Select Material taken from designated borrow sites.

800-1.6 Crown, Inslope, and Outslope: The cross slope of the Traveled Way to aid in drainage and traffic maneuverability.

800-1.7 Culverts: A conduit or passageway under a road, trail, or other obstruction. A culvert differs from a bridge in that it is usually entirely below the elevation of the Traveled Way.

800-1.8 Drainage Dip: A dip in the Traveled Way which intercepts surface runoff and diverts the water off the Traveled Way. A Drainage Dip does not block the movement of traffic.

800-1.9 Drainage Structures: Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, down drains, downpipes, and the like.

800-1.10 Dust Abatement Plan: A table which lists the road, dust palliative, application rates, and estimated number of subsequent applications.

800-1.11 Lead-off Ditches: A ditch used to transmit water from a Drainage Structure or Drainage Dip outlet to the natural drainage area.

800-1.12 Material: Any substances specified for use in the performance of the work.

800-1.13 Prehaul Maintenance: Road maintenance work which the Purchaser determines must be accomplished to maintain the roads to a satisfactory condition commensurate with the Purchaser's use provided Purchaser's Operations do not damage improvements under B6.22 or National Forest resources and hauling can be done safely. This work will be shown in the Annual Road Maintenance Plan as provided in C/CT5.4.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

- Prehaul Maintenance work the Purchaser elects to perform will be in compliance with the Road Maintenance T-Specifications.
- 800-1.14 Roadbed: The portion of a road between the intersection of Subgrade and side slopes, excluding that portion of the ditch below Subgrade.
- 800-1.15 Road Maintenance Plan: A table which shows applicable road maintenance specifications to be performed by Purchaser on specific roads.
- 800-1.16 Roadside: A general term denoting the area adjoining the outer edge of the Roadway.
- 800-1.17 Roadway: The portion of a road within the limits of excavation and embankment.
- 800-1.18 Shoulder: That portion of Roadway contiguous with Traveled Way for accommodation of stopped vehicles, for emergency use, and lateral support of base and Surface Course, if any.
- 800-1.19 Slide: A concentrated deposit of Materials from above or on back slope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated raveling.
- 800-1.20 Slough: Material eroded from the back slope which partially or completely blocks the ditch, but does not encroach on the Traveled Way so as to block passage of traffic.
- 800-1.21 – Slump: A localized portion of the Roadbed which has slipped or otherwise become lower than that of the adjacent Roadbed and constitutes a hazard to traffic.
- 800-1.22 Special Project Specifications: Specifications which detail conditions and requirements peculiar to the individual project.
- 800-1.23 Subgrade: Top surface of Roadbed upon which Base Course or Surface Course is constructed. For roads without Base Course or Surface Course, that portion of Roadbed prepared as the finished wearing surface.
- 800-1.24 Surface Course: The Material placed on Base Course or Subgrade primarily to resist abrasion and the effects of climate. Surface Course may be referred to as surfacing.
- 800-1.25 Surface Treatment Plan: A table which lists the roads and surface treatments to be applied.
- 800-1.26 Traveled Way: That portion of Roadway, excluding Shoulders, used for the movement of vehicles.
- 800-1.27 Turnouts: That portion of the Traveled Way constructed as additional width on single lane roads to allow for safe passing of vehicles.
- 800-1.28 Water Source: A place designated on the Road Maintenance Map for acquiring water for road maintenance purposes.
- 800-1.29 Water bar: A dip in the Roadbed which intercepts surface runoff and diverts the water off the Roadway. A Water bar is not designed to be traversable by logging trucks.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 811 BLADING (10/07)

811.01 Description

This work consists of surface blading the traveled way to a condition that facilitates traffic and provides proper drainage. Blading includes shaping the crown or slope of travel way, berms, and drainage dips in accordance with this specification. Compaction is required when shown on the ROAD LISTING.

811.02 Maintenance Requirements

- A. Timing - Perform surface blading during the contract period as often as needed to provide conditions stated for the maintenance level of the road.
- B. General
 - 1. Blade and shape the existing traveled way and shoulders, including turnouts, to produce a surface which is uniform, consistent to grade, and crowned or cross-sloped as indicated by the character of the existing surface, unless otherwise shown in the ROAD LISTING, to at least ½ inch per 1 foot of width, but not more than ¾ inch per 1 foot of width. Thoroughly loosen surfacing material to no less than 2 inches depth or the depth of potholes or corrugations. Scarification to facilitate cutting to the full depth of potholes or corrugations may be elected, but will be considered incidental to blading. Do not scarify to a depth that will cause contamination of the surfacing.
 - 2. Apply water during blading when sufficient moisture is not present to prevent segregation. Supply, haul, and apply water in accordance with Section T-891.
 - 3. Shape existing native rock or aggregate surfaced drainage dips to divert surface runoff to existing outlet devices, ditches, or discharge locations.
 - 4. Establish a blading pattern which provides a uniform driving surface, retains the surfacing on the roadbed, and provides a thorough mixing of the materials within the completed surface width. Upon final blading, no disturbed rock shall protrude more than 2 inches above the adjacent surface unless otherwise provided in the contract. Remove and place outside the roadbed, material not meeting this dimension so as not to obstruct drainage ways or structures. This material may be scattered off the roadbed if there is free drainage.
 - 5. Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
NA

- C. Routine Blading
 - 1. Conform to the dimensions SHOWN ON THE DRAWINGS or designated in the SUPPLEMENTAL SPECIFICATIONS upon completion of blading.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

2. Shape roadbed width in excess of the dimensions shown only as needed to provide drainage away from the traveled way. Do not remove established grasses and other vegetation from the excess width except as incidental to providing drainage or unless otherwise provided in the contract.

D. Compaction

- 1 Roads requiring compaction will be included in the ROAD LISTING.
2. Unless Compaction Method B is designated in the ROAD LISTING, all traveled ways requiring compaction may be compacted by Method A. Compaction shall commence immediately following blading.

Compaction methods are:

Compaction Method A: Breaking track while operating equipment on the traveled way.

Compaction Method B: 7-10 ton pneumatic, steel, or equivalent vibratory roller, operated to cover the full width two (2) times.

- ### E. Undercutting - Undercutting roadway back slope is not permitted.

F. Intersections

At intersections, blade the roadbeds of side roads which are not closed or restricted from vehicular use to ensure smooth transitions.

Signing, cross ditching in the road surface (traveled way), earth berms, or other devices placed to discourage or eliminate use by passenger cars, are field evidence of road closure or restriction. Roads listed for work under Sections T-835, T-836, T-838, and T-839 shall be considered restricted.

Side roads listed for work under this Section are not restricted.

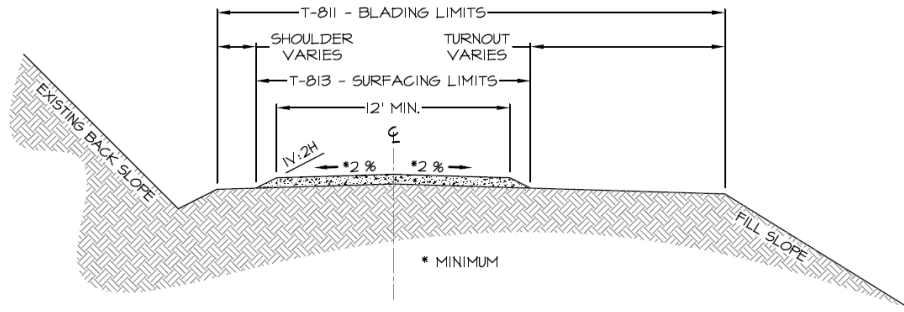
- ### G. Cleaning of Structures - Do not allow materials resulting from work under this Section to remain on or in structures, such as bridges, culverts, cattle guards, or drainage dips.
- ### H. Berms - Maintain existing berms to the condition of adjacent segments. Do not create new berms.
- ### I. Smooth Blading - Smooth blading may be used as an interim measure to remove loose surfacing material from the wheel paths, and store removed materials in a recoverable windrow, until blade processing as described in this section is feasible.

Watering will not be required for smooth blading. Accomplish smooth blading without distorting the existing cross-slope or crown of the traveled way.

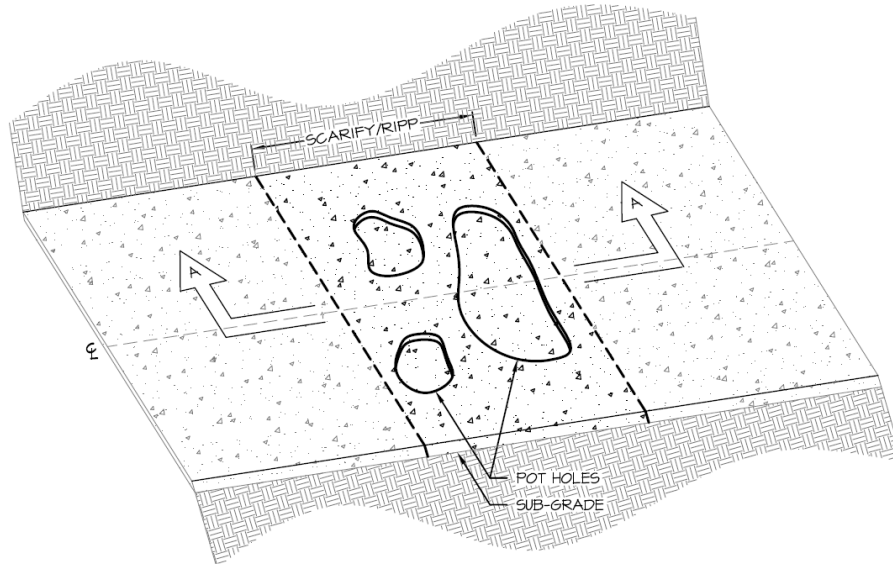
Move and store loose surfacing materials on the high side of super-elevated curves and sections with uniform inslope or outslope. In crowned sections, store the material on either or both sides as elected. Windrow and place stored materials to provide not less than 12 feet of smooth traveled way on one-lane segments, or 20 feet of smooth traveled way on two-lane segments, or segments with turnouts. Cut holes through windrows, which may collect water on the road, for drainage at least every 500 feet.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

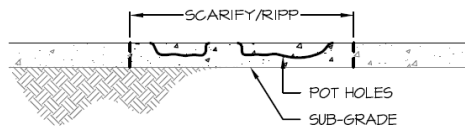
Pacific Northwest Region



BLADING & SPOT ROCK
TYPICAL
Not to Scale



POT HOLE TREATMENT
TYPICAL
Not to Scale



SECTION A - A
Not to Scale

NOTES:

1. GRADING - CROWN ROADS WITH A 2% - 3% CROWN. FOR IN-SLOPE/OUT-SLOPE ROADS SLOPE WITH A 2% - 3% CROSS SLOPE OVER THE ENTIRE ROAD WIDTH. COMPACTION METHOD SHALL BE COMPLETED AS SHOWN ON C5.31# - ROAD MAINTENANCE REQUIREMENTS TABLE
2. SURFACING SPOT ROCK - PLACE MATERIAL THE FULL ROAD WIDTH BY END DUMPING TO A MINIMUM DEPTH OF 3".
3. CLEANING DITCHES, WHEN REQUIRED BY REFERENCE, IS COVERED UNDER T-831, T-832, AND T-834.
4. POT HOLES - PRIOR TO GRADING AND SPOT ROCK ACTIVITIES, SCARIFY/RIPP ALL POT HOLES, FULL WIDTH, DOWN TO SUB-GRADE OR FIRM GROUND AS DIRECTED BY CONTRACTING OFFICER.

T-811 & T-813 TYPICALS (11/14)

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 813 SURFACING (10/07)

813.01 Description

This work consists of placing surface aggregate as DESIGNATED ON THE GROUND, or as ordered by the STATE. It includes preparing the area, furnishing, hauling, and placing all necessary materials and other work necessary to blend with the adjacent road cross section.

813.02 Materials

Materials will be Government-furnished when stated in the supplemental specifications.

Materials furnished by the Purchaser shall conform to the gradation and quality requirements of Section 703 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects FP-03 U.S. Customary Units" and FS supplements to the FP-03. Use ODOT 1 ½ dense gradation or FS Gradation S.

All materials transported onto National Forest System land shall be free of invasive species of concern. Written documentation of methods used to determine the invasive species of concern free status of any and all materials furnished by the Purchaser shall be submitted to the STATE before transport of any materials onto National Forest System land.

The STATE shall have 5 days, excluding weekends and Federal holidays, to review the methods and inspect the materials after the required written documentation is provided by the Purchaser. After satisfactory review and inspection or after such 5 day period, the Purchaser may transport the material onto National Forest System land.

Material or methods appropriate for establishing invasive species of concern free status for the particular invasive species of concern are listed below.

Invasive Species of Concern and Acceptable Methods specific to this project:

Invasive Species of Concern	Acceptable Methods
NA	NA

813.03 Maintenance Requirements

- A. Thoroughly loosen the area to be surfaced to a minimum depth of 1 inch prior to placement of aggregate.
- B. Mixing and Placing

When scheduled coincidentally with work under Section T-811, and included in the SUPPLEMENTAL SPECIFICATIONS, mix surfacing and existing aggregate with water until a uniform mixture is obtained prior to final shaping and compaction.

Otherwise, spread the material on the prepared area in layers no more than 4 inches in depth. When more than one (1) layer is required, shape and compact each layer before the succeeding layer is placed. Upon completion, the surfacing shall reasonably conform to the adjacent cross section and provide smooth transitions in the road profile.

Compaction Methods

Compaction Method A: Breaking track while operating equipment on the traveled way.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

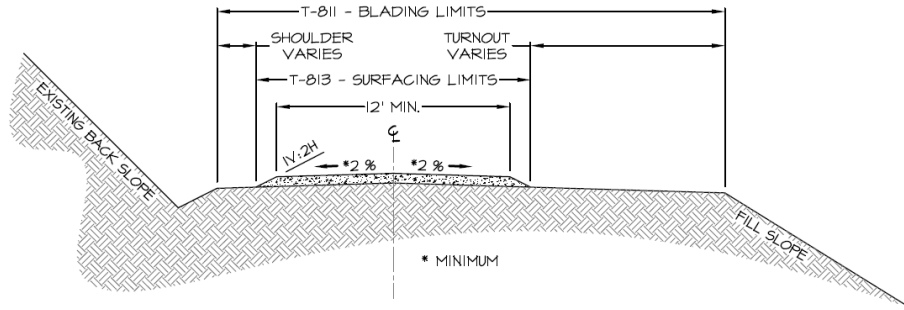
Pacific Northwest Region

Compaction Method B: 7-10 ton pneumatic, steel, or equivalent vibratory roller, operated to cover the full width two (2) times.

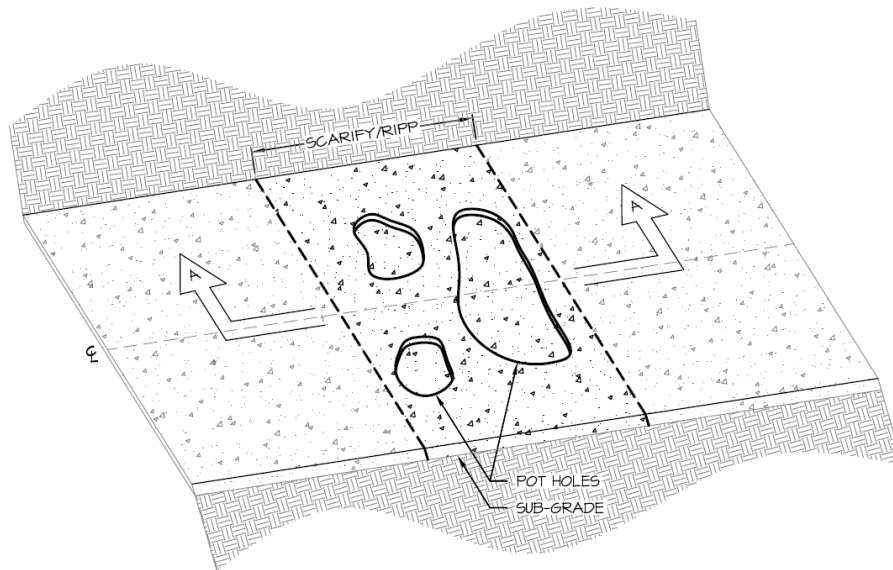
Either Method A or B may be used unless Method B is designated in the ROAD LISTING.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

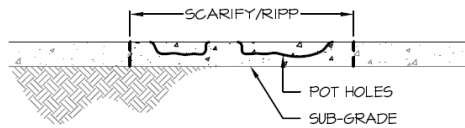
Pacific Northwest Region



BLADING & SPOT ROCK
TYPICAL
 Not to Scale



POT HOLE TREATMENT
TYPICAL
 Not to Scale



SECTION A - A
 Not to Scale

NOTES:

1. GRADING - CROWN ROADS WITH A 2% - 3% CROWN. FOR IN-SLOPE/OUT-SLOPE ROADS SLOPE WITH A 2% - 3% CROSS SLOPE OVER THE ENTIRE ROAD WIDTH. COMPACTION METHOD SHALL BE COMPLETED AS SHOWN ON C5.31# - ROAD MAINTENANCE REQUIREMENTS TABLE
2. SURFACING SPOT ROCK - PLACE MATERIAL THE FULL ROAD WIDTH BY END DUMPING TO A MINIMUM DEPTH OF 3".
3. CLEANING DITCHES, WHEN REQUIRED BY REFERENCE, IS COVERED UNDER T-831, T-832, AND T-834.
4. POT HOLES - PRIOR TO GRADING AND SPOT ROCK ACTIVITIES, SCARIFY/RIPP ALL POT HOLES, FULL WIDTH, DOWN TO SUB-GRADE OR FIRM GROUND AS DIRECTED BY CONTRACTING OFFICER.

T-811 & T-813 TYPICALS (11/14)

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 831 DITCH MAINTENANCE (10/07)

831.01 Description

This Section provides for routine maintenance of various types of ditches to provide a waterway which is unobstructed, as shown on the ROAD LISTING or DESIGNATED ON THE GROUND.

831.02 Maintenance Requirements

- A. Maintain ditches by removing rock, soil, wood, and other materials. Maintained ditches shall function to meet the intent of the original design.
- B. Undercutting back slopes during removal operations is not permitted.
- C. Suitable material up to 4 inches in greatest dimension removed from the ditches may be blended into existing native road surface and shoulder or placed in designated berm.
- D. Do not blend material from ditch cleaning operations into aggregate surfaced roads. Do not blade material across aggregate or bituminous surfaced roads, unless approved in writing by the STATE.
- E. Haul material in excess of 831.02 D or subject to 831.02 E to a designated waste area under Section T-832. Remove excess materials temporarily stored on the ditch slope or edge of the shoulder daily.
- F. Remove limbs and wood chunks in excess of 12 inches in length or 3 inches in diameter from ditches and place outside the roadway.
- G. Clean paved surfaces of all materials resulting from ditch maintenance work.

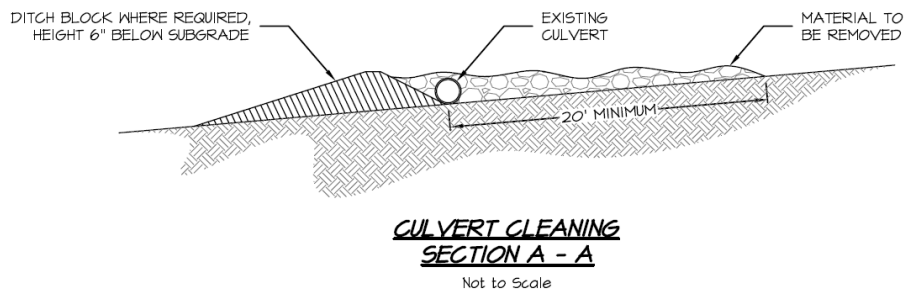
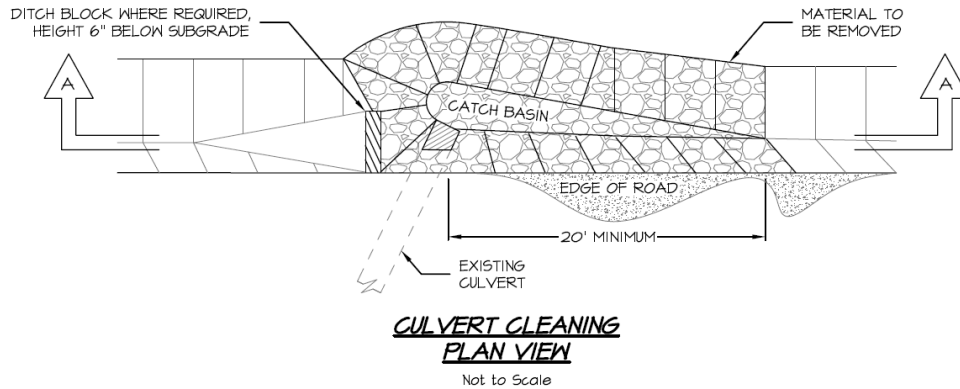
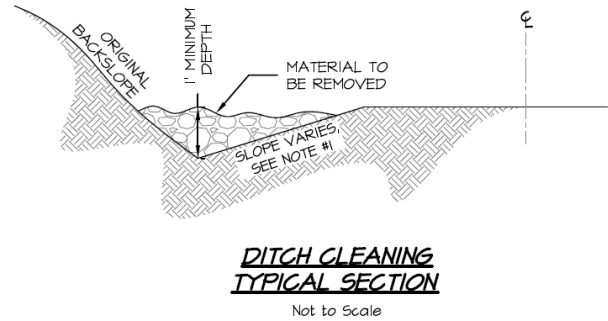
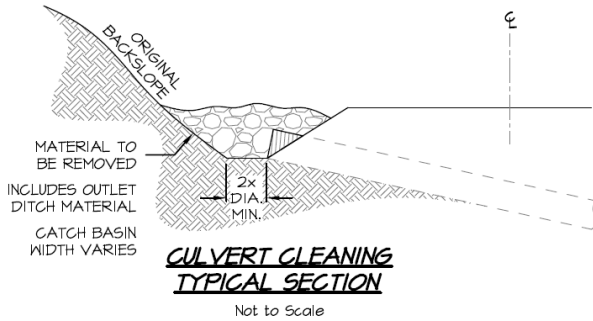
Shape lead-off ditches to drain away from the traveled way.

Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
NA

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region



NOTES:

1. DITCH SLOPE VARIES FROM IV:3H, TYPICAL, TO A IV:2H MINIMUM ALONG WIDTH RESTRICTED ROAD SEGMENTS. CLEAN AS DIRECTED BY CONTRACTING OFFICER.
2. DISPOSE OF EXCESS MATERIALS AT DESIGNATED WASTE AREAS.

T-831 & T-834 TYPICALS (11/14)

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 832 REMOVE AND END HAUL MATERIALS (05/07)

832.01 Description

Work consists of loading, hauling, and placing of slide, slough, or excess materials such as rock, soil, vegetation, and other materials to designated disposal sites.

832.02 Maintenance Requirements

- A. Remove, end haul, and dispose of excess materials generated by work under other Sections of this contract.
- B. Remove the slide and slough materials in the area extending approximately 6 feet vertically above the road surface and not more than 3 feet down slope from the roadbed. Dispose of material at designated sites as SHOWN ON THE DRAWINGS, identified in SUPPLEMENTAL SPECIFICATIONS, or as ordered by the STATE.

Reshape the slope which generated the slide material as nearly as practical to its original condition by equipment operating from road surface. Reshaping of roadside ditches in slide area shall be in accordance with Section T-831.
- C. When approved by the STATE, fill slumps by compacting selected materials into roadway depressions. Compaction is by Method 2.
- D. Place all materials in disposal sites as specified in the SUPPLEMENTAL SPECIFICATIONS, as SHOWN ON THE DRAWINGS, or as ordered by the STATE.
 - 1. Method 1 - Side Casting and End Dumping. Material may be placed by side casting and end dumping. Where materials include large rocks, provide a solid fill by working smaller pieces and fines into voids. Shape the finished surfaces to drain.
 - 2. Method 2 Layer Placement - Step or roughen surfaces on which materials are to be placed prior to placing any material. Place materials in approximately horizontal layers no more than 12 inches thick. Compact each layer by operating hauling and spreading equipment over the full width of each layer.
- E. Repair any damage to existing aggregate or pavement surfaces.

STANDARD ROAD MAINTENANCE SPECIFICATIONS
Pacific Northwest Region

T - 834 DRAINAGE STRUCTURE MAINTENANCE (10/07)

834.01 Description

This work consists of cleaning and reconditioning culverts and other drainage structures.

834.02 Maintenance Requirements

- A. Clean drainage structures, inlet structures, culverts, catch basins, and outlet channels specified in the SUPPLEMENTAL SPECIFICATIONS. Clean catch basins by removing the material within the area SHOWN ON THE DRAWINGS.
- B. Clean the transition from the ditch line to the catch basin a distance of 10 feet from the catch basin. Clean outlet channels and lead-off ditches a distance of 6 feet. Remove and place debris and vegetation so as to not enter the channel or ditch, or obstruct traffic. Haul debris and vegetation to a designated disposal area in accordance with Section T-832.
- C. Hydraulic flushing of drainage structures is not allowed unless provided for in the SUPPLEMENTAL SPECIFICATIONS.

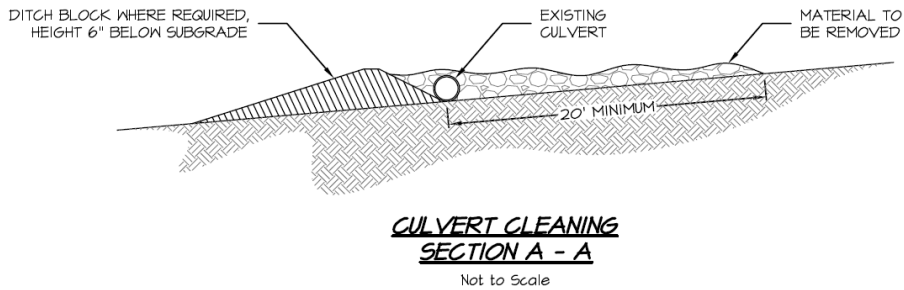
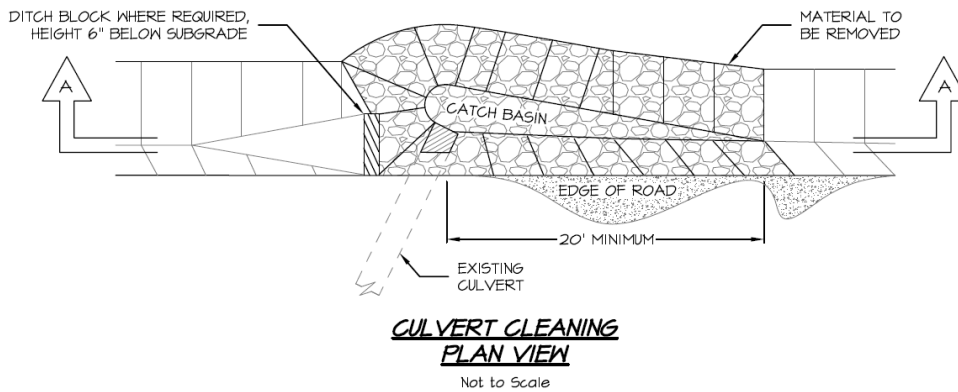
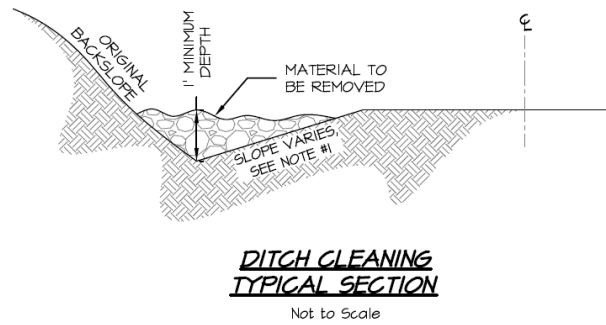
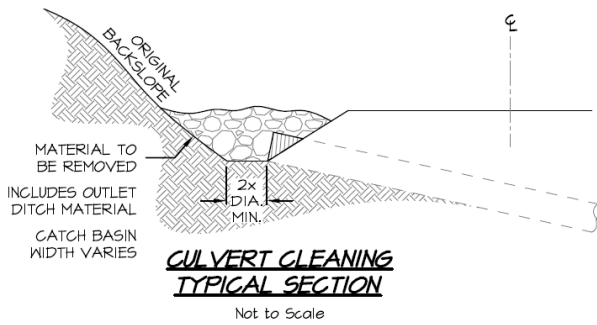
Cleaning and reconditioning are limited to the first 3 feet of inlet and outlet, determined along the top of the structure. Recondition culvert inlet and outlet by field methods such as jacking out or cutting away damaged metal which obstructs flow. Treat cut edges with a zinc rich coating, in accordance with AASHTO M 36M and ASTM A 849.

- E. Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
NA

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region



NOTES:

1. DITCH SLOPE VARIES FROM IV:3H, TYPICAL, TO A IV:2H MINIMUM ALONG WIDTH RESTRICTED ROAD SEGMENTS. CLEAN AS DIRECTED BY CONTRACTING OFFICER.
2. DISPOSE OF EXCESS MATERIALS AT DESIGNATED WASTE AREAS.

T-831 & T-834 TYPICALS (11/14)

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 836 MAINTENANCE FOR LIMITED USE (05/07)

836.01 Description

This work consists of making limited use roads passable for joint use by Purchaser and high clearance vehicles, and providing drainage from the traveled way and roadbed.

836.02 Maintenance Requirements

A. Traveled Way

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

1. Remove brush, fallen trees, rocks, and other debris from traveled way, including turnouts, turnarounds, and other locations that interfere with needed maintenance as follows:
 - a. No object extending over 4 inches above the road surface shall remain within the 12 feet usable traveled way and 10 feet turnout widths. Center the usable width on the roadbed or position away from the fill slope.
 - b. Cut and remove standing or down trees, logs, brush, and limbs from within the area described in 1 a. above. Remove all encroaching limbs to a height of 14 feet above the traveled way surface. Scatter material not meeting utilization standards outside and below the roadbed on the fill side. Limb and remove timber which meets utilization standards or deck at agreed locations.
 - c. Place all removed materials away from drainages.
 - d. During use, maintain drainage structures, including dips, ditches and culverts in a useable condition.
2. Clean and recondition drainage facilities in accordance with: Section T-831 and T-834.

B. Slough and Slides

1. Slough and slides may be left in place, provided surface drainage is provided and at least 12 feet of width is available for vehicle passage.
2. Purchaser may reposition or ramp over slides and slough when the traveled way width is less than 12 feet providing the material is capable of supporting vehicles. Limit out slope to no more than six percent.
3. Reposition slough or slide materials on the roadbed which are not capable of supporting a vehicle to provide the 12 foot width. When directed by the Contracting Officer, slough or slide material will be removed under Section T-832.

C. Slumps and Washouts

1. Drain the roadbed immediately upgrade of slumps and longitudinal cracks to prevent water from entering slump area.
2. Slumps and longitudinal cracks at the edge of the roadbed shall not be considered a part of the usable width. Usable width may be reduced to 10 feet in the area of the slump.
3. Unless the Contractor Officer agrees to material being placed on slumps, ramp the slumps on both ends into undisturbed roadbed to provide at least 10 feet usable width. Use removed materials to guide vehicles to the ramp location or to aid in draining the area.
4. Washouts may be filled with suitable material.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

D. Post haul

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

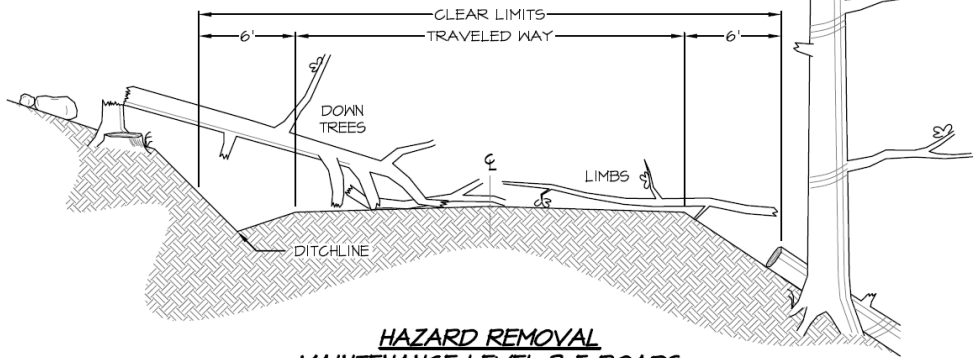
1. Shape the traveled way and disturbed roadbed to provide functional drainage.
2. Reinstall removed cross ditches and water bars and provide any additional drainage structures necessary to offset changes caused through use and maintenance.
3. Leave roads useable for high clearance vehicles. Remove or reshape purchaser modifications at road junctions to leave the entrance as it was before use, or as agreed at the time of improvement.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

NOTES:

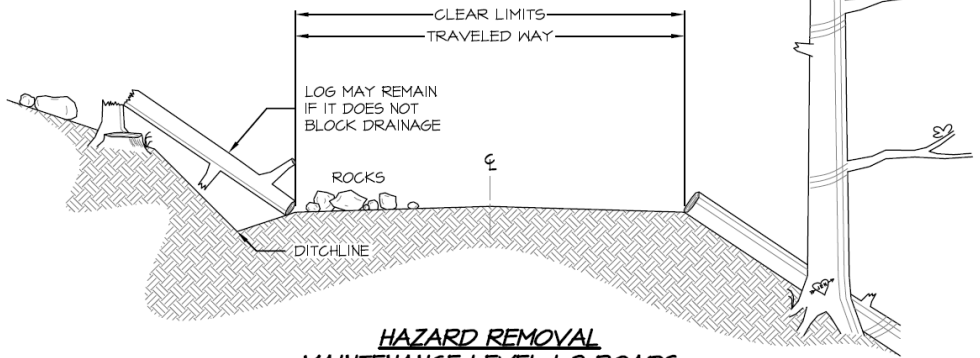
1. OPEN ROAD TO A MINIMUM CLEAR WIDTH AS SHOWN.
2. REPOSITION DOWN TREE SECTIONS PERPENDICULAR TO THE ROAD CENTERLINE SO AS NOT TO ROLL.
3. REMOVE DOWN TREES, ROCKS, LIMBS AND OTHER DEBRIS OVER 3" IN HEIGHT.
4. MAINTAIN DRAINAGE STRUCTURES INCLUDING DIPS, DITCHES AND CULVERTS IN ACCORDANCE WITH T-831, T-832 AND T-834.



Not to Scale

NOTES:

1. OPEN ROAD TO A 12' MINIMUM CLEAR WIDTH.
2. REPOSITION DOWN TREE SECTIONS PERPENDICULAR TO THE ROAD CENTERLINE SO AS NOT TO ROLL.
3. REMOVE DOWN TREES, ROCKS, LIMBS AND OTHER DEBRIS OVER 3" IN HEIGHT.
4. MAINTAIN DRAINAGE STRUCTURES INCLUDING DIPS, DITCHES AND CULVERTS IN ACCORDANCE WITH T-831, T-832 AND T-834.



Not to Scale

T-836, T-838 & T-839 TYPICALS (11/14)

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 842 CUTTING ROADWAY VEGETATION (10/07)

842.01 Description

This work consists of cutting all vegetative growth, including trees and other vegetation less than 4 inches in diameter measured 6 inches above the ground, on roadway surfaces and roadsides.

842.02 Maintenance Requirements

A. General

1. Cut brush, trees, and other vegetation within each area treated to a maximum height of 6 inches above the ground surface or obstruction such as rocks or existing stumps. When work is performed under this Section, remove all limbs which extend into the treated area, or over the roadbed, to a height of 14 feet above the traveled way surface elevation.
2. Items to remain will be DESIGNATED ON THE GROUND.
3. Work may be performed either by hand or mechanically unless specifically shown in the Road Listing. Self-propelled equipment is not allowed on cut and fill slopes or in ditches.
4. Correct damage to trunks of standing trees caused by Purchaser's operation either by treatment with a commercial nursery sealer or by removing the tree as directed by the STATE.
5. Limb trees within the cutting limits which are over 4 inches -measured at 6 inches above the ground in lieu of cutting.
6. When trees are limbed, cut limbs within 4 inches of the trunk.

B. Cutting Side Vegetation

1. Show the width of vegetation to be removed in the Road Listing.
2. Unless otherwise included in the SUPPLEMENTAL SPECIFICATIONS or DESIGNATED ON THE GROUND:
 - a. Commence work at the edge of the traveled way and proceed away from the road centerline.
 - b. Roads without a defined traveled way: The starting point for cutting will be marked on the ground or defined in the SUPPLEMENTAL SPECIFICATIONS.
3. The points for establishing cutting limits are as follows:
 - a. Fill and day lighted (wide roadbed) section cutting commences at the edge of the traveled way and proceeds away from the road center line.
 - b. Drainage ditched section cutting commences at the bottom of the existing ditch and proceeds away from the road center line. Cutting on ditch fore slopes is not required.
 - c. Non-ditched cut section cutting commences at the intersection of the cut bank and the roadbed and proceeds away from center line.
4. Provide transitions between differing increments of cutting width. Accomplish transitions in a taper length of not less than 50 feet or more than 70 feet.

C. Debris

STANDARD ROAD MAINTENANCE SPECIFICATIONS
Pacific Northwest Region

- 1. Materials resulting from the cutting operation in excess of 12 inches in length or 3 inches in diameter are not allowed to remain on roadway slopes within the treated area, in ditches, or within water courses.
- 2. Remove limbs and chunks in excess of 3 inches in any dimension from the traveled way and shoulders.
- 3. Materials may be scattered down slope from the roadbed, outside of the work area and drainages unless otherwise listed in D. Invasive Species of Concern.

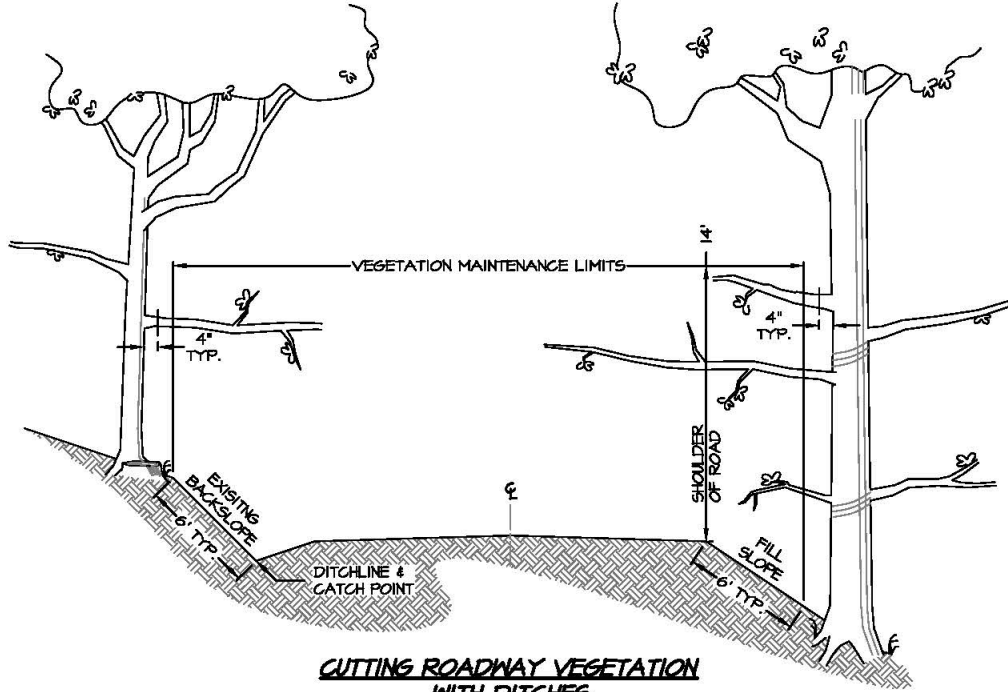
Invasive Species of Concern

Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

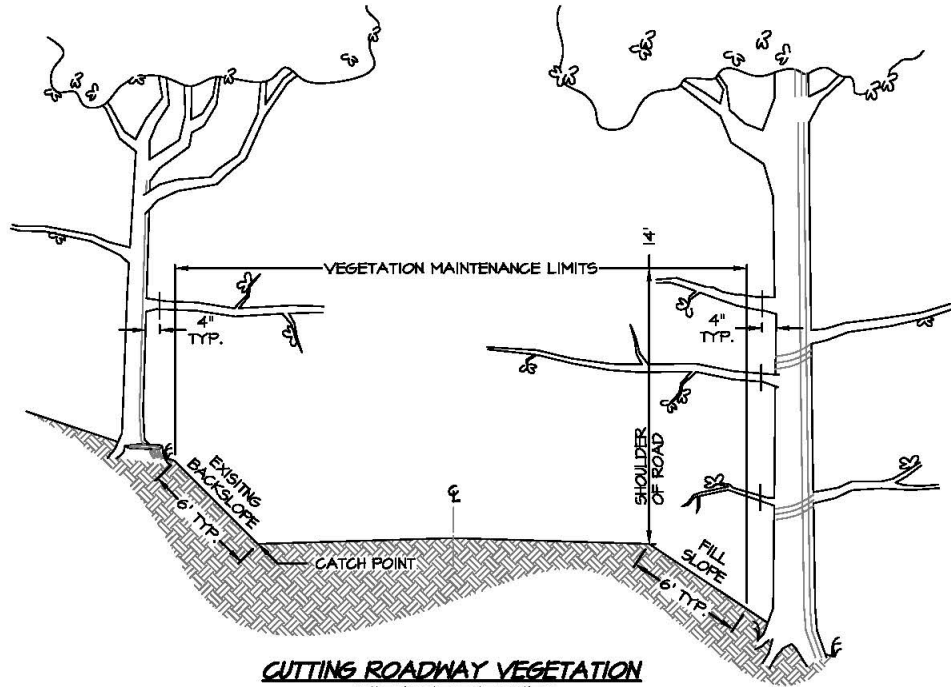
Invasive Species of Concern Prevention Practices
NA

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region



Not to Scale



Not to Scale

NOTES:

1. EXTEND AN ADDITIONAL 5' ON THE INSIDE OF HORIZONTAL CURVES, WHERE DIRECTED BY CONTRACTING OFFICER, TO REDUCE OBSTRUCTIONS IN SIGHT DISTANCE.

T-842 TYPICALS (11/14)

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 854 TREATMENT AND DISPOSAL OF DANGER TREES (5/07)

854.01 Description

This work consists of felling and disposal of designated live or dead danger trees sufficiently tall to reach roads used by the Purchaser. Any removal of logs is subject to prior agreement between the Contractor Officer and the Purchaser.

854.02 Requirements

A. Designation of danger trees.

Danger trees to be felled will be designated in advance by the STATE. Trees to be removed will be marked.

B. Falling, bucking and treatment for disposal.

Use controlled felling to ensure the direction of fall and prevent damage to property, structures, roadway, residual trees, and traffic. Stump heights, measured on the side adjacent to the highest ground, must not exceed 12 inches or 1/3 of the stump diameter, whichever is greater. Higher stump heights are permitted when necessary for safety.

Felled snags and trees, which are not marked for removal, will be left in a stable condition such that they will not roll or slide. Position logs away from standing trees so they will not roll, are not on top of one another, and are located out of roadway and drainage structures.

Fell, limb and, remove trees, which are marked for removal, that equal or exceed the utilization standards as listed in the Timber Sale contract or SUPPLEMENTAT SPECIFICATIONS. Dispose of merchantable timber designated for removal in accordance with B/BT2.32 Construction Clearing, of the Timber Sale Contract, or as described in SUPPLEMENTAL SPECIFICATIONS.

C. Slash treatment.

Within the roadway, remove limbs, chunks, and debris in excess of 12 inches in length and 3 inches in diameter, and concentrations that may plug ditches or culverts, and water courses.

Dispose of slash by scattering outside the roadway limits without damaging trees, or improvements.

Large accumulations of slash may be ordered hauled under T-832.

STANDARD ROAD MAINTENANCE SPECIFICATIONS

Pacific Northwest Region

T - 891 WATER SUPPLY AND WATERING (5/07)

891.01 Description

This work consists of providing facilities to furnish an adequate water supply, hauling and applying water.

891.02 Materials

If the Purchaser elects to provide water from other than designated sources, the Purchaser is responsible to obtain the right to use the water, including any cost for royalties involved.

Suitable and adequate water sources available for Purchaser's use under this contract are designated as follows:

All water sources are designated by the STATE

891.03 Equipment

- A. Positive control of water application is required. Equipment shall provide uniform application of water without ponding or washing.
- B. An air gap or positive anti-siphon device shall be provided between the water source and the vehicle being loaded if the vehicle has been used for other than water haul, if the source is a domestic potable water supply, or the water is used for tank mixing with any other materials.
- C. The designated water sources may require some work prior to their use. Such work may include cleaning ponded areas, installing temporary weirs or sandbags, pipe repair, pump installation or other items appropriate to the Purchaser's operations. Flowing streams may be temporarily sandbagged or a weir placed to pond water, provided a minimum flow of 10 cu. ft/sec is maintained. Obtain approval from the STATE on improvements for sandbags or weirs prior to placement.

State Timber Sale Contract
No. SW-341-2021-GF9219-01
Bits GNA

EXHIBIT E

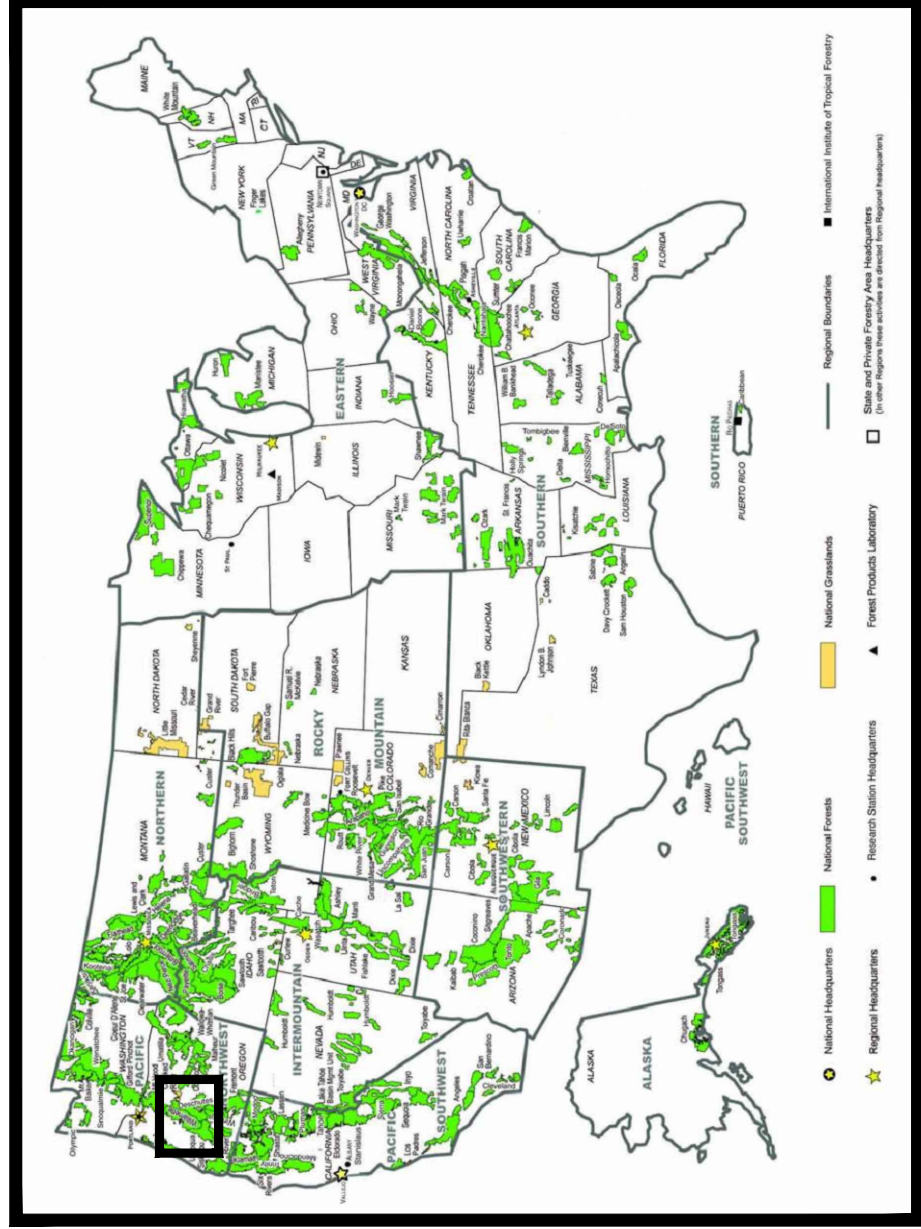
SEE THE FOLLOWING PAGES FOR DETAILS



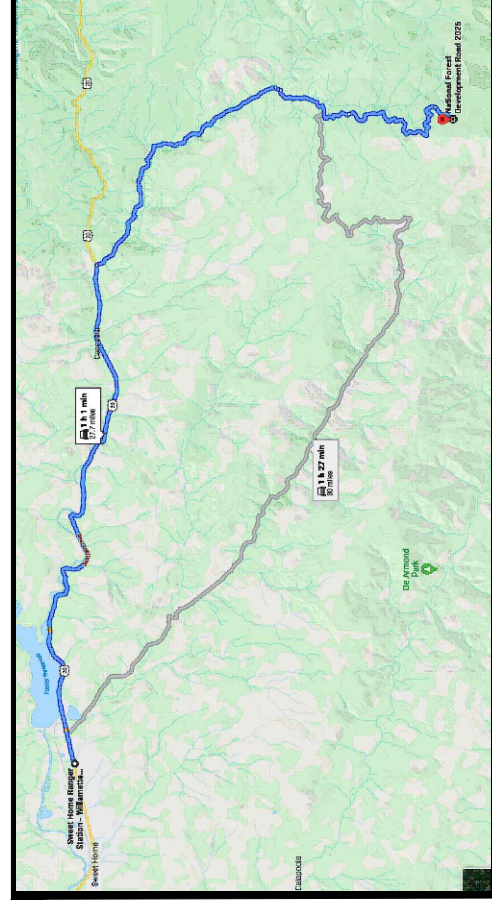
**United States Department of Agriculture
Forest Service**

**OREGON
LINN COUNTY
R6 PACIFIC NORTHWEST REGION
WILLAMETTE NATIONAL FOREST
SWEET HOME RANGER DISTRICT**

**BITS GNA
SPECIFIED ROADS**



NFSR	LENGTH	TYPE OF WORK
2026335	2.28	RECONSTRUCTION



VICINITY MAP

TRAVEL DIRECTIONS:

FROM THE SWEET HOME RANGER STATION, TRAVEL EAST ON US 20 FOR 13.6 MILES. TURN RIGHT ONTO NFSR 2022 (CANYON CREEK ROAD) AND TRAVEL FOR 7.1 MILES. TURN RIGHT ONTO NFSR 2026 AND TRAVEL FOR 6.4 MILES TO THE BEGINNING OF PROJECT AT THE JUNCTION OF NFSR 2026 AND 2026335 ON THE LEFT. COORDINATES: 44.271058, -122.367760

INDEX OF SHEETS

SHEET	SHEET TITLE
1	TITLE SHEET
2	VICINITY MAP
3	GENERAL NOTES
4	ESTIMATE OF QUANTITIES
5	RECONSTRUCTION SUMMARY
6 - 8	DRAINAGE TYPICALS
9	DRAINAGE LISTING
10	CLEARING AND GRUBBING TYPICAL
11	RECONSTRUCTION DETAILS
12	DISPOSAL TYPICALS

CODY PHILLIPS
PROJECT ENGINEER
DESIGNER

CARLOS VELEZ
PROJECT ENGINEER
PEER REVIEWER

JOSH LATHAM
DESIGNATED ENGINEER

JON PRICE
ZONE ENGINEER

WALT HISLOP
FOREST ENGINEER

NIKKI SWANSON
DISTRICT RANGER

DATE

DATE

DATE

DATE

DATE

DATE



United States Department of Agriculture
Forest Service

R6
PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
1		
2		
3		
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PROJECT NAME

BITS GNA
SPECIFIED
ROADS

WILLAMETTE NATIONAL
FOREST

SWEET HOME RANGER DISTRICT

DRAWING TITLE

VICINITY MAP

DATE	ARCHIVE NO.
5/19/2020	
DESIGNER	DRAWING SHEET NO.
C. PHILLIPS	X-01
DRAWN	
C. PHILLIPS	
CHECKED	
J. LATHAM	
PROJECT NO.	SHEET 02 OF 12

R4E



BOP NFSR 2026335 MP 0.00

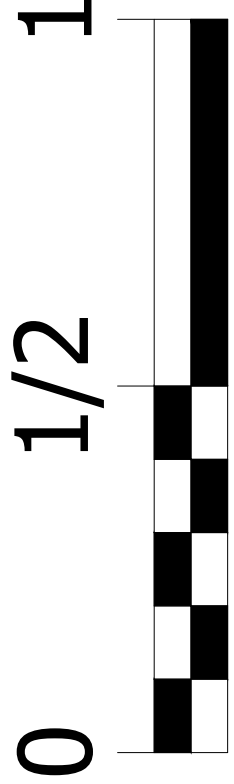
EOP NFSR 2026335 MP 2.28

FROM BOP, 15.5
MILES NORTH AND
13.6 MILES WEST
TO SWEET HOME
RANGER STATION

T15S

LEGEND

- PAVED ROADS
- OTHER ROADS
- OTHER ROADS
- PROJECT ROADS
- Water source
- Disposal area
- RIPRAP/BORROW SOURCE



Scale in miles

SPECIFIED ROADS GENERAL NOTES

1. ALL CULVERT INSTALLATIONS/REPLACEMENTS WITH FLOWING WATER ARE CONSIDERED STREAM CHANNELS. REPLACE CULVERTS WHEN STREAM CHANNELS ARE DRY OR DURING INSTREAM WORK WINDOW BETWEEN MAY 15TH TO OCTOBER 15TH.
2. SALVAGE AND STOCKPILE EXISTING AGGREGATE DURING CULVERT REMOVAL AND USE AS BEDDING AND INITIAL BACKFILL DURING INSTALLATION OF NEW CULVERT.
3. SPREAD COMMERCIAL SOURCED WEED FREE MULCH OVER DISTURBED SOIL AT ALL CULVERT INSTALLATIONS, FILL REPAIRS, DISPOSAL AREAS, AND OTHER DISTURBED SOIL SITES AS APPROVED BY THE CO. ALL DISTURBED/CONSTRUCTED SLOPES FLATTER THAN 1V:1H SHALL BE COVERED WITH MULCH. RECONDITIONED DITCHES DO NOT REQUIRE MULCH. MULCH SHALL BE APPLIED MINIMUM 1" THICK SO THAT NO GAPS EXIST BETWEEN SOIL AND MATRIX.
4. DESIGNATED DISPOSAL SITES ARE IDENTIFIED ON THE PLANS, OR AS STAKED BY THE CO. THE CO WILL FLAG THE DISPOSAL SITES OUTSIDE OF THE RIPARIAN RESERVES PRIOR TO PLACEMENT OF MATERIAL. UNSUITABLE MATERIAL ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION SHALL BE HAULED TO THE DISPOSAL SITE(S) AND SHALL BE SMOOTHED, SHAPED, AND COMPACTED TO DRAIN WITH CONSTRUCTION EQUIPMENT.
5. ALL NEW HDPE AND CMP CULVERT INSTALLATIONS REQUIRE PARTIAL BEVEL CUT TO THE INLET END (INCIDENTAL TO CORRESPONDING CULVERT INSTALLATION).
6. CONSTRUCTION TOLERANCE CLASS D FOR ALL ROADS.
7. THE SUBMITTED TRAFFIC CONTROL PLAN SHALL INCLUDE METHODS TO WARN PUBLIC TRAFFIC OF WORK ACTIVITIES. ALL CONSTRUCTION SIGNS AND PLACEMENTS SHALL MEET MUTCD REQUIREMENTS.
8. USE OF ROADS BY COMMERCIAL USERS WITH LOADS EXCEEDING OREGON STATE LEGAL LOADING LIMIT FOR A SINGLE TRIP PERMIT AND THAT WILL CROSS BRIDGES UNDER FOREST SERVICE JURISDICTION SHALL APPLY FOR A BRIDGE OVERLOAD USE PERMIT (FSM 7736.05). PROCESSING APPLICATIONS FOR BRIDGE OVERLOAD PERMITS MAY TAKE THIRTY (30) DAYS OR LONGER. CONTACT THE CO FOR BRIDGE OVERLOAD USE PERMIT.
9. ALL TREE REMOVAL REQUIRED FOR ALL WORK ITEMS IS AN INDIRECT COST TO THE CORRESPONDING WORK ITEM. LIMB AND DECK ALL MERCHANTABLE TIMBER AT LOCATIONS APPROVED BY THE CO.
10. CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL UNSUITABLE MATERIAL WITH UNCLASSIFIED BORROW AS NECESSARY TO COMPLETE WORK ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE FOR ACQUIRING UNCLASSIFIED BORROW, PLACEMENT, OR DISPOSAL OF UNSUITABLE MATERIALS ENCOUNTERED.
11. PERFORM CONSTRUCTION IN CONFORMANCE WITH STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL LANDS - FP14 U.S. CUSTOMARY UNITS.
12. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES (PUBLIC AND PRIVATE) PRIOR TO BEGINNING EXCAVATION. CALL "OREGON UTILITY NOTIFICATION CENTER" AT 811 OR 1-800-332-2344. DAMAGE RESULTING FROM OPERATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
13. WATER FOR FIRE OR CONSTRUCTION ACTIVITY SHALL BE DRAWN FROM IDENTIFIED SOURCES AS SHOWN ON THE VICINITY MAP OR AS LISTED IN THE PLANS AND SPECIFICATIONS. ALL WATER WITHDRAWALS FOR FIRE OR CONSTRUCTION SHALL ABIDE BY CURRENT NMFS WATER DRAFTING GUIDELINES. AT A MINIMUM, ANY WATER WITHDRAWAL IN ACTIVE STREAMS WITH FISH PRESENT SHALL HAVE SCREENED INTAKES WITH MAXIMUM SCREEN OPENING OF 3/32 INCH (2.38MM), MAXIMUM INTAKE VELOCITY OF 0.4 FEET PER SECOND, AND WILL NOT REDUCE STREAM FLOW BY MORE THAN 10% BY VISUAL MEASURE. WATER WITHDRAWAL FROM ANY OTHER SOURCE SHALL BE APPROVED PRIOR TO USE BY THE CO.
14. STORAGE OF CONTRACTORS EQUIPMENT ON GOVERNMENT LANDS SHALL BE AT THE CONTRACTORS RISK AND AT LOCATIONS APPROVED BY THE CO.
15. DEPTH OF SOIL AND AGGREGATE GIVEN AS FINAL COMPACTED DEPTH.
16. LIMB AND DECK ALL MERCHANTABLE TIMBER RECOVERED FROM THE DITCH DURING ROADWAY RECONDITIONING AT LOCATIONS APPROVED BY THE CO.
17. ALL MATERIAL RECOVERED FROM THE DITCH DURING ROADWAY RECONDITIONING CAN BE USED AS BORROW OR HAULED TO THE APPROVED WASTE SITE IDENTIFIED ON THE VICINITY MAP.

ABBREVIATIONS

- CMP: CORRUGATED METAL PIPE
- HDPE: HIGH DENSITY POLYETHYLENE
- MUTCD: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- BOP: BEGINNING OF PROJECT
- EOP: END OF PROJECT
- NFSR: NATIONAL FOREST SYSTEM ROAD
- CO: CONTRACTING OFFICER



United States Department of Agriculture
Forest Service

R6
PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS		
NO.	REVISION /ISSUE	DATE

PROJECT NAME
**BITS GNA
SPECIFIED
ROADS**

**WILLAMETTE NATIONAL
FOREST**

SWEET HOME RANGER DISTRICT

DRAWING TITLE
GENERAL NOTES

DATE	ARCHIVE NO.
5/19/2020	
DESIGNER	DRAWING SHEET NO.
C. PHILLIPS	
DRAWN	X-01
C. PHILLIPS	
CHECKED	PROJECT NO.
J. LATHAM	
PROJECT NO.	SHEET 03 OF 12



United States Department of Agriculture
Forest Service

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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE	

PROJECT NAME

**BITS GNA
SPECIFIED
ROADS**

**WILLAMETTE NATIONAL
FOREST**

SWEET HOME RANGER DISTRICT

DRAWING TITLE

**ESTIMATE OF
QUANTITIES**

DATE	ARCHIVE NO.	DRAWING SHEET NO.
5/19/2020		
DESIGNER	C. PHILLIPS	X-01
DRAWN	C. PHILLIPS	
CHECKED	J. LATHAM	
PROJECT NO.		SHEET 04 OF 12

NFSR		2026335 MP 0.00-2.28		REMARKS
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITIES	
15101	MOBILIZATION	LUMP SUM	ALL	INCLUDES FIRE PROTECTION, EQUIPMENT CLEANING, AND TEMPORARY TRAFFIC CONTROL.
15713	SOIL EROSION AND POLLUTION CONTROL	LUMP SUM	ALL	MULCHING OF ALL DISTURBED AREAS INCLUDING DISPOSAL SITES AS REQUIRED. STRAW MUST BE WEED FREE CERTIFIED. INDIRECT PAY FOR DEWATERING INCLUDED AS REQUIRED IF THERE IS STREAM FLOW.
20103	CLEARING AND GRUBBING; DISPOSAL METHOD: TOPS AND LIMBS (f), LOGS (j), STUMPS (f)	MILE	2.28	
20302	REMOVAL OF STRUCTURE, DISPOSAL METHOD (a), COMPACTION METHOD (NA)	EACH	2	REMOVE FROM NATIONAL FOREST LANDS.
25104	KEYED RIPRAP, CLASS 2	CUBIC YARD*	2	GOVERNMENT FURNISHED OR COMMERCIAL SOURCE. BORROW SOURCE NOTED ON VICINITY MAP.
30201	AGGREGATE BASE, GRADING B, COMPACTION METHOD (b), PLACEMENT METHOD 2	CUBIC YARD*	10	COMMERCIAL SOURCE.
30315	ROADWAY RECONDITIONING, COMPACTION METHOD 2	MILE	2.28	INCLUDES RECONDITIONING OF ROADBED, DITCH, CULVERT INLETS, OUTLETS, CATCH BASINS, AGGREGATE SURFACE, TURNOUTS, AND SHOULDERS.
60201	24-INCH CORRUGATED ALLUMINIZED METAL PIPE, TYPE 2, GAGE (NA), COMPACTION METHOD 2	FOOT	37	COMMERCIAL SOURCE.
60402	INLET, DROP INLET, COMPACTION METHOD (e)	FOOT	12	COMMERCIAL SOURCE. 36" x 4' EACH
60708	CLEANING CULVERTS IN PLACE	EACH	1	REMOVE AND DISPOSE OF ALL FOREIGN MATERIAL WITHIN THE BARREL OF THE CULVERT BY ANY METHOD THAT DOES NOT DAMAGE THE CULVERT.

* DENOTES CONTRACT QUANTITY



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STAMPS, LOGOS, AND SEALS

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PROJECT NAME
**BITS GNA
SPECIFIED
ROADS**

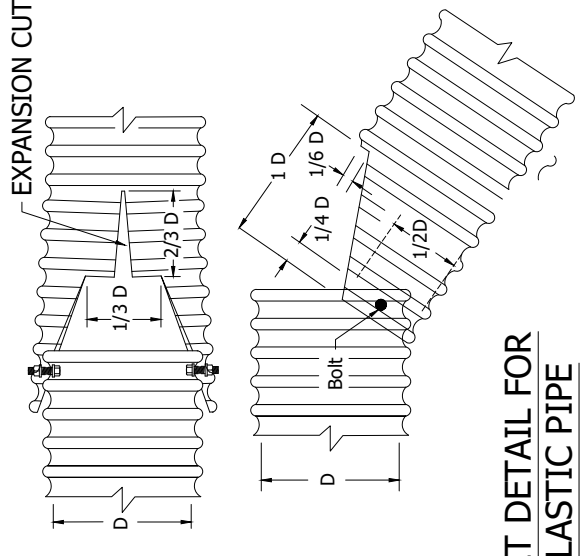
**WILLAMETTE NATIONAL
FOREST**

SWEET HOME RANGER DISTRICT

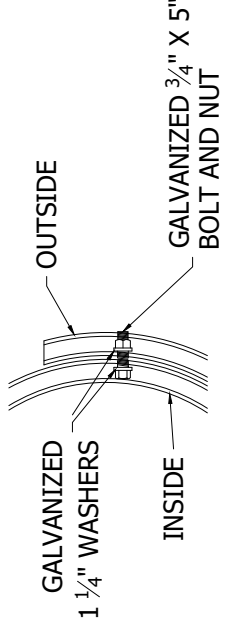
DRAWING TITLE
DRAINAGE TYPICALS

DATE	ARCHIVE NO.
5/19/2020	
DESIGNER	DRAWING SHEET NO.
C. PHILLIPS	X-01
DRAWN	
C. PHILLIPS	
CHECKED	
J. LATHAM	
PROJECT NO.	SHEET 06 OF 12

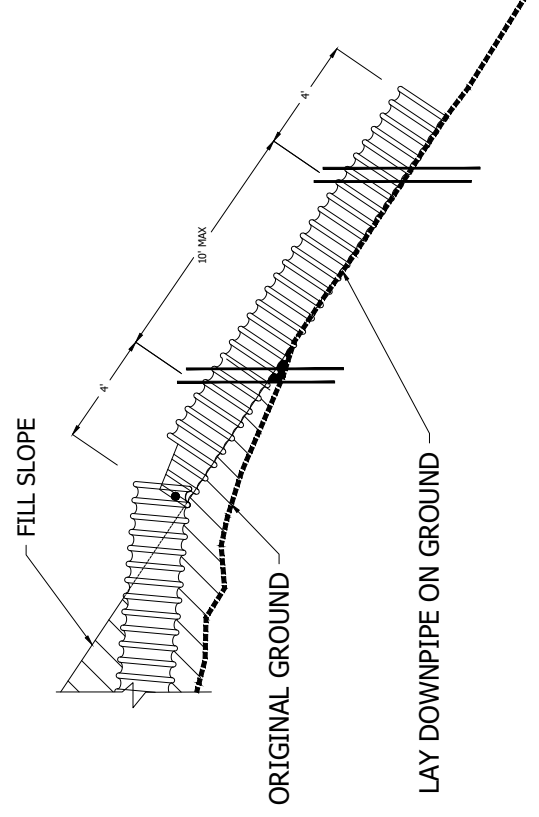
**TURNER ELBOW DETAILS
FOR PLASTIC PIPE**



**BOLT DETAIL FOR
PLASTIC PIPE**

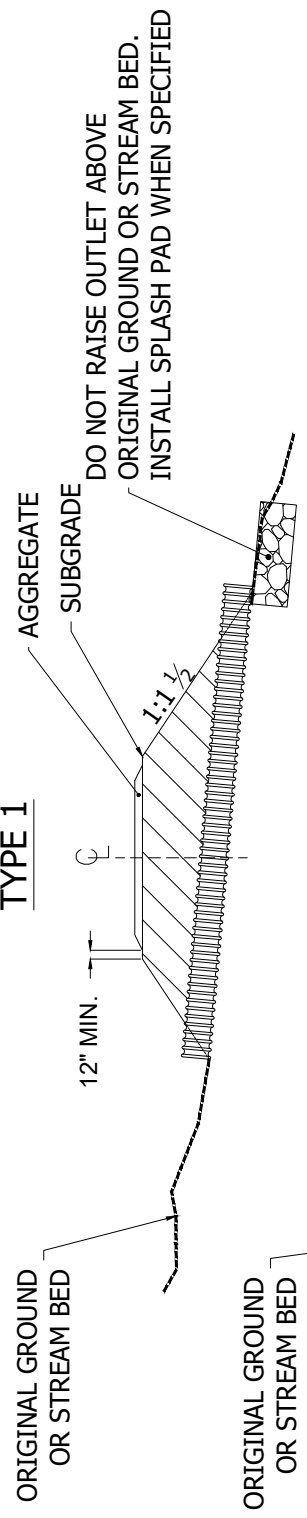


ANCHOR DETAILS

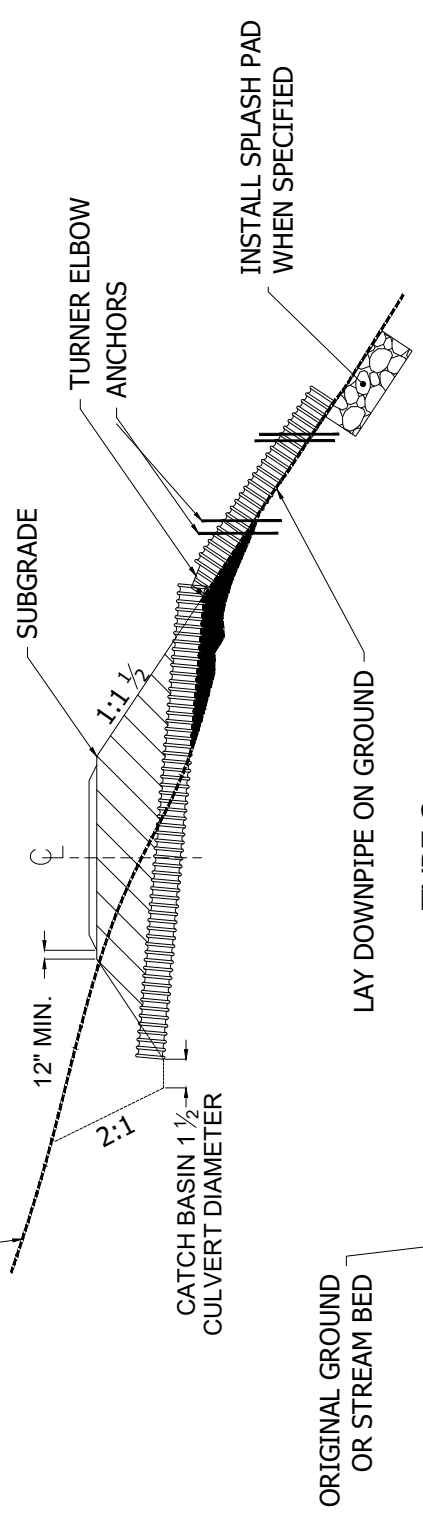


CULVERT TYPES

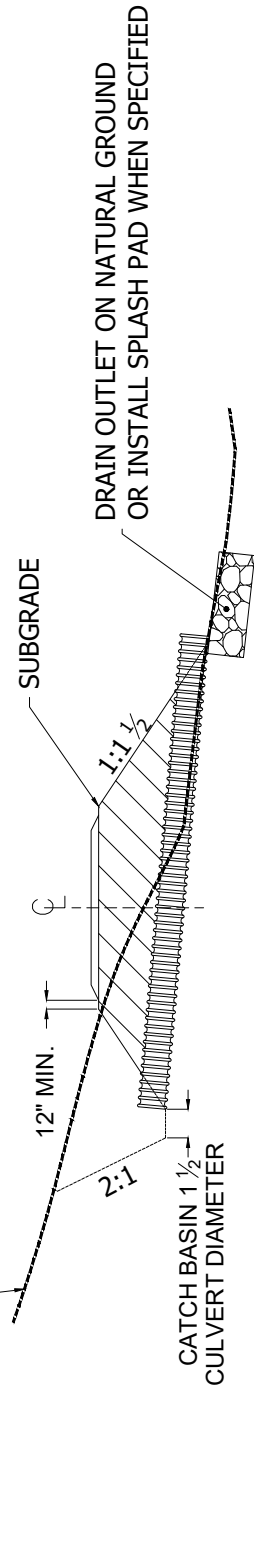
TYPE 1



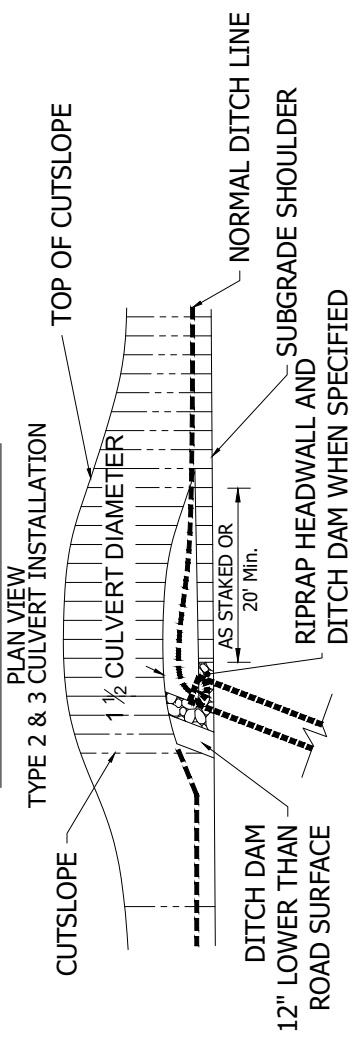
TYPE 2



TYPE 3



CATCH BASIN DETAIL



NOTES:
ELBOWS AND ANCHORS ARE INDIRECTLY INCLUDED IN THE PAY ITEM FOR THE CORRESPONDING OUTLET PIPE. ANCHORS SETS CONSIST OF TWO STEEL 6 FT FENCE POSTS (AASHTO M 281) AND NO. 9 GALVANIZED WIRE. DRIVE POSTS A MINIMUM 2 FT INTO THE GROUND. PROVIDE 3 STRANDS OF WIRE TWISTED TOGETHER AND ENCOMPASS THE ENTIRE CIRCUMFERENCE OF THE PIPE AND FENCE POSTS.

NOTES:
1. DRAWING NOT TO SCALE.
2. SOME INSTALLATIONS OF CULVERTS MAY REQUIRE ADDITIONAL EXCAVATION BELOW GRADE LINE.
3. ALL CULVERT INSTALLATIONS REQUIRE 12" MINIMUM COVER TO SUBGRADE.



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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS

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PROJECT NAME

BITS GNA
SPECIFIED
ROADS

WILLAMETTE NATIONAL
FOREST

SWEET HOME RANGER DISTRICT

DRAWING TITLE

DRAINAGE TYPICALS

DATE ARCHIVE NO.

DESIGNER

DRAWING SHEET NO.

DRAWN

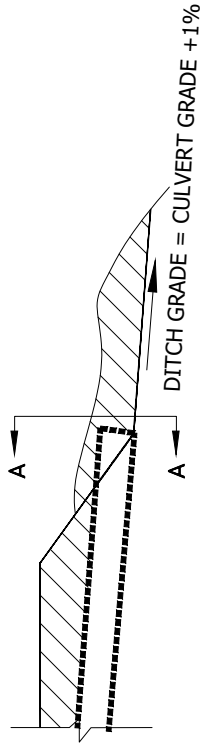
X-01

CHECKED

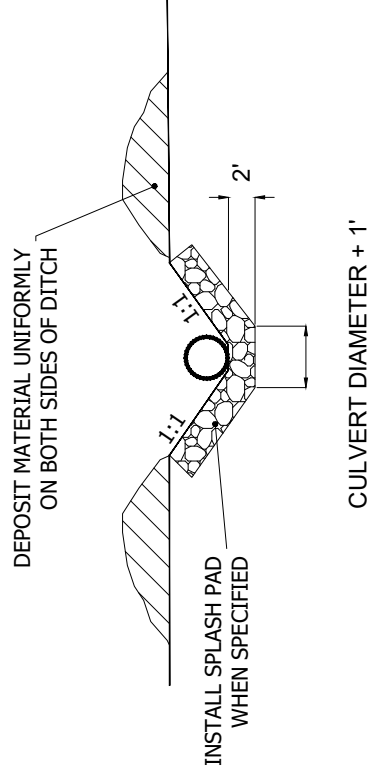
PROJECT NO.

SHEET 07 OF 12

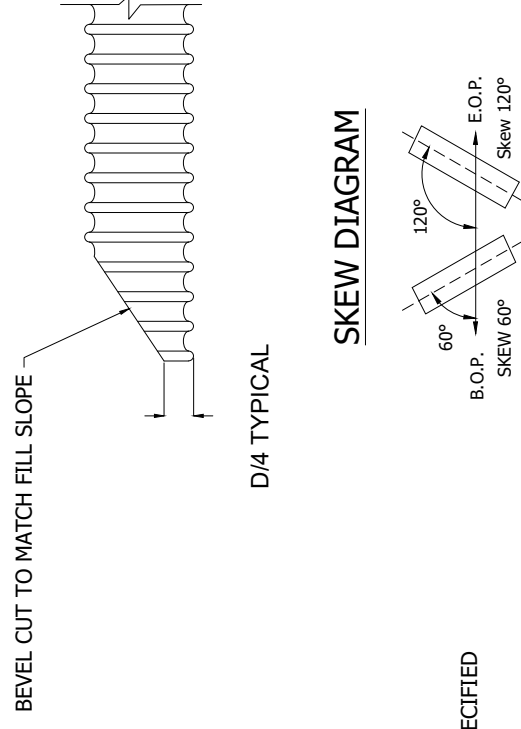
CULVERT OUTLET DITCH



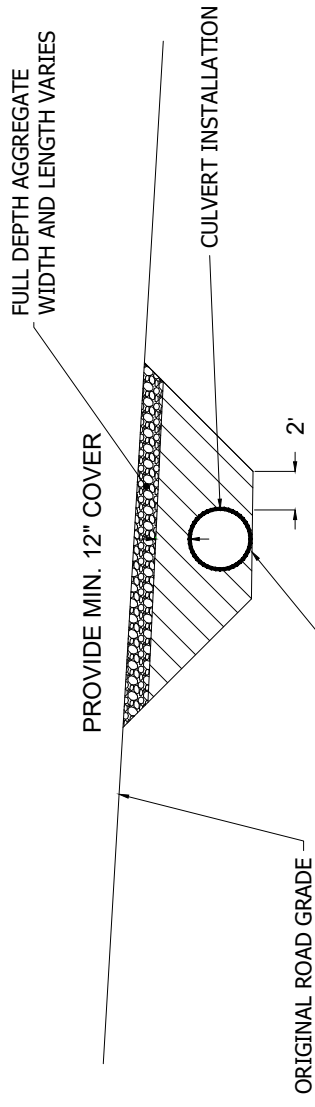
CULVERT OUTLET DITCH SECTION A-A



PARTIAL BEVELED INLET DETAIL

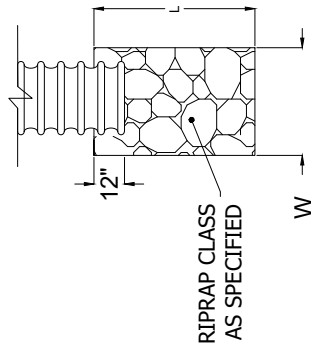


CULVERT SURFACE ROCK
REPLACEMENT

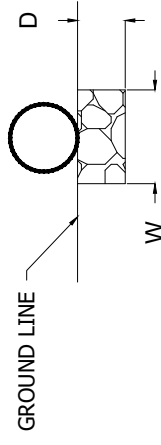


BEDDING REQUIRED,
FP-03 (209.09) & FSSS 704.02

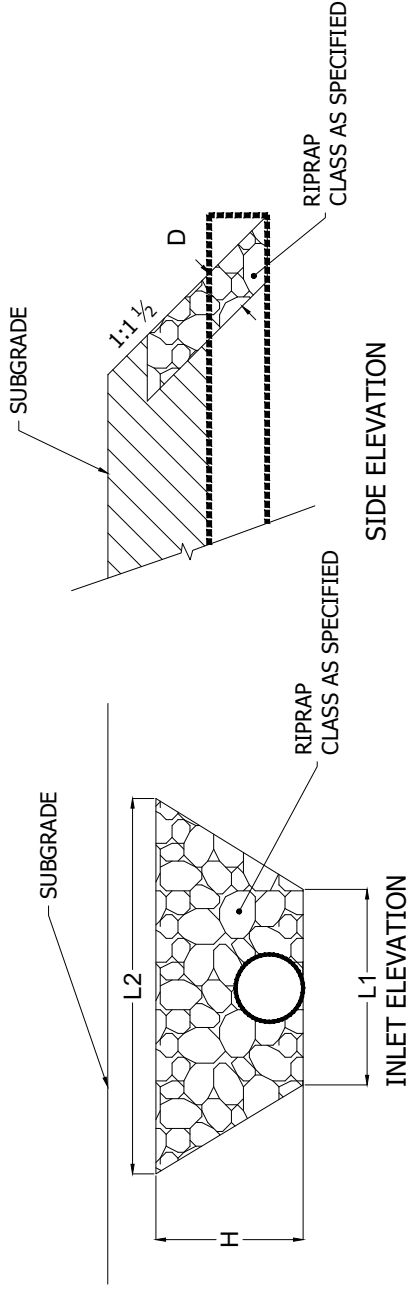
SPLASH PAD
PLAN VIEW



SPLASH PAD
ELEV. VIEW



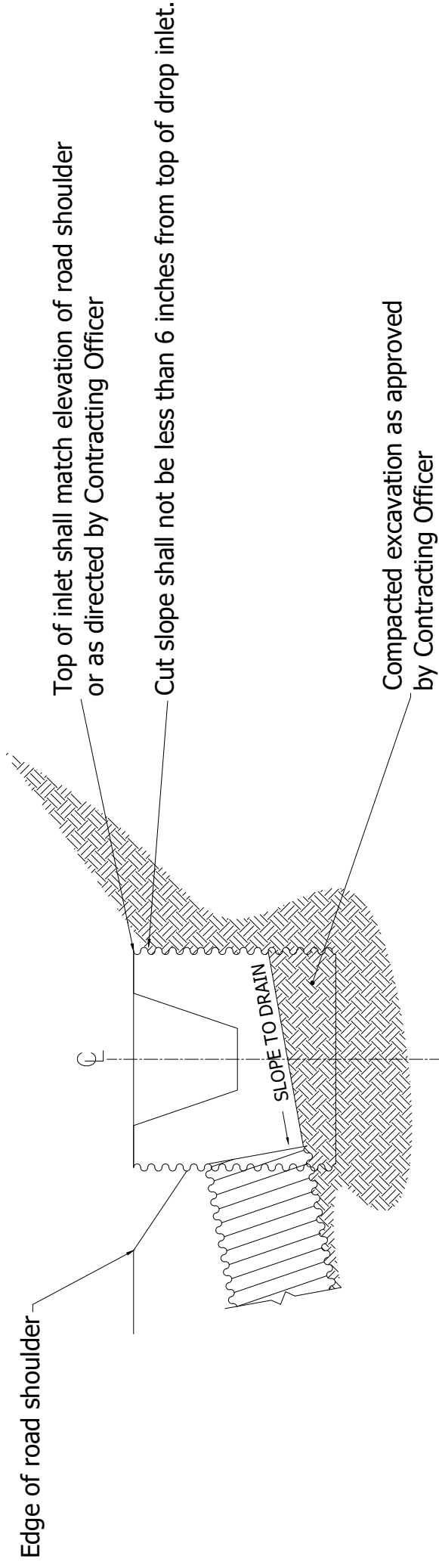
RIPRAP HEADWALL



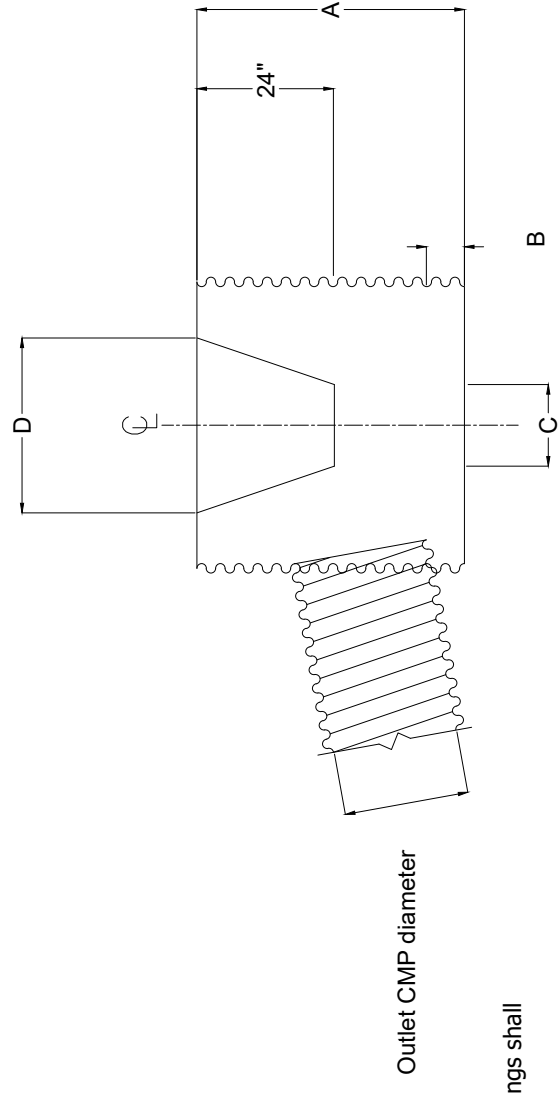
NOTES:

1. DRAWING NOT TO SCALE.
2. SOME INSTALLATIONS OF CULVERTS MAY REQUIRE ADDITIONAL EXCAVATION BELOW GRADE LINE.
3. ALL CULVERT INSTALLATIONS REQUIRE 12" MINIMUM COVER TO SUBGRADE.

DROP INLET INSTALLATION DETAIL



FABRICATION DETAILS



- NOTES:**
1. Drawings not to scale.
 2. Openings may be field cut. Total area of openings shall not be less than shown.
 3. Where spelter coating has been bruised or broken in the shop, during shipping or by field cutting, repairs shall be in accordance with AASHTO M36.
 4. Additional field cuts may be necessary to drain. Each drop inlet's final location, as well as field cuts, shall be field verified by the contractor and approved by the Contracting Officer.
 5. All work and materials required to construct/fabricate spillway assemblies are considered to be indirect to the applicable pay items.



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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS

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△ 1			
NO.	REVISION / ISSUE	DATE	

PROJECT NAME
BITS GNA SPECIFIED ROADS

WILLAMETTE NATIONAL FOREST

SWEET HOME RANGER DISTRICT

DRAWING TITLE
DRAINAGE TYPICALS

DATE	ARCHIVE NO.
5/19/2020	
DESIGNER	DRAWING SHEET NO.
C. PHILLIPS	X-01
DRAWN	
C. PHILLIPS	
CHECKED	
J. LATHAM	
PROJECT NO.	SHEET 08 OF 12

DROP INLET DIMENSION TABLE					
OUTLET PIPE DIAMETER	INLET DIAMETER & THICKNESS	A	B	C	D
18"-24"	36"-0.109"	4 FT	6"	12"	24"



United States Department of Agriculture
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PACIFIC NORTHWEST REGION

ROAD NUMBER	DESIGNED				AS BUILT			INSTALLATION DETAILS			RIPRAP		CULVERT OUTLET DITCH (FT)	CLEAN EXISTING CULVERT	CRUSHED AGGREGATE		ESTIMATED EXCAVATION DEPTH AT ROAD CENTERLINE (FT)	REMARKS
	STATION OR MILE POST	PIPE DIAMETER (INCH)	PIPE LENGTH (FT)	OUTLET PIPE FULL CIRCLE (FT)	DROP INLET LENGTH (FT)	STATION OR MILE POST	DIAMETER	PIPE LENGTH (FT)	OUTLET PIPE FULL CIRCLE (FT)	TYPE	SKEW (°)	GRADE (%)			HEADWALL (CY)	KEYED SPLASH PAD (CY)		
2026335	0.79				4									X			36" x 4'	
	1.17				4												36" x 4'	
	1.75	24	37		4				#	#	#		2		8	10	36" x 4'	

DENOTES SKEW, GRADE, AND TYPE SHALL MATCH REMOVED INSTALLATION UNLESS OTHERWISE NOTED.
SOME INSTALLATIONS OF CULVERTS MAY REQUIRE ADDITIONAL EXCAVATION BELOW EXISTING GRADE LINE

STAMPS, LOGOS, AND SEALS			
△1			
△2			
△3			
△4			
NO.	REVISION / ISSUE	DATE	

PROJECT NAME
**BITS GNA
SPECIFIED
ROADS**

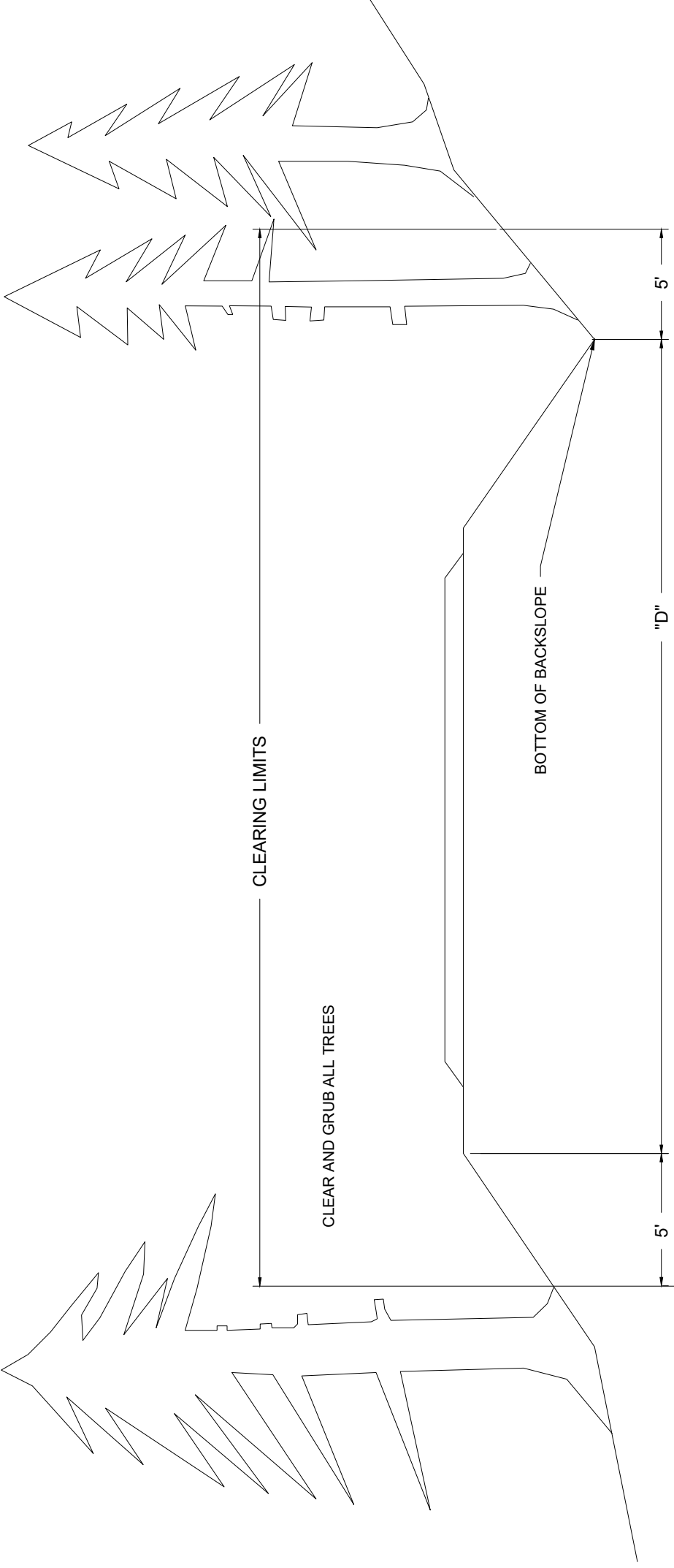
WILLAMETTE NATIONAL FOREST

SWEET HOME RANGER DISTRICT

DRAWING TITLE
DRAINAGE LISTING

DATE	5/19/2020
ARCHIVE NO.	
DESIGNER	C. PHILLIPS
DRAWING SHEET NO.	X-01
DRAWN	C. PHILLIPS
CHECKED	J. LATHAM
PROJECT NO.	
	SHEET 09 OF 12

CLEARING AND GRUBBING TYPICAL
TYPICAL SECTION



NOTES:

1. LEAVE TREES OVER 8 INCHES IN DIAMETER AS MEASURED AT 4 1/2' ABOVE THE GROUND THAT ARE BEYOND THE BOTTOM OF DITCH AND BEYOND HINGE POINT ON THE FILL SLOPE SIDE. LIMB TO 14 FEET ABOVE THE ROAD SURFACE.
2. REMOVE TREES AND GRUB STUMPS WITHIN "D". HAUL TO DESIGNATED DISPOSAL AREAS OR AS NOTED ON THE WORK DESCRIPTIONS.
3. CUT ALL VEGETATION TO A MAXIMUM HEIGHT OF 6 INCHES ABOVE THE GROUND SURFACE.
4. ROADS MECHANICALLY CLEARED MAY REQUIRE MANUAL SCATTERING OF CUT MATERIAL BEYOND THE CLEARING LIMITS.



United States Department of Agriculture
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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS

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1		

PROJECT NAME

**BITS GNA
SPECIFIED
ROADS**

**WILLAMETTE NATIONAL
FOREST**

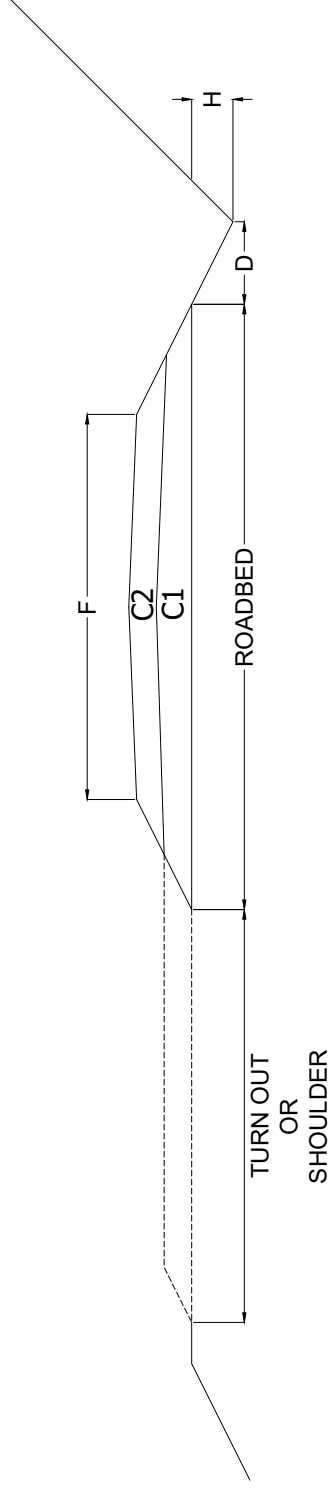
SWEET HOME RANGER DISTRICT

DRAWING TITLE

**CLEARING AND
GRUBBING TYPICAL**

DATE	5/19/2020	ARCHIVE NO.	
DESIGNER	C. PHILLIPS	DRAWING SHEET NO.	X-01
DRAWN	C. PHILLIPS		
CHECKED	J. LATHAM		
PROJECT NO.		SHEET	10 OF 12


TYPICAL SECTION FOR ROAD RECONSTRUCTION



ROAD NUMBER	BEGINNING MILE POST	ENDING MILE POST	CONSTRUCTION TOLERANCE	OUTSLOPED INSLOPED CROWNED	ROADBED WIDTH (FT)	DITCH DIMENSIONS (FT)		PAVEMENT STRUCTURE				REMARKS		
						D	H	TRAVELED WAY WIDTH (FT)	GRADATION	COMPACTED DEPTH (IN)	SLOPE RATIO			
				%				F	C1	C2	C1	C2	AGG V:H	
2026335	0.00	2.28	D	5% CROWNED	14*	2	1	12*		B		8	1:2	

*DIMENSIONS MAY BE ADJUSTED BY THE CONTRACTING OFFICER TO FIT FIELD CONDITIONS.

NOTES:
1. Drawing not to scale.



USDA
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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS

△ 4					
△ 3					
△ 2					
△ 1					
NO.	REVISION / ISSUE	DATE			

PROJECT NAME
BITS GNA SPECIFIED ROADS

WILLAMETTE NATIONAL FOREST

SWEET HOME RANGER DISTRICT

DRAWING TITLE
RECONSTRUCTION DETAILS

DATE	5/19/2020	ARCHIVE NO.	
DESIGNER	C. PHILLIPS	DRAWING SHEET NO.	
DRAWN	C. PHILLIPS	X-01	
CHECKED	J. LATHAM		
PROJECT NO.		SHEET 11 OF 12	



United States Department of Agriculture
Forest Service

R6

PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS

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PROJECT NAME

**BITS GNA
SPECIFIED
ROADS**

**WILLAMETTE NATIONAL
FOREST**

SWEET HOME RANGER DISTRICT

DRAWING TITLE

DISPOSAL TYPICALS

DATE ARCHIVE NO.

DESIGNER

DRAWING SHEET NO.

DRAWN

CHECKED

PROJECT NO.

5/19/2020

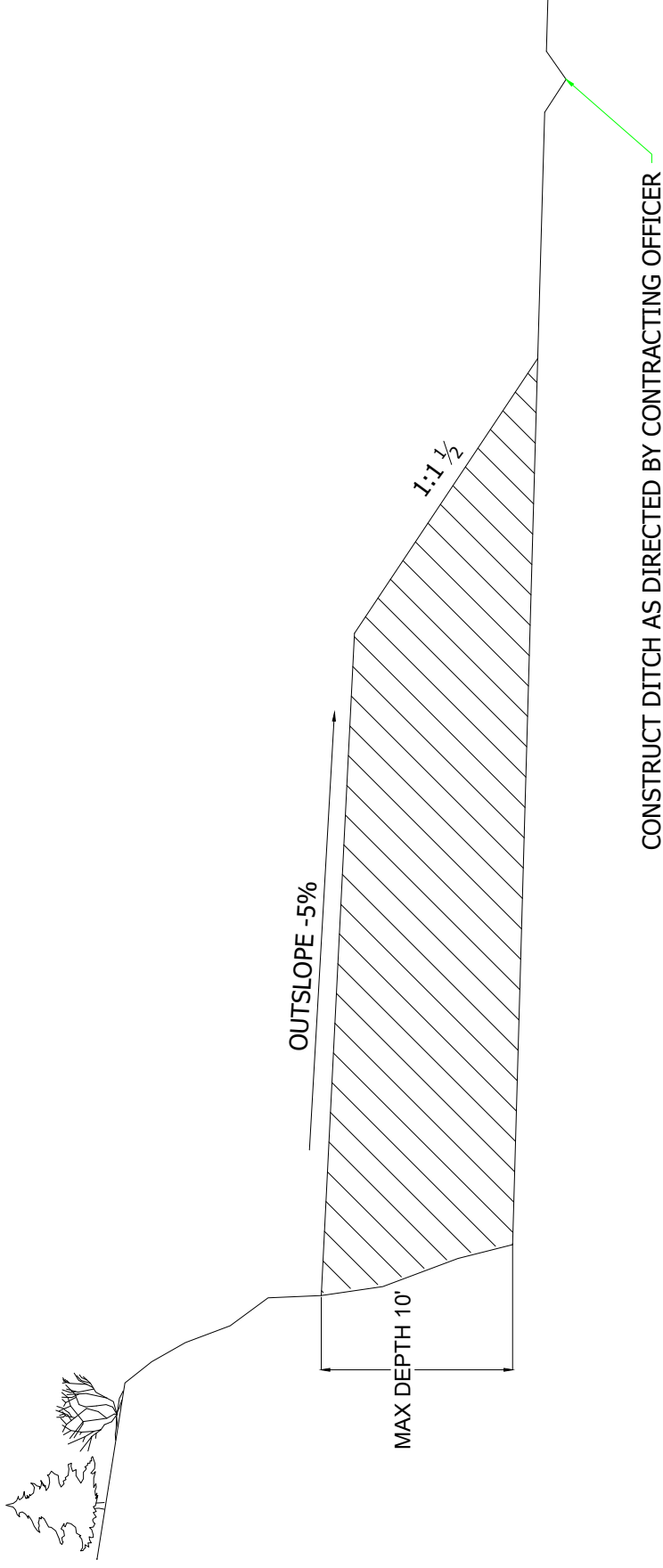
C. PHILLIPS

C. PHILLIPS

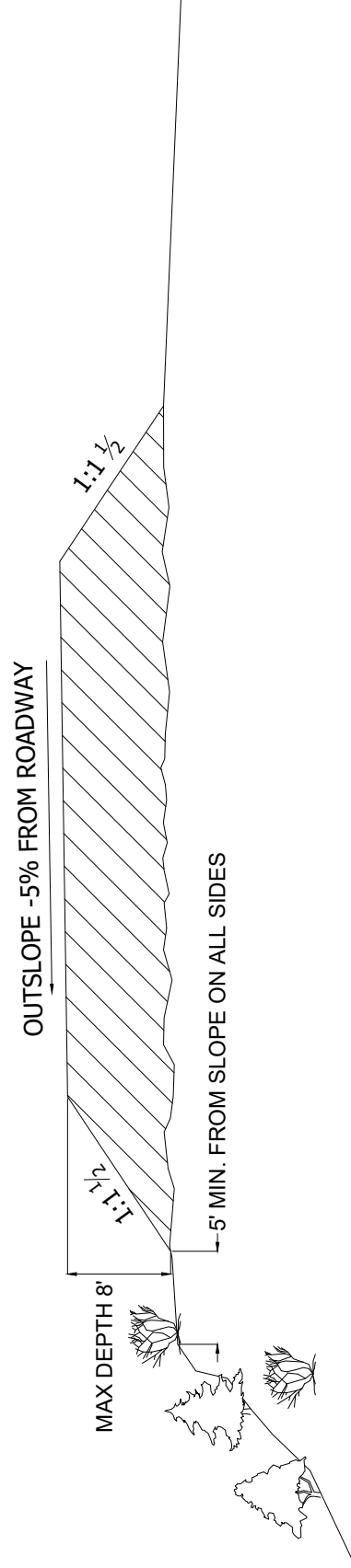
J. LATHAM

X-01

SHEET 12 OF 12



TYPICAL DISPOSAL AREA WITH OPEN AREA



- NOTES:
1. DRAWING NOT TO SCALE.
 2. DISPOSAL AREA LIMITS TO BE STAKED BY THE CONTRACTING OFFICER.
 3. MULCH THE DISPOSAL AREA.

**U.S. DEPARTMENT OF AGRICULTURE – FOREST SERVICE
BRIDGE USE APPLICATION AND PERMIT
36CFR 261.12, and 261.54(c)**

DATE RECEIVED: _____	EFFECTIVE DATES OF PERMIT _____	(Section for Forest Service Use Only)
PERMIT NO.: _____	BEGINNING: _____	TERMINATING: _____
		EXCLUDING: _____

PERMITTEE/APPLICANT: _____ PHONE: _____
 ADDRESS: _____ FAX: _____

REASON FOR PERMIT: TIMBER SALE: _____
 CONSTRUCTION CONTRACT: _____
 OTHER: _____

DESIRED TRAVEL DATES: BEGIN: _____ END: _____
 DESIRED TRAVEL ROUTE (Road #'s, Termini & Bridges): Canyon Cr. #1, Owl Cr. #1, and Boundary Cr.
 Bridges on 2026000 (Owl Creek Road) _____

=====

TYPE OF VEHICLE: _____
 TOTAL GROSS WEIGHT: _____ POUNDS LICENSE NO: _____ STATE: _____
 MAXIMUM DIMENSIONS: LENGTH: _____ WIDTH: _____ HEIGHT: _____

VEHICLE DESCRIPTION

AXLE NO.	AXLE SPACING FEET & INCHES	AXLE LOAD POUNDS	AXLE WIDTH (OUT – OUT)		TIRE WIDTH (OUT-OUT)	NO. OF TIRES PER AXLE	TIRE SIZE
			FEET	INCHES	PER WHEEL LINE INCHES		
<u>1</u>	U1 _____ "	P1 _____	_____	_____ "	_____ "	_____	_____
<u>2</u>	U2 _____ "	P2 _____	_____	_____ "	_____ "	_____	_____
<u>3</u>	U3 _____ "	P3 _____	_____	_____ "	_____ "	_____	_____
<u>4</u>	U4 _____ "	P4 _____	_____	_____ "	_____ "	_____	_____
<u>5</u>	U5 _____ "	P5 _____	_____	_____ "	_____ "	_____	_____
<u>6</u>	U6 _____ "	P6 _____	_____	_____ "	_____ "	_____	_____
<u>7</u>	U7 _____ "	P7 _____	_____	_____ "	_____ "	_____	_____
<u>8</u>	D8 _____ "	P8 _____	_____	_____ "	_____ "	_____	_____
<u>9</u>	D9 _____ "	P9 _____	_____	_____ "	_____ "	_____	_____
<u>10</u>		P10 _____	_____	_____ "	_____ "	_____	_____

SIGNATURE OF APPLICANT: _____
 SIGNATURE: _____

 (Print Name)
 TITLE: _____
 DATE: _____

NAME OF REGISTERED PROFESSIONAL ENGINEER EVALUATING BRIDGE(S)
 FOR ABOVE VEHICLE: _____ (PE)
FOREST BRIDGE INSPECTION PROGRAM MANAGER RECOMMENDATION
 AND REGIONAL BRIDGE ENGINEER CONCURRENCE
 SUBJECT TO PROVISIONS AND ATTACHMENTS INCLUDED HEREIN
 SIGNATURE: _____ DATE: _____
 Forest Bridge Inspection Program Manager
 SIGNATURE: _____ DATE: _____
 R-6 Regional Bridge Engineer

APPROVAL OF PERMIT

PERMISSION IS HEREBY GIVEN TO THE ABOVE APPLICANT FOR THE USE OF THE DESIGNATED BRIDGE(S) IN THE MANNER DESCRIBED, SUBJECT TO THE PROVISIONS AND ATTACHMENTS INCLUDED WITH THIS PERMIT

SIGNATURE: _____ DATE: _____
 TITLE: _____
 Forest Supervisor