

Washington DNR Timber Sales Program

Updated information is being provided for **Driftwood Delight** timber sale documents as follows:

Documents amended:

Brief Description	DATE	Initials
Updated Road Plan.	01/27/2025	SG



TIMBER NOTICE OF SALE

SALE NAME: DRIFTWOOD DELIGHT

AGREEMENT NO: 30-106463

AUCTION: February 26, 2025 starting at 10:00 a.m.,
Olympic Region Office, Forks, WA

COUNTY: Clallam

SALE LOCATION: Sale located approximately 5 miles West of Clallam Bay, WA

**PRODUCTS SOLD
AND SALE AREA:**

All timber, except trees marked with a band of blue paint, or bounded out by Leave Tree Area tags, bounded by Timber Sale Boundary tags, no downed redcedar, or timber that has been on the ground for five years or more, five years is defined by more than 1.5 inches of sap rot and all trees 60 inches or larger measured at diameter at breast height; Timber Type Change in Unit 1; bounded by Timber Sale Boundary Tags and Timber Type Change in Unit 2; bounded by Timber Sale Boundary tags in Unit 3.

In no instance shall downed redcedar be removed.

All forest products above located on part(s) of Sections 19 all in Township 32 North, Range 12 West, Sections 25 and 26 all in Township 32 North, Range 13 West, W.M., containing 178 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg DBH	Ring Count	Total MBF	MBF by Grade								
				1P	2P	3P	SM	1S	2S	3S	4S	UT
Hemlock	17.9	6	2,751						1,654	869	181	46
Douglas fir	19.3	6	972						567	333	67	5
Red alder	15.4		490						106	166	120	99
Spruce	18.6		471						327	113	17	15
Maple	21.7		15						11			4
Sale Total			4,699									

MINIMUM BID: \$535,000.00

BID METHOD: Sealed Bids

**PERFORMANCE
SECURITY:**

\$100,000.00

SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2027

ALLOCATION: Export Restricted

BID DEPOSIT: \$53,500.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Ground: 86%, Cable: 14%

30' Equipment Limitation Zones on all typed water, shovel logging and cable assist/tethered logging must meet rutting and skidding requirements and have an approved harvest plan. Forest products sold under this contract shall be harvested and removed using cable, cable-tethered, and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75 percent and less. Ground based equipment



TIMBER NOTICE OF SALE

is limited to tracked equipment on sustained slopes that are 45 percent and less. Rubber tired skidders are restricted unless approved by the Contract Administrator.

ROADS:

43.20 stations of optional construction. 26.40 stations of optional reconstruction. 281.55 stations of optional prehaul maintenance. C1, live water pipe installation on the CP-481F is restricted from October 1- June 30. C2, bridge installation on the CP-481F1 restricted from October 1 - June 30.

All operations are restricted October 1 - June 30. The hauling of forest products will not be permitted from October 15 - April 15 unless authorized in writing by the Contract Administrator.

ACREAGE DETERMINATION

CRUISE METHOD: Sale acreage was 99% GPS'd, 1% estimated. Sale units were cruised using a variable plot sample.

FEES:

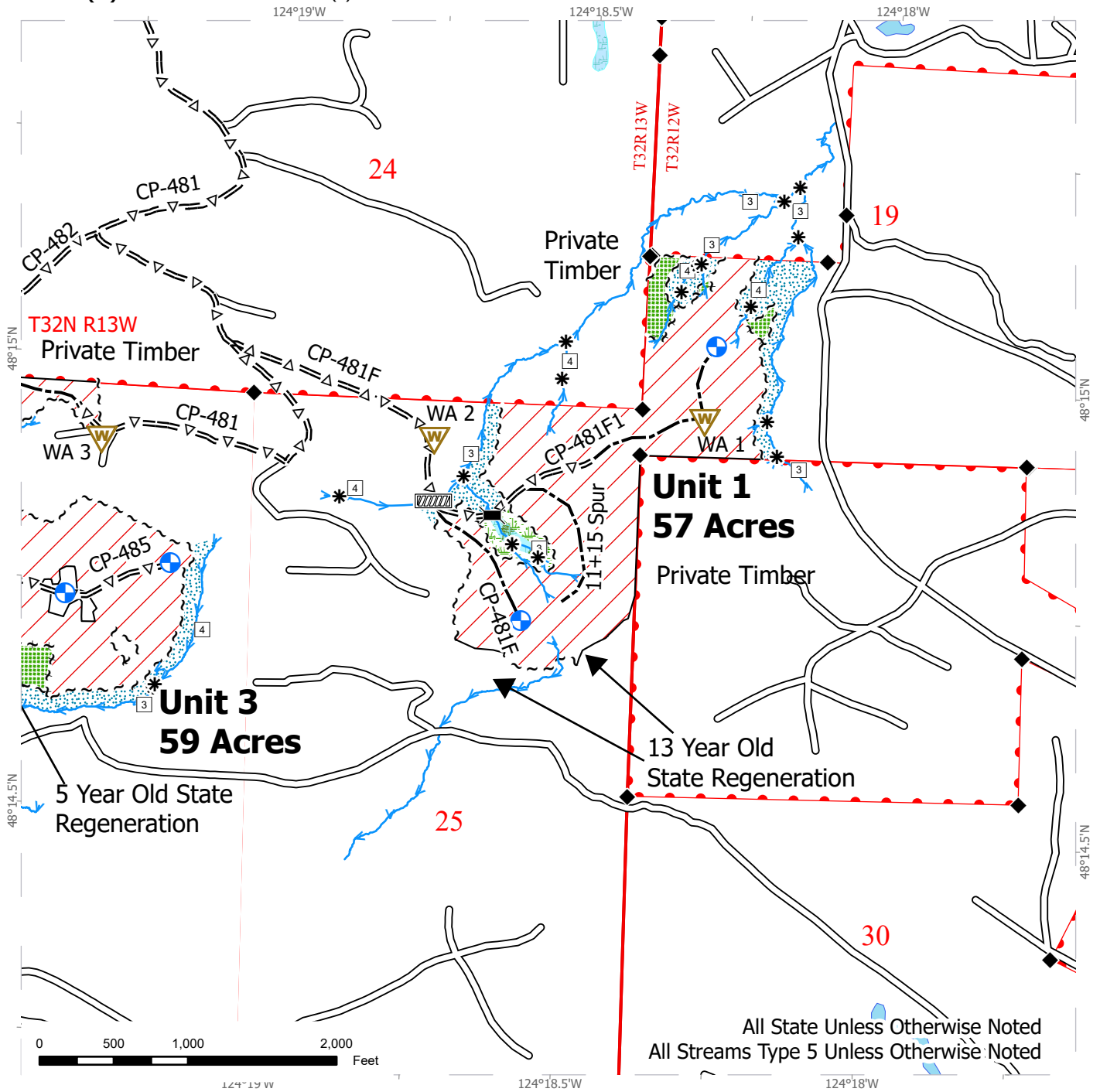
Within 14 days of sale contract, purchaser must provide the DNR with a cashier's checks made payable to Olympic Peninsula Timberlands, LLC for \$31,362.85 for Road Use Permit 55-107856. \$79,883.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Locked gates located at Mary Clark Pit and CP-480. Contact Olympic Region Dispatch Center at (360) 374-2800 to obtain an AA1 key.

TIMBER SALE MAP

SALE NAME: DRIFTWOOD DELIGHT
AGREEMENT #: 30-106463
TOWNSHIP(S): T32R12W, T32R13W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 120'-800'



All State Unless Otherwise Noted
 All Streams Type 5 Unless Otherwise Noted

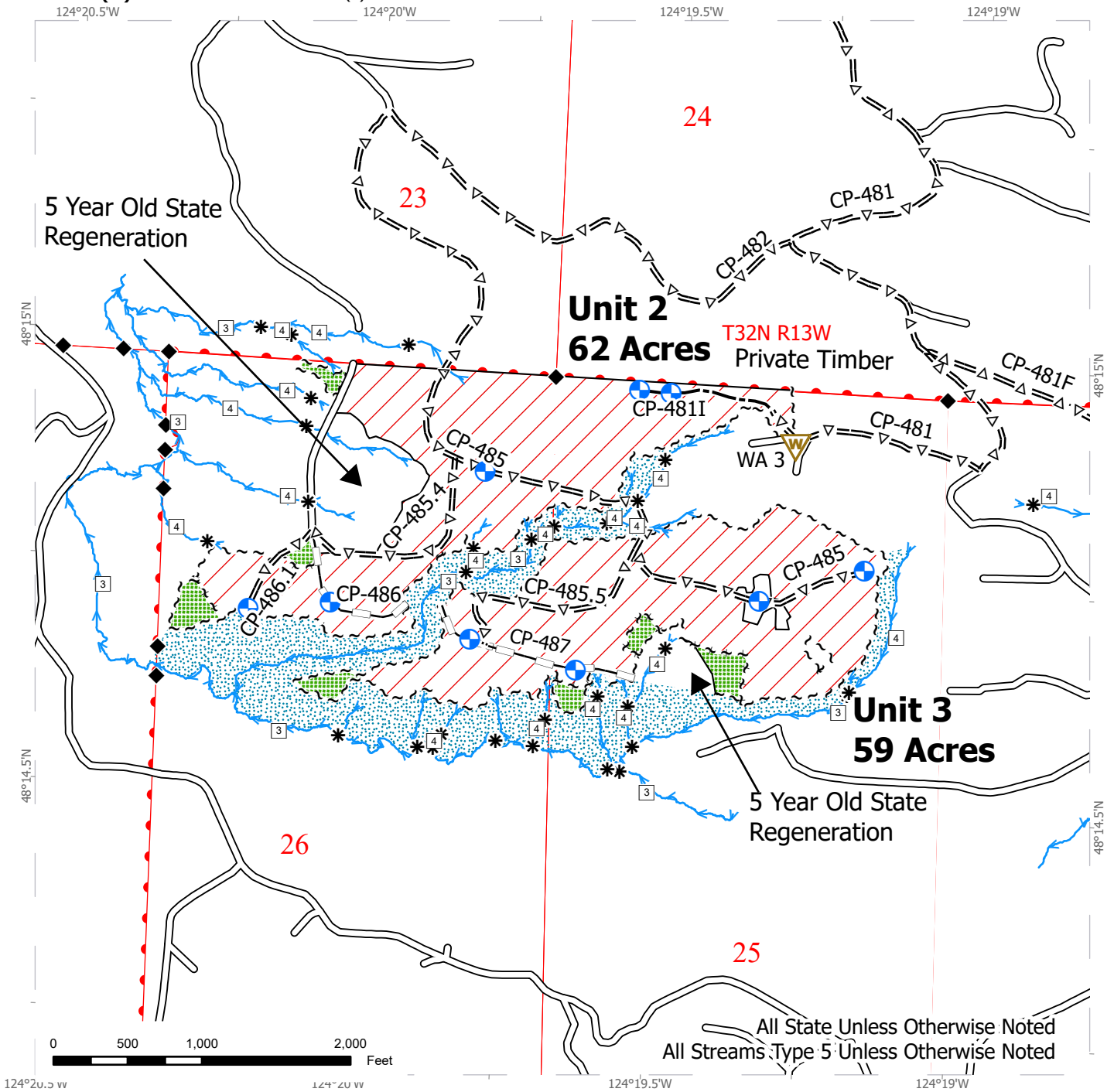
Variable Retention Harvest	Existing Roads	Streams
Leave Tree Area	Optional Pre-Haul Maintenance	Stream Type
Forested Wetland	Optional Construction	Stream Break
Wetland Mgt Zone	Bridge	Survey Monument
Riparian Mgt Zone	Stream Crossing	
Sale Boundary Tags	Proposed Landing	
Leave Tree Tags	Waste Area	
Timber Type Change		
DNR Managed Lands		



TIMBER SALE MAP

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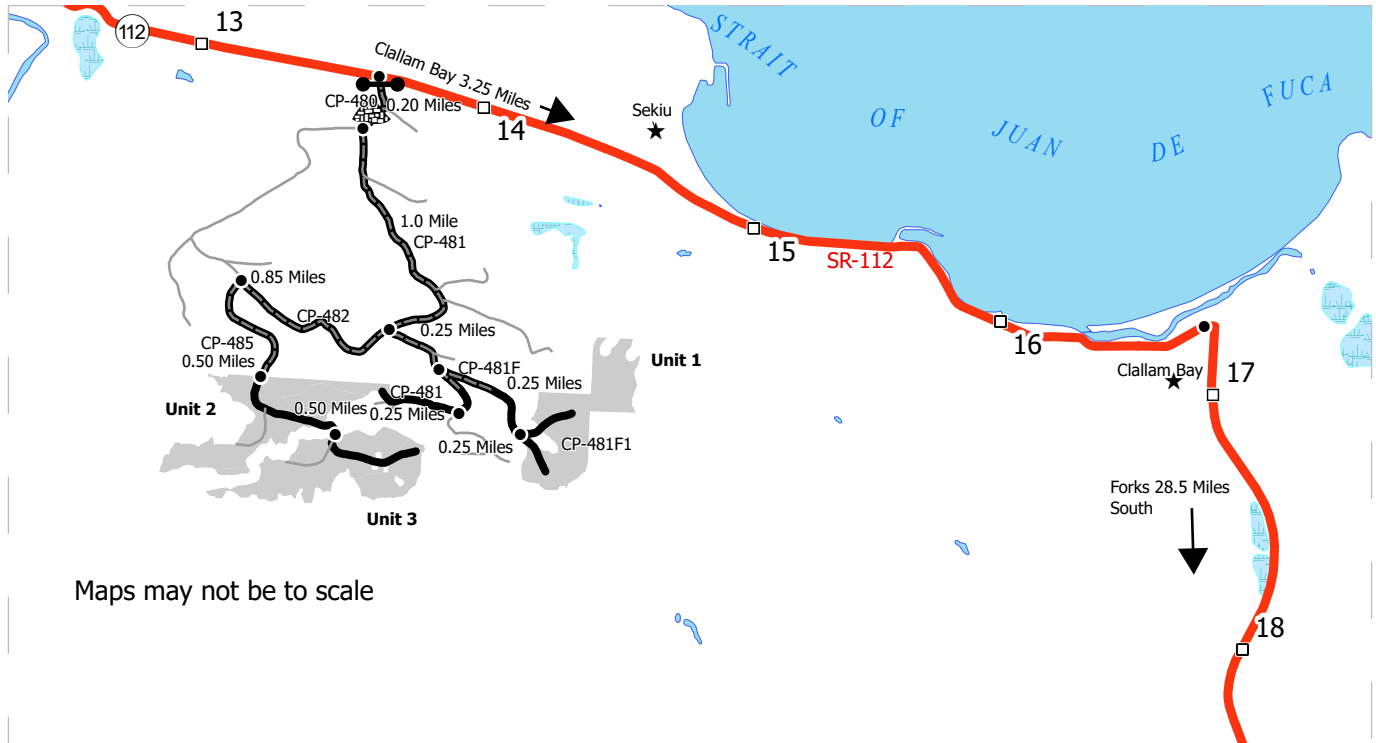
Variable Retention Harvest	Existing Roads	Streams
Leave Tree Area	Optional Pre-Haul Maintenance	Stream Type
Riparian Mgt Zone	Optional Construction	Stream Break
Sale Boundary Tags	Optional Reconstruction	Survey Monument
Leave Tree Tags	Proposed Landing	
Timber Type Change	Waste Area	
DNR Managed Lands		



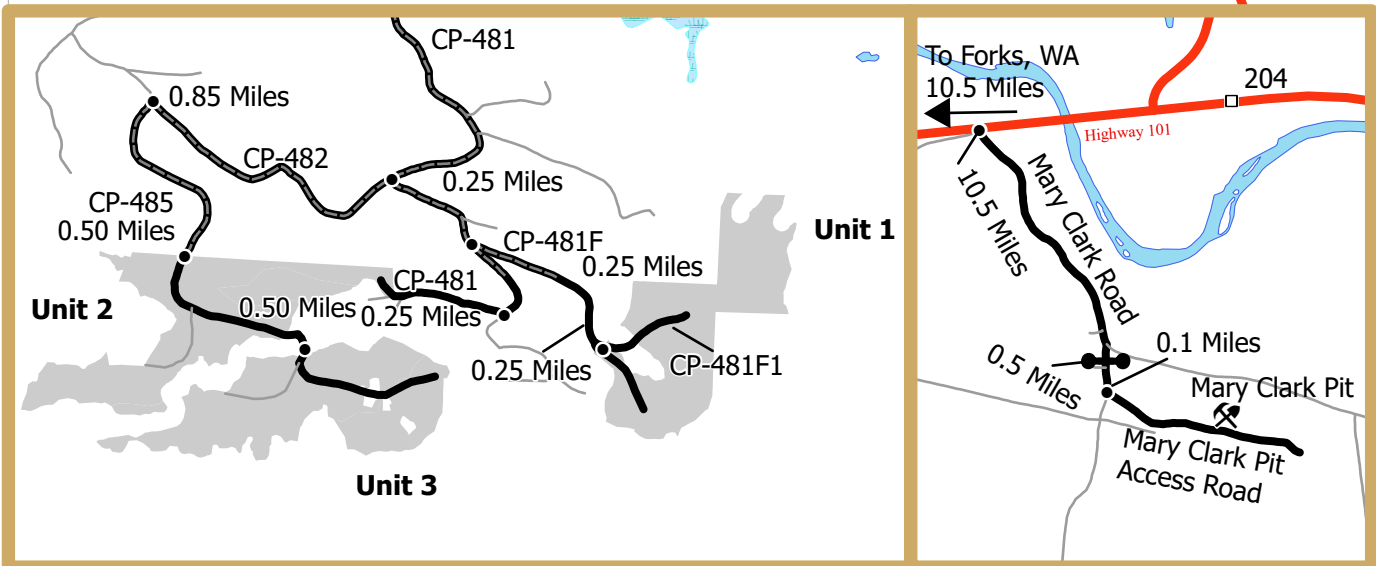
DRIVING MAP

SALE NAME: DRIFTWOOD DELIGHT
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REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 120'-800'



Maps may not be to scale



DRIVING DIRECTIONS:

From Clallam Bay drive west on the HWY 112 for 3.25 miles. Turn left onto the CP-480, go through gate (AA-1).

Unit 1: Continue on CP-480 for 0.2 miles and turn left onto the CP-481. Continue for 1 mile, then turn left onto CP 481F. Continue for 0.25 Miles until fork in road. Follow CP-481F to the left for 0.25 miles to a road blockage. Walk in the last .25 miles.

Unit 2: From the start of CP-481F, continue on CP-482 for 0.85 miles. Turn left on CP-485 and continue for 0.50 miles to the unit.

Unit 3: Continue on CP-485 for 0.50 miles from Unit 2 to Unit 3.

Mary Clark Pit: From Forks, WA. Travel north on HWY 101 for 10.5 miles. Turn right onto Mary Clark Road and continue for 0.5 mi. Turn right onto Mary Clark Pit Access Road and continue for 0.1 mi.

- Harvest Unit
- Highway
- Haul Route
- Other Route
- View Only Route
- Milepost Marker
- Distance Indicator
- Gate (OH-1)
- Stockpile



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

**BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS**

Export Restricted Lump Sum AGREEMENT NO. 30-0106463

SALE NAME: DRIFTWOOD DELIGHT

**THE STATE OF WASHINGTON DEPARTMENT OF NATURAL
RESOURCES, HEREINAFTER ACTING SOLELY, IN ITS PROPRIETARY
CAPACITY, STATE, AND PURCHASER, AGREE AS FOLLOWS:**

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

Bill of Sale and Contract for Forest Products: Contract between the Purchaser and the State, which sets forth the procedures and obligations of the Purchaser in exchange for the right to remove forest products from the sale area. The Bill of Sale and Contract for Forest Products may include a Road Plan for any road construction or reconstruction, where applicable.

Contract Administrator: Region Manager's designee responsible for assuring that the contractual obligations of the Purchaser are met.

Forest Product: Any material derived from the forest for commercial use.

Purchaser: The company or individual that has entered into a Bill of Sale and Contract for Forest Products with the State for the right to harvest and remove forest products from the timber sale area.

Road Construction: Includes building new and maintaining existing forest roads and associated work that may be optional or required as described in the Road Plan.

State: The Washington State Department of Natural Resources, landowner and seller of Forest Products from the timber sale area. The State is represented by the Region Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the Region Manager or the designated Contract Administrator.

Subcontractor: Individual or company employed by the Purchaser to perform a portion or all of the services required by The Bill of Sale and Contract for Forest Products. The Purchaser is responsible for independently negotiating, procuring and paying for all subcontracted services rendered.

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on February 26, 2025 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except trees marked with a band of blue paint, or bounded out by Leave Tree Area tags, bounded by Timber Sale Boundary tags, no downed redcedar, or timber that has been on the ground for five years or more, five years is defined by more than 1.5 inches of sap rot and all trees 60 inches or larger measured at diameter at breast height; Timber Type Change in Unit 1; bounded by Timber Sale Boundary Tags and Timber Type Change in Unit 2; bounded by Timber Sale Boundary tags in Unit 3.

In no instance shall downed redcedar be removed

All forest products described above located on approximately 178 acres on part(s) of Section 19 in Township 32 North, Range 12 West, Sections 25, and 26 all in Township 32 North, Range 13 West W.M. in Clallam County(s) as designated on the sale area and as shown on the attached timber sale map.

All forest products described above from the bole of the tree that meet or exceed 2 inches diameter inside bark on the small end are eligible for removal. Above ground components of a tree that remain as by-products after the manufacture of logs, including but not limited to tree tops, branches, limbs, needles, leaves, stumps, are not eligible for removal under the terms of this contract.

Forest products purchased under a contract that is designated as export restricted shall not be exported until processed. Forest products purchased under a contract that is designated as exportable may be exported prior to processing.

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the

timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
A	Specifications for Slash Piling
B	Green Tree Retention Plan

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2027.

G-040 Contract Term Adjustment - No Payment

Purchaser may request an adjustment in the contract term. A claim must be submitted in writing and received by the State within 30 days after the start of interruption or delay. The claim must also indicate the actual or anticipated length of interruption or delay. The State may grant an adjustment without charge only if the cause for contract term adjustment is beyond Purchaser's control. The cause must be one of the following and the adjustment may be granted only if operations or planned operations under this contract are actually interrupted or delayed:

- a. Road and bridge failures which deny access.
- b. Access road closures imposed by road owner.
- c. Excessive suspensions as provided in clause G-220.
- d. Regulatory actions not arising from Purchaser's failure to comply with this contract which will prevent timber harvest for a period less than 6 months.

G-051 Contract Term Extension - Payment

Extensions of this contract term may be granted only if, in the judgment of the State, Purchaser is acting in good faith and is endeavoring to remove the forest products conveyed. The term of this contract may be extended for a reasonable time by the State if all of the following conditions are satisfied:

- a. A written request for extension of the contract term must be received prior to the expiration date of the contract.
- b. Completion of all required roads and compliance with all contract and regulatory requirements.
- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the total contract price.

The payments shall not include the initial deposit which shall be held according to the provisions of RCW 79.15.100.

- d. Payment of an amount based on 12 percent interest per annum on the unpaid portion of the total contract price.

All payments, except the initial deposit, will be deducted from the total contract price to determine the unpaid portion of the contract.

- e. Payment of \$862.00 per acre per annum for the acres on which an operating release has not been issued.
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

Whenever the State determines that a survey for sensitive, threatened, or endangered species is prudent, or when Purchaser determines a survey is prudent and the State agrees, Purchaser shall perform such surveys at Purchaser's expense and to the standards required by the State. The survey information shall be supplied to the State.

G-060 Exclusion of Warranties

The PARTIES AGREE that the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE and ALL OTHER WARRANTIES EXPRESSED OR IMPLIED ARE EXCLUDED from this transaction and shall not apply to the goods sold. For example, THE FOLLOWING SPECIFIC MATTERS ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The

descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.

- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-061 Inadvertent Discovery of Cultural Resources

Purchaser acknowledges that cultural resources as defined in WAC 222-16-010 may exist within the timber sale area and that the existence and location of such resources may be unknown at the time this contract is executed. Purchaser has a duty to exercise due care in its operations and in the event any human skeletal remains are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify local law enforcement in the most expeditious manner possible then notifying the Contract Administrator. In the event cultural resources are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify the Contract Administrator. Any potential resources shall not be removed or disturbed. Purchaser shall resume operations as directed in writing by the Contract Administrator.

G-062 Habitat Conservation Plan

The State has entered into a Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (the Services) to address state trust land management issues relating to compliance with the Federal Endangered Species Act. The activities to be carried out under this contract are located within the State's HCP area and are subject to the terms and conditions of the HCP, and the Services' Incidental Take Permit Nos. TE812521-1 and 1168 (collectively referred to as ITP), or as amended hereafter by the Services. The ITP authorizes the incidental take of certain federally listed threatened and endangered species, as specified in the ITP conditions. All HCP materials, including the ITP, are available for review at the State's Regional Offices and the administrative headquarters in Olympia, Washington.

By signing this contract, Purchaser agrees to comply with the terms and conditions of the ITP, and the HCP, which shall become terms of this contract. The State agrees to authorize the lawful activities of the Purchaser carried out pursuant to this contract, PROVIDED the Purchaser remains in compliance with the terms and conditions of both the HCP and ITP. The requirements set forth in this contract are intended to comply with the terms and conditions of the HCP and ITP. Accordingly, non-compliance with the terms and conditions of the HCP and ITP will render the authorization provided in this paragraph void, be deemed a breach of the contract and may subject Purchaser to liability for violation of the Endangered Species Act.

Any modifications to the contract shall be proposed in writing by Purchaser, shall continue to meet the terms and conditions of the HCP and ITP, and shall require the prior written approval of the Region Manager before taking effect.

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.
- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.
- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP

and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

Purchaser is responsible for obtaining any permits not already obtained by the State that relate to Purchaser's operation. Forest Practice Application / Hydraulic Project Approval permits obtained by the State shall be transferred to Purchaser. Purchaser is responsible for all permits, amendments and renewals.

G-065 Regulatory Disclaimer

The State disclaims any responsibility for, or liability relating to, regulatory actions by any government agency, including actions pursuant to the Forest Practices Act, Ch. 76.09 RCW that may affect the operability of the timber sale.

G-066 Governmental Regulatory Actions

a. Risk

Purchaser shall be responsible for any increased operational costs arising from any applicable foreign or domestic governmental regulation or order that does not cause contract performance to become commercially impracticable or that does not substantially frustrate the purpose of the contract. If impracticability or frustration results from Purchaser's failure to comply with this contract, Purchaser shall remain responsible for payment of the total contract price notwithstanding the impracticability or frustration.

b. Sale Area

When portions of the sale area become subject to a foreign or domestic governmental regulation or order that will likely prevent timber harvest for a period that will exceed the expiration date of this contract, and Purchaser has complied with this contract, the following shall apply:

i. RCW 79.15.140 shall govern all adjustments to the contract area.

c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall cause the timber sale area subject to governmental regulation or order to be measured. The State shall calculate the percentage of the total sale area subject to the governmental regulation or order. The State shall reduce the total contract price by that calculated percentage. However, variations in species, value, costs, or other items pertaining to the affected sale area will be analyzed and included in the adjustment if deemed appropriate by the State. The State will further reduce the total contract price by the reasonable cost of

unamortized roads Purchaser constructed but was unable to fully use for removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

G-070 Limitation on Damage

In the event of a breach of any provision of this contract by the State, the exclusive remedy available to Purchaser will be limited to a return of the initial deposit, unapplied payments, and credit for unamortized improvements made by Purchaser. The State shall not be liable for any damages, whether direct, incidental or consequential.

G-080 Scope of State Advice

No advice by any agent, employee, or representative of the State regarding the method or manner of performing shall constitute a representation or warranty that said method, manner or result thereof will conform to the contract or be suitable for Purchaser's purposes under the contract. Purchaser's reliance on any State advice regarding the method or manner of performance shall not relieve Purchaser of any risk or obligation under the contract. Purchaser retains the final responsibility for its operations under this contract and State shall not be liable for any injuries resulting from Purchaser's reliance on any State advice regarding the method or manner of performance.

G-091 Sale Area Adjustment

The Parties may agree to adjustments in the sale area boundary. The cumulative changes to the sale area during the term of the contract shall not exceed more than four percent of the original sale area. If the sale area is increased, the added forest products become a part of this contract. The State shall determine the volume added and shall calculate the increase to the total contract price using the rates set forth in clause G-101, G-102, or G-103. If the sale area is reduced, the State shall determine the volume to be reduced. The State shall calculate the reduction to the total contract price using the rates set forth in clause G-101, G-102, or G-103.

G-101 Forest Products Not Designated

Any forest products not designated for removal, which must be removed in the course of operations authorized by the State, shall be approved and designated by the Contract Administrator. Added forest products become a part of this contract and the Scribner log scale volume, as defined by the Northwest Log Rules Advisory Group, shall be determined by the Contract Administrator. Added forest products shall be paid for at the following contract payment rates per Mbf Scribner log scale.

The pricing schedule has not been set for the sale.

G-111 Title and Risk of Loss

Title to the forest products under this contract passes to the Purchaser after they are removed from the sale area, if adequate advance payment or payment security has been provided to the State under this contract. Purchaser bears all risk of loss of, or damage to, and has an insurable interest in, the forest products described in this contract from

the time the sale is confirmed under RCW 79.15.120. Breach of this contract shall have no effect on this provision.

G-116 Sustainable Forestry Initiative® (SFI®) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative 2022 Forest Management Standard under certificate number: BVC-SFIFM-018227.

Purchaser shall have at least one person regularly on-site during active operations that have completed training according to the requirements outlined within the SFI Standard. Purchaser shall designate in writing the name(s) of the individual(s) who will be on-site and provide proof of their successful completion of an approved training program prior to active operations.

G-120 Responsibility for Work

All work, equipment, and materials necessary to perform this contract shall be the responsibility of Purchaser. Any damage to improvements, except as provided in clause G-121 or unless the State issues an operating release pursuant to clause G-280, shall be repaired promptly to the satisfaction of the State and at Purchaser's expense.

G-121 Exceptions

Exceptions to Purchaser's responsibility in clause G-120 shall be limited exclusively to the following. These exceptions shall not apply where road damage occurs due to Purchaser's failure to take reasonable precautions or to exercise sound forest engineering and construction practices.

The State will bear the cost to repair damages caused by a third party. In all other cases, the Purchaser shall bear responsibility for the costs as described below.

Road is defined as the road bed, including but not limited to its component parts, such as cut and fill slopes, subgrade, ditches, culverts, bridges, and cattle guards.

For the purposes of this clause, damage will be identified by the State and is defined as:

1. Failure of (a) required improvements or roads designated in clause C-050, or (b) required or optional construction completed to the point that authorization to haul has been issued;
2. Caused by a single event from forces beyond the control of Purchaser, its employees, agents, or invitees, including independent contractors; and
3. Includes, but is not limited to natural disasters such as earthquakes, volcanic eruptions, landslides, and floods.

The repair work identified by the State shall be promptly completed by Purchaser at an agreed price. The State may elect to accomplish repairs by means of State-provided resources.

For each event, Purchaser shall be solely responsible for the initial \$5,000 in repairs. For repairs in excess of \$5,000, the parties shall share equally the portion of costs between \$5,000 and \$15,000. The State shall be solely responsible for the portion of the cost of repairs that exceed \$15,000.

Nothing contained in clauses G-120 and G-121 shall be construed as relieving Purchaser of responsibility for, or damage resulting from, Purchaser's operations or negligence, nor shall Purchaser be relieved from full responsibility for making good any defective work or materials. Authorization to haul does not warrant that Purchaser built roads are free from material defect and the State may require additional work, at Purchasers expense regardless of cost, to remedy deficiencies at any time.

G-140 Indemnity

To the fullest extent permitted by law, Purchaser shall indemnify, defend and hold harmless State, agencies of State and all officials, agents and employees of State, from and against all claims arising out of or resulting from the performance of the contract. "Claim" as used in this contract means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable for bodily injury, sickness, disease or death, or injury to or destruction of tangible property including loss of use resulting therefrom. Purchasers' obligations to indemnify, defend, and hold harmless includes any claim by Purchasers' agents, employees, representatives, or any subcontractor or its employees. Purchaser expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Purchasers' or any subcontractors' performance or failure to perform the contract. Purchasers' obligation to indemnify, defend, and hold harmless State shall not be eliminated or reduced by any actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Purchaser waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

G-150 Insurance

Purchaser shall, at its cost and expense, buy and maintain insurance of the types and amounts listed below. Failure to buy and maintain the required insurance may result in a breach and/or termination of the contract at State's option. State may suspend Purchaser operations until required insurance has been secured.

All insurance and surety bonds should be issued by companies admitted to do business within the State of Washington and have a rating of A-, Class VII or better in the most recently published edition of Best's Reports. If an insurer is not admitted, all insurance policies and procedures for issuing the insurance policies must comply with Chapter 48.15 RCW and 284-15 WAC.

The State of Washington, Department of Natural Resources region office of sale origin shall be provided written notice before cancellation or non-renewal of any insurance referred to therein, in accord with the following specifications:

1. Insurers subject to Chapter 48.18 RCW (admitted and regulated by the Insurance Commissioner): The insurer shall give the State 45 days advance notice of cancellation or non-renewal. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.
2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

Before starting work, Purchaser shall furnish State of Washington, Department of Natural Resources with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified in the contract. Insurance coverage shall be obtained by the Purchaser prior to operations commencing and continually maintained in full force until all contract obligations have been satisfied or an operating release has been signed by the State.

Purchaser shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Purchaser's liability or responsibility.

The State of Washington, Department of Natural Resources, its elected and appointed officials, agents and employees shall be named as an additional insured via endorsement on all general liability, excess, umbrella, and property insurance policies.

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Purchaser waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

By requiring insurance herein, State does not represent that coverage and limits will be adequate to protect Purchaser and such coverage and limits shall not limit Purchaser's liability under the indemnities and reimbursements granted to State in this contract.

The limits of insurance, which may be increased as deemed necessary by State of Washington, Department of Natural Resources, shall not be less than as follows:

Commercial General Liability (CGL) Insurance. Purchaser shall maintain general liability (CGL) insurance, and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000.00 per each occurrence. If such CGL insurance contains aggregate limits, the General Aggregate limit shall be at least twice the "each occurrence" limit. CGL insurance shall have products-completed operations aggregate limit of at least two times the "each occurrence" limit. CGL coverage shall include a Logging and Lumbering Endorsement (i.e. Logger's Broad-Form) to cover the events

that include, but are not limited to, fire suppression expenses, accidental timber trespasses, and wildfire property damage with limits of not less than \$2,000,000.00 each occurrence.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 (or a substitute form providing equivalent coverage). All insurance shall cover liability arising out of premises, operations, independent contractors, products completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another party assumed in a business contract), and contain separation of insured (cross liability) condition.

Employer's Liability "Stop Gap" Insurance. Purchaser shall buy employers liability insurance, and, if necessary, commercial umbrella liability insurance with limits not less than \$1,000,000.00 each accident for bodily injury by accident or \$1,000,000.00 each employee for bodily injury by disease.

Workers' Compensation Coverage. Purchaser shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Purchaser and employees of any subcontractor or sub-subcontractor. Coverage shall include bodily injury (including death) by accident or disease, which exists out of or in connection with the performance of this contract. Except as prohibited by law, Purchaser waives all rights of subrogation against State for recovery of damages to the extent they are covered by workers' compensation, employer's liability, commercial general liability, or commercial umbrella liability insurance.

If Purchaser, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Purchaser shall indemnify State. Indemnity shall include all fines, payment of benefits to Purchaser or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

Business Auto Policy (BAP). Purchaser shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit not less than \$1,000,000.00 per accident. Such insurance shall cover liability arising out of "Any Auto". Business auto coverage shall be written on ISO form CA 00 01, or substitute liability form providing equivalent coverage. If necessary the policy shall be endorsed to provide contractual liability coverage and cover a "covered pollution cost or expense" as provided in the 1990 or later editions of CA 00 01. Purchaser waives all rights against State for the recovery of damages to the extent they are covered by business auto liability or commercial umbrella liability insurance.

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Forks, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive,

modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the forest products conveyed beyond the terms of this contract.

Purchaser is required to have a person on site during all operations who is authorized to receive instructions and notices from the State. Purchaser shall inform the State in writing who is authorized to receive instructions and notices from the State, and any limits to this person's authority.

G-170 Assignment and Delegation

No rights or interest in this contract shall be assigned by Purchaser without prior written permission of the State. Any attempted assignment shall be void and ineffective for all purposes unless made in conformity with this paragraph. Purchaser may perform any duty through a delegate, but Purchaser is not thereby relieved of any duty to perform or any liability. Any assignee or delegate shall be bound by the terms of the contract in the same manner as Purchaser.

G-180 Modifications

Waivers, modifications, or amendments of the terms of this contract must be in writing signed by Purchaser and the State.

G-190 Contract Complete

This contract is the final expression of the Parties' agreement. There are no understandings, agreements, or representations, expressed or implied, which are not specified in this contract.

G-200 Notice

Notices required to be given under the following clauses shall be in writing and shall be delivered to Purchaser's authorized agent or sent by certified mail to Purchaser's address of record:

G-210 Violation of Contract

G-220 State Suspends Operations

All other notices required to be given under this contract shall be in writing and delivered to the authorized agent or mailed to the Party's post office address. Purchaser agrees to notify the State of any change of address.

G-210 Violation of Contract

- a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend those operations in violation. If the violation is capable of being remedied, Purchaser has 30 days after receipt of a suspension notice to remedy the violation. If the violation cannot be remedied (such as a violation of WAC 240-15-015) or Purchaser fails to remedy the violation within 30 days after receipt of a suspension notice, the

State may terminate the rights of Purchaser under this contract and collect damages.

- b. If the contract expires pursuant to clause G-030 or G-031 without Purchaser having performed all its duties under this contract, Purchaser's right to operate is terminated and Purchaser shall not have the right to remedy the breach. This provision shall not relieve Purchaser of any payment obligations.
- c. The State has the right to remedy the breach in the absence of any indicated attempt by Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within 30 days of receipt of billing.
- d. If Purchaser's violation is a result of a failure to make a payment when due, in addition to a. and b. above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due.

G-220 State Suspends Operations

The Contract Administrator may suspend any operation of Purchaser under this contract when the State is suffering, or there is a reasonable expectation the State will suffer environmental, monetary, or other damage if the operation is allowed to continue.

Purchaser shall be in breach of this contract if the operation continues after the suspension notice or if the operation resumes without prior approval and notice from the Contract Administrator.

Purchaser may request a modification of a suspension within 30 days of the start of suspension through the dispute resolution process in clause G-240. If this process results in a finding that the suspension exceeded the time reasonably necessary to stop or prevent damage to the State, Purchaser is entitled to request a contract term adjustment under clause G-040.

If it reasonably appears that the damage that the State is suffering, or can reasonably be expected to suffer if the operation is allowed to continue, will prevent harvest for a period that will exceed 6 months, and Purchaser has complied with this contract, the provisions of clause G-066 shall govern just as if the harvest was prevented by an applicable foreign or domestic governmental regulation or order.

G-230 Unauthorized Activity

Any cutting, removal, or damage of forest products by Purchaser, its employees, agents, or invitees, including independent contractors, in a manner inconsistent with the terms of this contract or State law, is unauthorized. Such activity may subject Purchaser to liability for triple the value of said forest products under RCW 79.02.320 or RCW 79.02.300 and may result in prosecution under RCW 79.02.330 or other applicable statutes.

G-240 Dispute Resolution

The following procedures apply in the event of a dispute regarding interpretation or administration of this contract and the parties agree that these procedures must be followed before a lawsuit can be initiated.

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within ten business days.
- c. Within ten business days of receipt of the Region Manager's decision, Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.
- d. Unless otherwise agreed, a conference will be held by the Deputy Supervisor - Uplands within 30 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor - Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

G-250 Compliance with All Laws

Purchaser shall comply with all applicable statutes, regulations and laws, including, but not limited to; chapter 27.53 RCW, chapter 68.50 RCW, WAC 240-15 and WAC 296-54. Failure to comply may result in forfeiture of this contract.

G-260 Venue

This contract shall be governed by the laws of the State of Washington. In the event of a lawsuit involving this contract, venue shall be proper only in Thurston County Superior Court.

G-270 Equipment Left on State Land

All equipment owned or in the possession of Purchaser, its employees, agents, or invitees, including independent contractors, shall be removed from the sale area and other State land by the termination date of this contract. Equipment remaining unclaimed on State land 60 days after the expiration of the contract period is subject to disposition as provided by law. Purchaser shall pay to the State all costs of moving, storing, and disposing of such equipment. The State shall not be responsible for any damages to or loss of the equipment or damage caused by the moving, storing or disposal of the equipment.

G-280 Operating Release

An operating release is a written document, signed by the State and Purchaser, indicating that Purchaser has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Purchaser and State may agree to an operating release for this sale, or portion of this sale, prior to the contract

expiration, when all contract requirements pertaining to the release area have been satisfactorily completed. Upon issuance of a release, Purchaser's right to cut and remove forest products on the released area will terminate.

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; CP-480, CP-481, CP-481F, CP-481F1, CP-481I, CP-482, CP-485, CP-485.4, CP-485.5, CP-486, CP-486.1, CP-487, 11+15 Spur, Mary Clark Pit Access Road, Hoh Mainline Road, and Camp Saw Mill Road. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before beginning any operations. To the extent that the plan of operations is inconsistent with the contract, the terms of the contract shall prevail. State's acceptance and approval of Purchaser's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, re-establish them through a licensed land surveyor in accordance with U.S. General Land Office standards. Corners and/or witness objects that must be disturbed or destroyed in the process of road construction or logging shall be adequately referenced and/or replaced in accordance with RCW 58.24.040(8). Such references must be approved by the Contract Administrator prior to removal of said corners and/or witness objects.

G-360 Road Use Reservation

The State shall have the right to use, without charge, all existing roads and any road constructed or reconstructed on State lands by Purchaser under this contract. The State may extend such rights to others. If the State grants such rights to others, the State shall require performance or payment, as directed by the State, for their proportionate share of maintenance based on their use.

G-370 Blocking Roads

Purchaser shall not block the CP-480 (all), CP-481 (0+00 – 68+20), CP-481F (0+00 – 10+30), CP-482 (all), CP-485(0+00 – 23+40), Hoh Mainline roads, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

Purchaser agrees to comply with the terms and conditions of the attached:

55-107856: Olympic Peninsula Timberlands, LLC

Nuveen Natural Capital, LLC

55-000467: Bert & Norma Cole

G-430 Open Fires

Purchaser shall not set, or allow to be set by Purchaser's employees, agents, invitees and independent contractors, any open fire at any time of the year without first obtaining permission, in writing, from the Contract Administrator.

G-450 Encumbrances

This contract and Purchaser's activities are subject to the following:

Encumbrances

Easement, including the terms and provisions thereof,

For: Utility

In Favor of: State of WA – Department of Corrections

Disclosed by Application No.: 50-046134

Granted: 7/10/1984

Expires: Indefinite

Easement, including the terms and provisions thereof,

For: Fiber Optics Cable and Road

In Favor of: CenturyTel of Washington, Inc., dba CenturyLink

Disclosed by Application No.: 50-089068

Granted: 8/5/2013

Expires: Indefinite

No Pending Applications of Record

Region Encumbrances

Lease, including the terms and provisions thereof,

For: Minor Forest Products

In Favor of: DNR – Olympic Region

Disclosed by Application No.: 35-FPOC21

Granted: 3/18/1993

Expires: Indefinite

Special Notations

Partially located within the Point No Point Treaty area. Intergovernmental agreements for vehicle access with Lower Elwha Tribal Community, Skokomish Indian Tribe, Jamestown S'Klallam Tribe, and Port Gamble S'Klallam Tribe.

Section P: Payments and Securities

P-011 Initial Deposit

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in Clause P-020, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$122,174.00. The total contract price consists of a \$0.00 contract bid price plus \$122,174.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

THE PURCHASE PRICE SHALL NOT BE AFFECTED BY ANY FACTORS, INCLUDING: the amount of forest products actually present within the contract area, the actual acreage covered by the contract area, the amount or volume of forest products actually cut or removed by purchaser, whether it becomes physically impossible or uneconomic to remove the forest products, and whether the subject forest products have been lost or damaged by fire or any other cause. The only situations Purchaser may not be liable for the full purchase price are governed by clause G-066, concerning governmental regulatory actions taken during the term of the contract.

P-045 Guarantee of Payment

Purchaser will pay for forest products prior to cutting or will guarantee payment by posting an approved payment security. The amount of cash or payment security shall be determined by the State and shall equal or exceed the value of the cutting proposed by Purchaser.

P-050 Billing Procedure

The State will compute and forward to Purchaser statements of charges provided for in the contract. Purchaser shall deliver payment to the State on or before the date shown on the billing statement.

P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$100,000.00. The Security provided shall

guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

The State may reduce the performance security after an operating release has been issued if the State determines that adequate security exists for any remaining obligations of Purchaser.

Section H: Harvesting Operations

H-013 Reserve Tree Damage Definition

Reserve trees are trees required and designated for retention within the sale boundary. Purchaser shall protect reserve trees from being cut, damaged, or removed during operations.

Reserve tree damage exists when one or more of the following criteria occur as a result of Purchaser's operation, as determined by the Contract Administrator:

- a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.
- b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

If the Contract Administrator determines that a reserve tree has been cut or damaged, the Purchaser shall provide a replacement reserve tree of like condition, size, and species within the sale unit containing the damaged leave tree, as approved by the Contract Administrator. Purchaser may be required to pay liquidated damages for Excessive Reserve Tree Damage as detailed in clause D-041.

Removal of designated reserve trees from the sale area is unauthorized, and may invoke the use of the G-230 'Unauthorized Activity' clause. Purchaser is required to leave all cut or damaged reserve trees on site.

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 12 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for utilizing rubber tired skidders in the sale area. The plan shall address the the locations and timing of desired area, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval by the Contract Administrator.

H-051 Branding and Painting

Purchaser shall provide a State of Washington registered log brand, acceptable to the State, unless the State agrees to furnish the brand. All purchased timber shall be branded in a manner that meets the requirements of WAC 240-15-030(2)(a)(i). All timber purchased under a contract designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

For pulp loads purchased under a contract designated as export restricted, Purchaser shall brand at least 3 logs with legible brands at one end. Also, 10 logs shall be painted at one end with durable red paint.

H-080 Snags Not to be Felled

Snags not required to be felled for safety reasons may be left standing. Snags felled for safety reasons shall not be removed and must remain where felled.

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using ground based equipment and cable. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities. Purchaser shall fully suspend one end of logs over streams during logging operations.

H-130 Hauling Schedule

The hauling of forest products will not be permitted on CP-480, CP-481, CP-482, CP-481F, CP-485 from October 15 to April 15 unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

1. Purchaser shall immediately repair all gate damage resulting from operations to an equal or better condition than existed at the time of the sale.

2. While felling timber, 2 warning signs at purchasers' expense must be posted on the CP-485, CP-481 roads.

3. The Purchaser shall notify all employees and contractors working on this sale that any danger tree, marked or unmarked, may be felled. Any felled marked danger tree shall be replaced with a suitable tree of similar size and species as approved by the Contract Administrator.

Permission to do otherwise must be granted in writing by the Contract Administrator.

H-190 Completion of Settings

Operations begun on any setting of the sale area shall be completed before any operation begins on subsequent settings unless authorized in writing by the Contract Administrator.

H-220 Protection of Residual or Adjacent Trees

Unless otherwise specified by this contract, the Contract Administrator shall identify damaged adjacent or leave trees that shall be paid for according to clause G-230.

H-230 Tops and Limbs Outside the Sale Boundary

Tops and limbs outside the sale boundary as a result of Purchaser's operation shall be removed concurrently with the yarding operation unless otherwise directed by the Contract Administrator.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 8/12/2024 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on all roads listed in the road plan, authorized in Clause G-310, and not listed in Clause C-060. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on Mary Clark Pit Access Road, Hoh Mainline, and Sawmill Access Road. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-080 Landing Locations Approved Prior to Construction

Landings shall be marked by Purchaser and approved by the Contract Administrator prior to construction.

C-140 Water Bars

Purchaser shall, as directed by the Contract Administrator, construct water bars across haul roads, skid trails and fire trails as necessary to control soil erosion and water pollution.

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

An Emergency Response Plan (ERP) shall be provided to the Contract Administrator containing but not limited to, valid contact numbers and procedures for medical emergencies, fire, hazardous spills, forest practice violations and any unauthorized or unlawful activity on or in the vicinity of the sale area. The Contract Administrator and the State shall be promptly notified whenever an incident occurs requiring an emergency response.

The ERP must be presented for inspection at the prework meeting and kept readily available to all personnel, including subcontractors, on site during active operations.

S-010 Fire Hazardous Conditions

Purchaser acknowledges that operations under this Contract may increase the risk of fire. Purchaser shall conduct all operations under this agreement following the requirements of WAC 332-24-005 and WAC 332-24-405 and further agrees to use the highest degree of care to prevent uncontrolled fires from starting.

In the event of an uncontrolled fire, Purchaser agrees to provide equipment and personnel working at the site to safely and effectively engage in first response fire suppression activity.

Purchaser's failure to effectively engage in fire-safe operations is considered a breach and may result in suspension of operations.

S-030 Landing Debris Clean Up

Landing debris shall be disposed of in a manner approved in writing by the Contract Administrator.

S-035 Logging Debris Clean Up

Slash and debris created from harvest activities shall be treated in a manner approved in writing by the Contract Administrator.

S-050 Cessation of Operations for Low Humidity

When the humidity is 30 percent or lower on the sale area, all operations must cease unless authority to continue is granted by the State in writing.

S-060 Pump Truck or Pump Trailer

Purchaser shall provide a fully functional pump truck or pump trailer equipped to meet the specifications of WAC 332-24-005 and WAC 332-24-405 during the "closed season" or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

S-100 Stream Cleanout

Slash or debris which enters any typed water as a result of operations under this contract and which is identified by the Contract Administrator shall be removed and deposited in a stable position. Removal of slash or debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation.

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

Purchaser is responsible for understanding and complying with all applicable local, state, and federal hazardous material/waste laws and regulations for operations conducted under this contract. Such regulations pertain to, but may not be limited to, hazardous material storage, handling and transport, personnel protection, release notification and emergency response, cleanup, and waste disposal.

Purchaser shall be responsible for restoring the site in the event of a spill or other releases of hazardous material/waste during operations conducted under this contract.

b. Hazardous Materials Spill Prevention

All operations shall be conducted in a manner that avoids the release of hazardous materials, including petroleum products, into the environment (water, air or land).

c. Hazardous Materials Spill Containment, Control and Cleanup

If safe to do so, Purchaser shall take immediate action to contain and control all hazardous material spills. Purchaser shall ensure that enough quick response spill kits capable of absorbing 10 gallons of oil, coolant, solvent or contaminated water are available on site to quickly address potential spills from any piece of equipment at all times throughout active operations. If large quantities of bulk fuel/other hazardous materials are stored on site, Purchaser must be able to effectively control a container leak and contain & recover a hazmat spill equal to the largest single on site storage container volume. (HAZWOPER reg. 29CFR 1910.120 (j) (1) (vii)).

d. Hazardous Material Release Reporting

Releases of oil or hazardous materials to the environment must be reported according to the State Department of Ecology (ECY). It is the responsibility of the Purchaser to have all emergency contact information readily available and a means of remote communication for purposes of quick notification. In the event of a spill covered in part a., the Purchaser is responsible for immediately notifying all the following:

- Department of Emergency Management at 1-800-258-5990
- National Response Center at 1-800-424-8802
- Appropriate Department of Ecology (ECY) at 1-800-645-7911
- DNR Contract Administrator

S-131 Refuse Disposal

As required by RCW 70.93, All Purchaser generated refuse shall be removed from state lands for proper disposal prior to termination of this contract. No refuse shall be burned, buried or abandoned on state forest lands. All refuse shall be transported in a manner such that it is in compliance with RCW 70.93 and all loads or loose materials shall be covered/secured such that these waste materials are properly contained during transport.

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

The following clauses provide for payments by Purchaser to the State for breaches of the terms of this contract other than failure to perform. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State, which will be caused by Purchaser's breach. These liquidated damages provisions are agreed to by the State and Purchaser with the understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Purchaser by allowing the Purchaser to better assess its responsibilities under the contract.

Clause P-020 governs Purchaser's liability in the event Purchaser fails to perform any of the contract requirements other than the below liquidated damage clauses without written approval by the State. Purchaser's failure to pay for all or part of the forest products sold in this contract prior to expiration of the contract term results in substantial injury to the State. Therefore, Purchaser agrees to pay the State the full lump sum contract price in P-020 in the event of failure to perform.

D-041 Reserve Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-013, Reserve Tree Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve tree is not possible, the damaged trees result in substantial injury to the State. The value of the damaged reserve trees at the time of the breach is not readily ascertainable. Therefore, the Purchaser agrees to pay

the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged reserve trees that are not replaced in Units 1-3.

SIGNATURES

This agreement may be executed in any number of counterparts (including by electronic mail in portable document format (.pdf), or by facsimile) each of which shall be deemed an original but all of which, when taken together, shall constitute one and the same Agreement binding on all parties.

IN WITNESS WHEREOF, the Parties hereto have entered into this contract.

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

William Wells
Olympic Region Manager

Print Name

Date: _____

Date: _____

Address:

CORPORATE ACKNOWLEDGEMENT
(Required for both LLC and Inc. Entities)

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 20____, before me personally appeared _____

_____ to me known to be the _____ of the corporation that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned, and on oath stated that (he/she was) (they were) authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public in and for the State of

My appointment expires _____

Schedule A
Specifications for Slash Piling

The areas shall be piled by creating circular piles of slash and brush conforming to the following specifications:

1. Piles shall be a minimum of 12 feet tall by 8 feet wide to a maximum of 30 feet tall and 16 feet wide. Piles shall be cone shaped and stable.
2. Piles shall be free of topsoil, large rotten logs and large stumps. No material larger than 8 inches in diameter shall be piled. Any burnable material shall be well scattered.
3. Piles shall not be placed on large stumps or logs.
4. Piles shall be stacked a minimum of 50 feet from all unit boundaries, Riparian Management Zones, leave tree areas and any standing timber; a minimum of 100 feet from any public roads and highways; and a minimum of 200 feet from any structures.
5. Piling shall be completed using an approved hydraulic shovel and grapples.
6. Slash and displaced soil shall be removed from swales and natural drainage channels concurrent with yarding.
7. Slash shall be placed in skid roads or ahead of machinery. Slash which accumulates on landings and/or roads shall be lopped and scattered within the harvest area or as designated by the Contract Administrator.
8. Slash generated during cable yarding shall be stacked in dirt free piles and shall not block roads or interfere with functioning of drainage structures, ditches, or stream channels.

Schedule B
Green Tree Retention Plan

Leave the following as directed by the Contract Administrator:

1. All trees marked with a blue band of paint and all leave tree area clumps shall remain standing.

The perimeter of the leave tree clumps are designated by Leave Tree Area tags. The tags face outward from the leave tree clumps.

Unit #	# of Individually Marked Trees	# of Clumps	# of Trees Clumped	Total # of Leave Trees
1	30	3	426	456
2	185	3	311	496
3	32	4	440	472



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

Construction: **linear feet**
Road to be constructed (optional and required) but not abandoned

Reconstruction: **linear feet**
Road to be reconstructed (optional and required) but not abandoned

Abandonment: **linear feet**
Abandonment of existing roads not reconstructed under the contract

Decommission: **linear feet**
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: **linear feet**
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: **linear feet**
Roads to be constructed (optional and required) and then abandoned

Temporary Reconstruction: **linear feet**
Roads to be reconstructed (optional and required) and then abandoned

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829.
(Revised 9/18)

PRE-CRUISE NARRATIVE

Sale Name: Driftwood Delight	Region: Olympic
Agreement #: 30-106463	District: Ozette
Contact Forester: Chance LeRoy Phone / Location: (360)-640-4343	County(s): Choose a county, Clallam
Alternate Contact: Erik Camacho-Roldan Phone / Location: (360)-640-9165	Other information: Click here to enter text.

Type of Sale: Lump Sum	
Harvest System: Uphill Cable Click here to enter text.	14%
Harvest System: Ground based Click here to enter text.	86%
Enter % of sale acres	
Harvest System: Select harvest system Click here to enter text.	Click here to enter percent sale acres.

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	T32 R12W Sec 19 T32 R13W Sec 25	1	69	8	3	1	0	57	GPS (Garmin)
2	T32 R13W Sec 26 T32 R13W Sec 25	1	84	18	3	1	0	62	GPS (Garmin)
3	T32 R13W Sec 26 T32 R13W Sec 25	1	106	39	4	4	0	59	GPS (Garmin)
TOTAL ACRES			259	65	10	6	0	178	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, timber type change and roads. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers, and blue paint.		Clumped Leave Trees: 426 Individual Leave Trees: 30 Total Trees: 456
2	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, timber type change and roads. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers, and blue paint.		Clumped Leave Trees: 311 Individual Leave Trees: 185 Total Trees: 496
3	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, timber type change and roads. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers, and blue paint.		Clumped Leave Trees: 440 Individual Leave Trees: 32 Total Trees: 472

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	Douglas-Fir, Western Hemlock 1,200 MBF	Accessed from the CP-481. Gate (OH-1)	See Cruise Map.
2	Douglas-Fir, Western Hemlock 1,300 MBF	Accessed from the CP-481. Gate (OH-1)	See Cruise Map.
3	Douglas-Fir, Western Hemlock 1,240 MBF	Accessed from the CP-481. Gate (OH-1)	See Cruise Map.
TOTAL MBF	3,740		

REMARKS:

<p>To reach Unit 1, drive CP-481F until road blockage. Then walk abandoned road another 1,000 feet to enter Unit.</p> <p>To reach Units 2 and 3, drive CP 485 .5 mi from junction to Unit 2, then another .5mi to reach unit 3.</p>

Units 2 and part of 3 were commercially thinned in 2015. The other half of Unit 3 was commercially thinned in 2019.

Prepared By: Chance LeRoy
Date: 07/029/2024

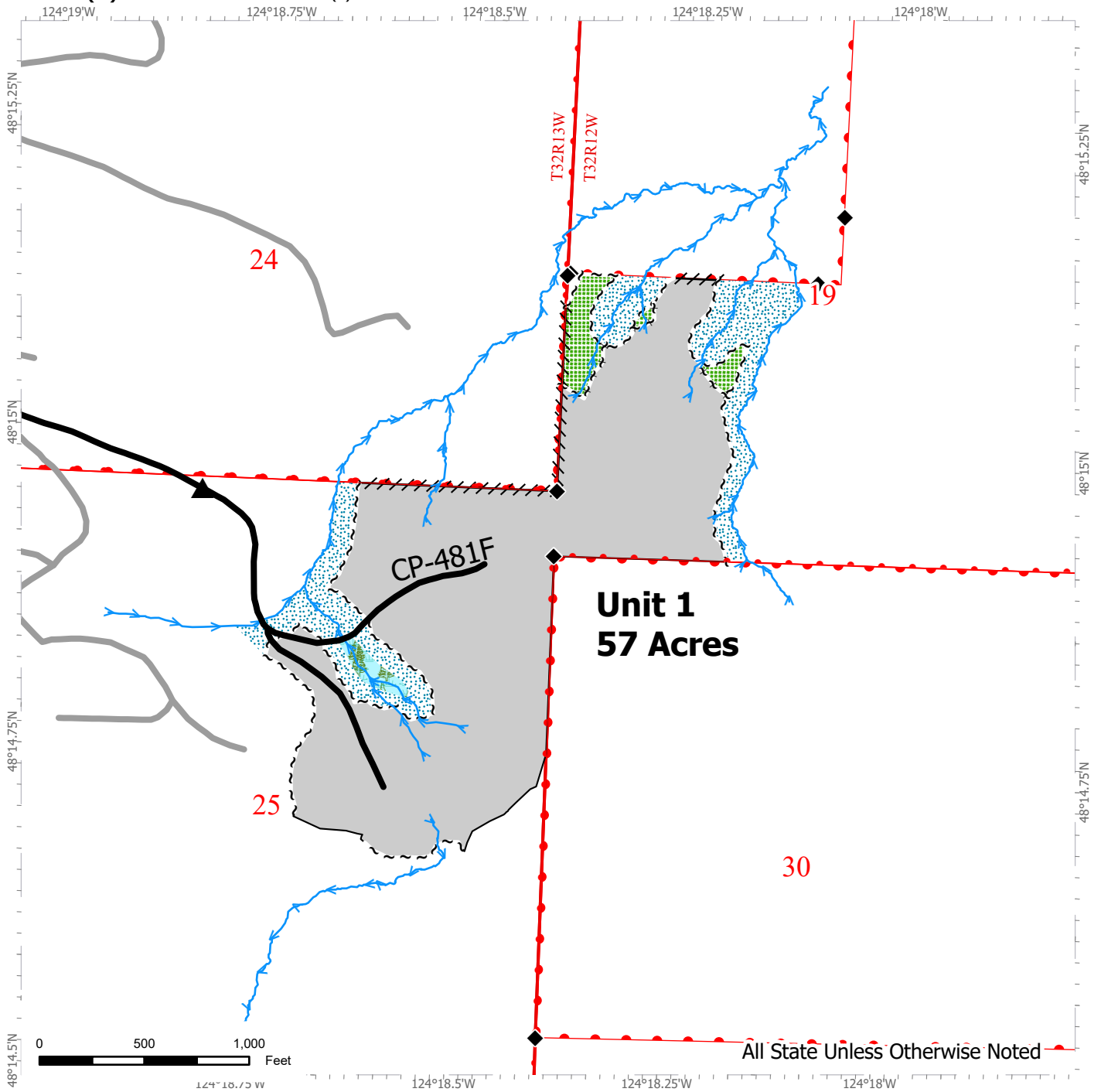
Title: State Lands Forester

CC: Erik Camacho-
Roldan

PRE CRUISE MAP

SALE NAME: DRIFTWOOD DELIGHT
AGREEMENT #: 30-106463
TOWNSHIP(S): T32R12W, T32R13W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 240'-780'



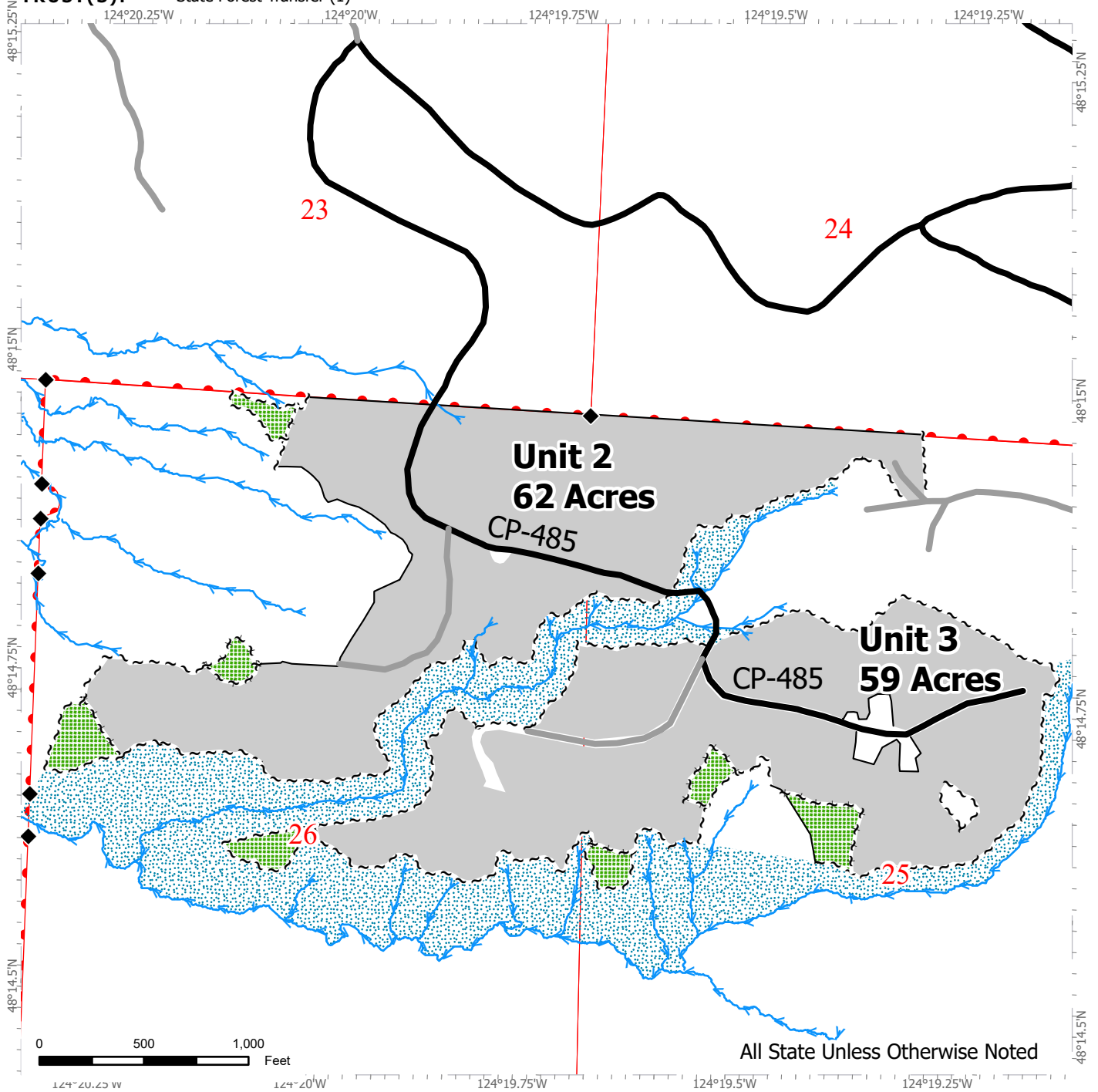
Harvest Unit	Sale Boundary Tags	Haul Route
Leave Tree Area	Leave Tree Tags	Other Route
Forested Wetland	Timber Type Change	DNR Managed Lands
Riparian Mgt Zone	Flag Line	Public Land Survey Townships
Streams	Property Line	Public Land Survey Sections
		Survey Monument



PRE CRUISE MAP

SALE NAME: DRIFTWOOD DELIGHT
AGREEMENT #: 30-106463
TOWNSHIP(S): T32R12W, T32R13W
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Harvest Unit	Sale Boundary Tags	Haul Route
Leave Tree Area	Leave Tree Tags	Other Route
Riparian Mgt Zone	Timber Type Change	DNR Managed Lands
Streams		Public Land Survey Townships
		Public Land Survey Sections
		Survey Monument



Timber Sale Cruise Report Driftwood Delight

Sale Name: DRIFTWOOD DELIGHT

Sale Type: LUMP SUM

Region: OLYMPIC

District: OZETTE

Lead Cruiser: Kevin Peterson

Other Cruisers:

Cruise Narrative:

Location:

This sale is located in Clallam Bay on the CP-481 Road. An OH1 key is needed to access the sale. Access to all units is pretty good.

Cruise Design:

For this sale I used a 54.44/40 BAF combo on unit 1 and a 40 BAF for unit 2 and 3. Merch height was determined at 40% of the diameter at 16'. All logs were cruised in 40' lengths.

Timber Quality:

This sale is over 60% WH and has a good component of DF, RA and SS. Units 2 and 3 were previously thinned and have lots of larger diameter wood. Common defects on the sale were sweep, forked tops and spike knots.

Logging and Stand Conditions:

This sale is 80% ground-based harvest and 20% uphill cable harvest. The sale is pretty flat but does have some difficult areas of brush and down trees to get through.

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
WH	17.9	6.0		2,751	1,654	869	181	46
DF	19.3	6.0		972	567	333	67	5
RA	15.4			490	106	166	120	99
SS	18.6			471	327	113	17	15
MA	21.7			15	11			4
ALL	17.7	6.0		4,699	2,665	1,480	384	169

Timber Sale Notice Weight (tons)

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
WH	26,188	14,631	9,042	2,084	431
DF	8,115	4,404	2,991	677	44
RA	4,754	1,104	1,412	1,299	939
SS	3,573	2,309	1,012	161	92

Tons by Grade					
Sp	All	2 Saw	3 Saw	4 Saw	Utility
MA	132	105			27
ALL	42,762	22,552	14,457	4,221	1,532

Timber Sale Overall Cruise Statistics

BA	BA SE	V-BAR	V-BAR SE	Net Vol	Vol SE
(sq ft/acre)	(%)	(bf/sq ft)	(%)	(bf/acre)	(%)
207.2	4.2	128.9	1.4	26,399	4.4

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
DRIFTWOOD DELIGHT U1	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 0 ft	57.0	60.1	28	14	0
DRIFTWOOD DELIGHT U2	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	62.0	65.2	30	14	0
DRIFTWOOD DELIGHT U3	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	59.0	61.8	28	13	1
All		178.0	187.1	86	41	1

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	14.0	37	3,268	3,185	2.5	4,403.8	567.0
DF	LIVE	3 SAW	Domestic	8.7	36	1,886	1,869	0.9	2,990.5	332.8
DF	LIVE	4 SAW	Domestic	5.7	22	376	374	0.4	677.1	66.6
DF	LIVE	UTILITY	Pulp	5.2	26	30	30	0.0	43.7	5.4
MA	LIVE	2 SAW	Domestic	14.6	30	85	63	24.9	104.8	11.3
MA	LIVE	UTILITY	Pulp	10.2	18	21	21	0.0	26.8	3.7
RA	LIVE	2 SAW	Domestic	12.8	40	684	593	13.4	1,103.5	105.5
RA	LIVE	3 SAW	Domestic	11.3	37	1,022	930	9.0	1,412.3	165.6
RA	LIVE	4 SAW	Domestic	7.6	39	732	672	8.2	1,298.8	119.7
RA	LIVE	UTILITY	Pulp	5.6	25	564	558	1.0	939.1	99.3
SS	LIVE	2 SAW	Domestic	15.4	36	1,910	1,835	3.9	2,309.0	326.7
SS	LIVE	3 SAW	Domestic	9.2	36	676	636	5.8	1,011.9	113.3
SS	LIVE	4 SAW	Domestic	6.6	18	94	94	0.0	160.6	16.7
SS	LIVE	UTILITY	Pulp	5.2	20	83	83	0.0	91.7	14.8
WH	LIVE	2 SAW	Domestic	14.1	38	9,614	9,294	3.3	14,630.7	1,654.3

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
WH	LIVE	3 SAW	Domestic	8.4	38	4,979	4,880	2.0	9,042.3	868.6
WH	LIVE	4 SAW	Domestic	5.5	27	1,021	1,020	0.2	2,084.3	181.5
WH	LIVE	UTILITY	Pulp	5.2	27	260	260	0.0	431.0	46.3

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Pulp	5.2	26	30	0.0	43.7	5.4
DF	5 - 8	LIVE	Domestic	6.4	28	1,106	1.6	1,922.9	196.8
DF	9 - 11	LIVE	Domestic	10.6	37	1,138	0.0	1,744.8	202.6
DF	12 - 14	LIVE	Domestic	13.2	37	1,838	3.2	2,776.9	327.1
DF	15 - 19	LIVE	Domestic	15.7	36	1,347	1.6	1,626.9	239.8
MA	9 - 11	LIVE	Pulp	10.2	18	21	0.0	26.8	3.7
MA	12 - 14	LIVE	Domestic	13.5	30	30	24.9	52.2	5.3
MA	15 - 19	LIVE	Domestic	16.2	30	34	25.0	52.6	6.0
RA	5 - 8	LIVE	Pulp	5.5	25	525	1.1	883.8	93.5
RA	5 - 8	LIVE	Domestic	7.2	39	511	8.6	1,009.4	91.0
RA	9 - 11	LIVE	Pulp	9.6	23	33	0.0	55.4	5.9
RA	9 - 11	LIVE	Domestic	10.5	38	965	9.0	1,530.7	171.8
RA	12 - 14	LIVE	Domestic	12.9	39	646	13.4	1,187.5	114.9
RA	15 - 19	LIVE	Domestic	15.3	30	74	0.0	87.0	13.2
SS	5 - 8	LIVE	Pulp	5.2	20	83	0.0	91.7	14.8
SS	5 - 8	LIVE	Domestic	6.8	26	307	2.3	582.1	54.6
SS	9 - 11	LIVE	Domestic	10.5	35	423	7.1	590.3	75.3
SS	12 - 14	LIVE	Domestic	13.5	40	616	1.4	875.4	109.7
SS	15 - 19	LIVE	Domestic	16.2	34	1,219	5.1	1,433.6	217.0
WH	5 - 8	LIVE	Pulp	5.2	27	260	0.0	431.0	46.3
WH	5 - 8	LIVE	Domestic	6.4	33	3,358	0.2	6,955.4	597.8
WH	9 - 11	LIVE	Domestic	10.7	38	2,541	3.6	4,171.2	452.3
WH	12 - 14	LIVE	Domestic	13.5	39	6,355	2.9	10,747.3	1,131.1
WH	15 - 19	LIVE	Domestic	16.0	36	2,939	4.3	3,883.4	523.2

Cruise Unit Report DRIFTWOOD DELIGHT U1

Unit Sale Notice Volume (MBF): DRIFTWOOD DELIGHT U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
WH	18.5			892	521	295	63	13
RA	15.8			389	106	109	101	74
DF	20.1			379	205	145	23	5
SS	16.7			301	198	78	9	15
ALL	17.5			1,960	1,030	627	196	106

Unit Cruise Design: DRIFTWOOD DELIGHT U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 0 ft	57.0	60.1	28	14	0

Unit Cruise Summary: DRIFTWOOD DELIGHT U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	32	62	2.2	0
RA	31	51	1.8	0
DF	12	29	1.0	0
SS	9	20	0.7	0
ALL	84	162	5.8	0

Unit Cruise Statistics: DRIFTWOOD DELIGHT U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	120.5	102.4	19.3	129.8	19.7	3.5	15,647	104.3	19.7
RA	76.0	126.9	24.0	89.8	14.3	2.6	6,821	127.7	24.1
DF	56.4	147.4	27.9	117.8	12.3	3.6	6,642	148.0	28.1
SS	38.9	146.9	27.8	135.6	23.4	7.8	5,273	148.7	28.8
ALL	291.8	35.5	6.7	117.8	23.9	2.6	34,384	42.8	7.2

Unit Summary: DRIFTWOOD DELIGHT U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	12	ALL	20.1	78	98	6,876	6,642	3.4	25.6	56.4	12.6	378.6
RA	LIVE	CUT	31	ALL	15.8	60	74	7,564	6,821	9.8	55.8	76.0	19.1	388.8
SS	LIVE	CUT	9	ALL	16.7	57	71	5,273	5,273	0.0	25.6	38.9	9.5	300.6
WH	LIVE	CUT	32	ALL	18.5	73	90	16,156	15,647	3.1	64.6	120.5	28.0	891.9
ALL	LIVE	CUT	84	ALL	17.7	67	83	35,869	34,384	4.1	171.6	291.8	69.2	1,959.9
ALL	ALL	CUT	84	ALL	17.7	67	83	35,869	34,384	4.1	171.6	291.8	69.2	1,959.9

Cruise Unit Report DRIFTWOOD DELIGHT U2

Unit Sale Notice Volume (MBF): DRIFTWOOD DELIGHT U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
WH	16.9			1,068	662	309	80	17
DF	17.3			382	220	126	36	
SS	22.1			134	97	32	5	
RA	14.0			71		57		14
ALL	17.5			1,656	979	524	121	32

Unit Cruise Design: DRIFTWOOD DELIGHT U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	62.0	65.2	30	14	0

Unit Cruise Summary: DRIFTWOOD DELIGHT U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	43	89	3.0	0
DF	17	33	1.1	0
SS	4	11	0.4	0
RA	1	6	0.2	0
ALL	65	139	4.6	0

Unit Cruise Statistics: DRIFTWOOD DELIGHT U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	118.7	45.6	8.3	145.2	21.9	3.3	17,230	50.6	9.0
DF	44.0	133.7	24.4	140.2	20.8	5.1	6,168	135.3	24.9
SS	14.7	401.9	73.4	147.4	17.1	8.5	2,162	402.2	73.9
RA	8.0	462.4	84.4	143.1	0.0	0.0	1,145	462.4	84.4
ALL	185.3	36.1	6.6	144.1	21.0	2.6	26,705	41.7	7.1

Unit Summary: DRIFTWOOD DELIGHT U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	17	ALL	17.3	71	89	6,218	6,168	0.8	27.0	44.0	10.6	382.4
RA	LIVE	CUT	1	ALL	14.0	65	80	1,145	1,145	0.0	7.5	8.0	2.1	71.0
SS	LIVE	CUT	4	ALL	22.1	79	100	2,448	2,162	11.7	5.5	14.7	3.1	134.0
WH	LIVE	CUT	43	ALL	16.9	71	88	17,603	17,230	2.1	76.2	118.7	28.9	1,068.2
ALL	LIVE	CUT	65	ALL	17.1	71	88	27,414	26,705	2.6	116.2	185.3	44.7	1,655.7
ALL	ALL	CUT	65	ALL	17.1	71	88	27,414	26,705	2.6	116.2	185.3	44.7	1,655.7

Cruise Unit Report DRIFTWOOD DELIGHT U3

Unit Sale Notice Volume (MBF): DRIFTWOOD DELIGHT U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
WH	18.5	6.0		791	471	265	38	16
DF	21.4	6.0		211	142	61	8	
SS	20.9			37	32	2	3	
RA	12.8			30			19	11
MA	21.7			15	11			4
ALL	18.5	6.0		1,083	656	328	68	31

Unit Cruise Design: DRIFTWOOD DELIGHT U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	59.0	61.8	28	13	1

Unit Cruise Summary: DRIFTWOOD DELIGHT U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	39	75	2.7	1
DF	9	19	0.7	1
SS	2	4	0.1	0
RA	3	4	0.1	0
MA	2	2	0.1	0
ALL	55	104	3.7	2

Unit Cruise Statistics: DRIFTWOOD DELIGHT U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	107.1	52.8	10.0	125.1	13.6	2.2	13,398	54.6	10.2
DF	27.1	150.4	28.4	131.5	11.4	3.8	3,571	150.8	28.7
SS	5.7	367.2	69.4	109.4	16.3	11.6	625	367.5	70.3
RA	5.7	413.7	78.2	90.0	25.5	14.7	514	414.4	79.5
MA	2.9	529.2	100.0	88.8	10.7	7.6	254	529.3	100.3
ALL	148.6	46.8	8.9	123.6	16.0	2.2	18,362	49.5	9.1

Unit Summary: DRIFTWOOD DELIGHT U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	21.4	86	109	3,597	3,571	0.7	10.9	27.1	5.9	210.7
MA	LIVE	CUT	2	ALL	21.7	60	74	317	254	20.0	1.1	2.9	0.6	15.0
RA	LIVE	CUT	3	ALL	8.3	57	69	548	514	6.2	15.2	5.7	2.0	30.3
SS	LIVE	CUT	2	ALL	20.9	72	91	668	625	6.5	2.4	5.7	1.2	36.9
WH	LIVE	CUT	39	ALL	18.5	77	96	13,786	13,398	2.8	57.4	107.1	24.9	790.5
ALL	LIVE	CUT	55	ALL	17.7	74	93	18,917	18,362	2.9	87.0	148.6	34.6	1,083.3
ALL	ALL	CUT	55	ALL	17.7	74	93	18,917	18,362	2.9	87.0	148.6	34.6	1,083.3



Forest Practices Application/Notification
Notice of Decision

FPA/N No: 2618517

Effective Date: 10/26/2024

Expiration Date: 10/26/2027

Shut Down Zone: 650

EARR Tax Credit: Eligible Non-eligible

Reference: DNR

Driftwood Delight

Decision

- Notification Accepted Operations shall not begin before the effective date.
- Approved This Forest Practices Application is subject to the conditions listed below.
- Disapproved This Forest Practices Application is disapproved for the reasons listed below.
- Withdrawn Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
- Closed All forest practices obligations are met.

FPA/N Classification

Class II Class III Class IVG Class IVS

Number of Years Granted on Multi-Year Request

4 years 5 years

Conditions on Approval/Reasons for Disapproval

Timing Limitations on Type S and F water(s):

All work below the ordinary high water line shall only occur between July 1 and September 30.

Issued By: Erik Dukes

Region: Olympic

Title: Forest Practices Forester

Date: 10/26/2024

Copies to: Landowner, Timber Owner and Operator

Issued in person: LO TO OP By: [Signature]

Date: 10.25.24

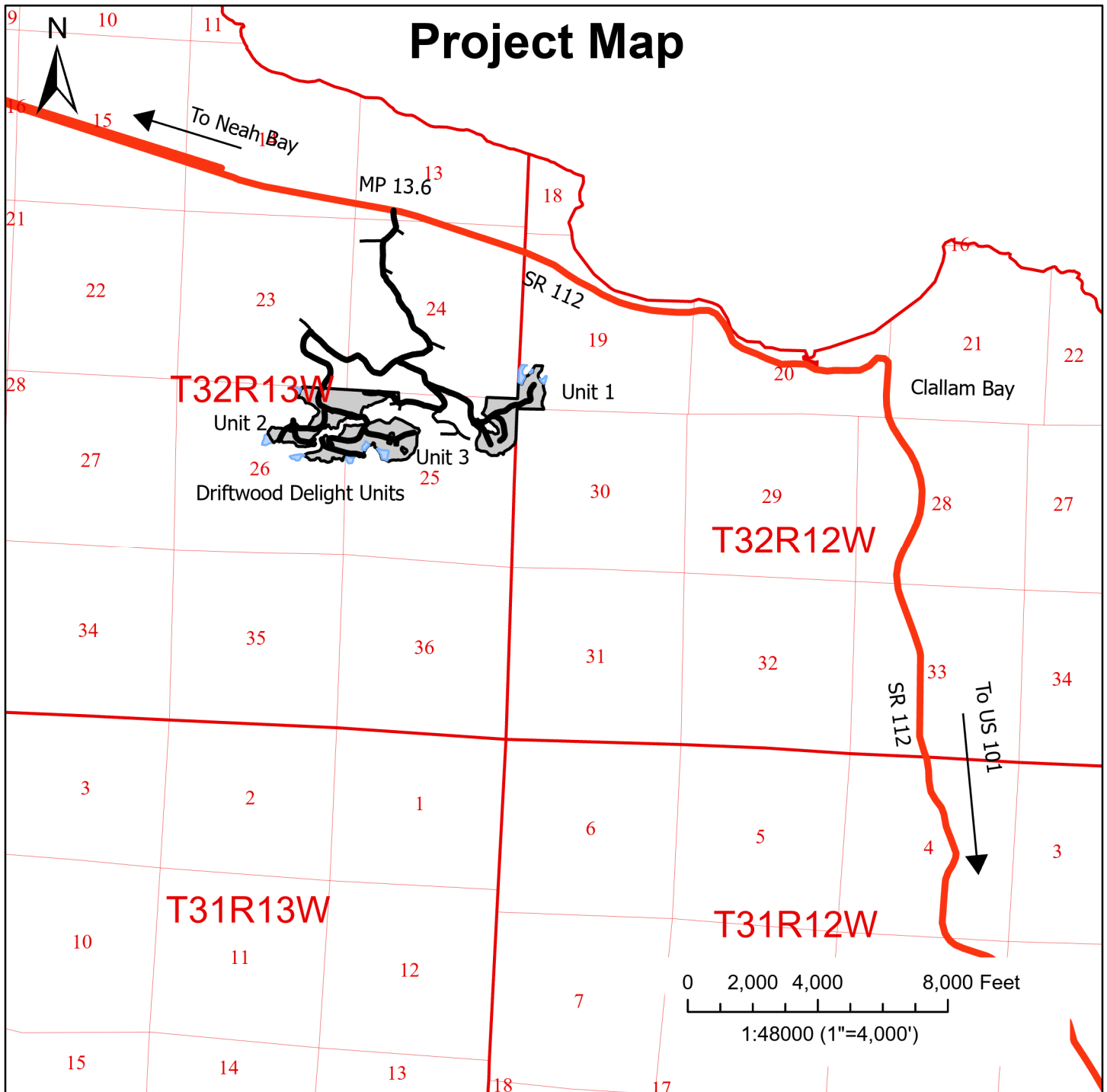
STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
DRIFTWOOD DELIGHT TIMBER SALE ROAD PLAN
CLALLAM COUNTY
COAST DISTRICT

AGREEMENT NO.: 30-106463

DISTRICT ENGINEER: BILL MEHL

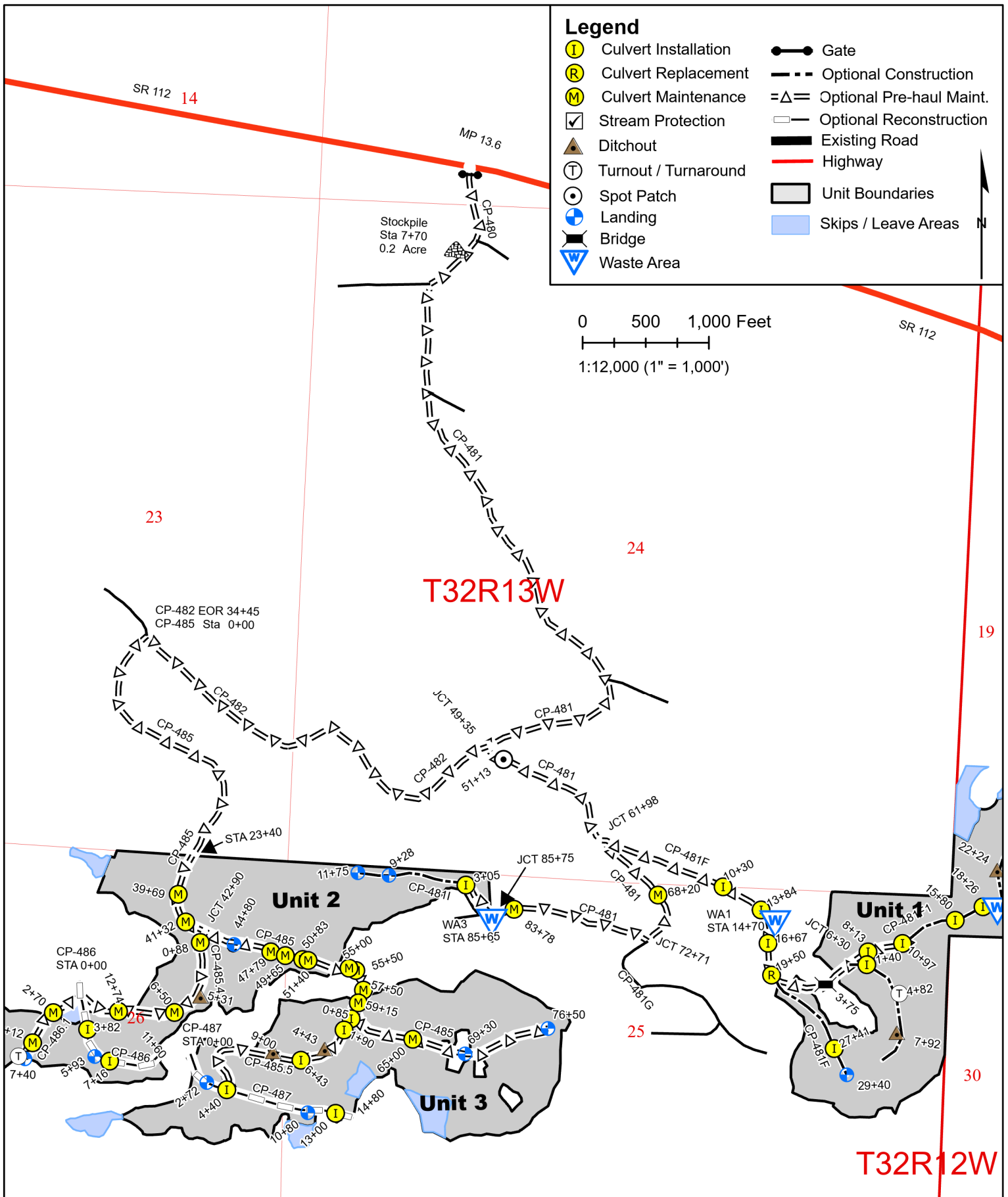
DATE 12 AUGUST 2024

DRAWN AND COMPILED BY: MAIJA GRIFFIOEN



Driftwood Delight

Haul Route



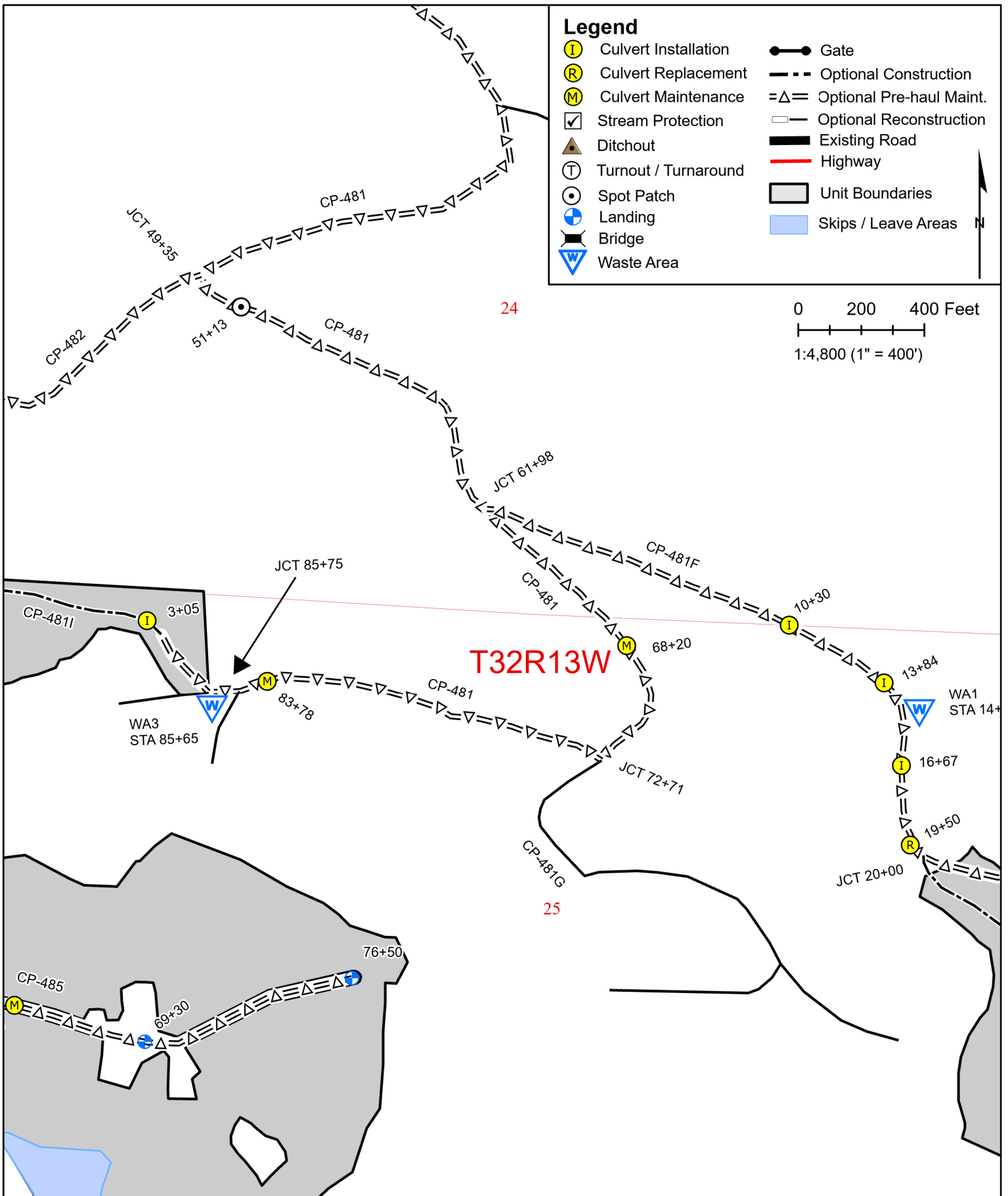
Legend

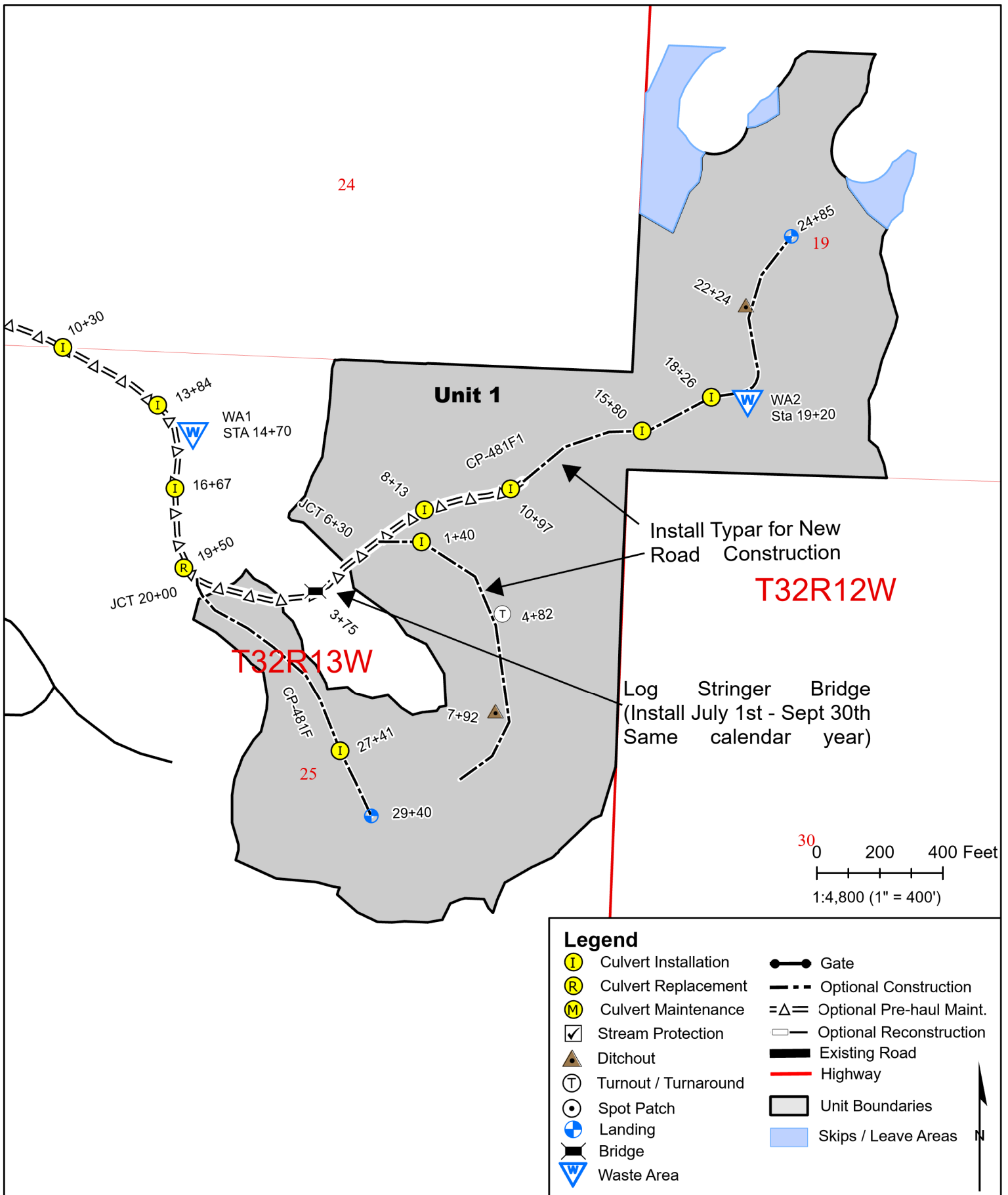
	Culvert Installation		Gate
	Culvert Replacement		Optional Construction
	Culvert Maintenance		Optional Pre-haul Maint.
	Stream Protection		Optional Reconstruction
	Ditchout		Existing Road
	Turnout / Turnaround		Highway
	Spot Patch		Unit Boundaries
	Landing		Skips / Leave Areas
	Bridge		
	Waste Area		

0 500 1,000 Feet
 1:12,000 (1" = 1,000')

Driftwood Delight

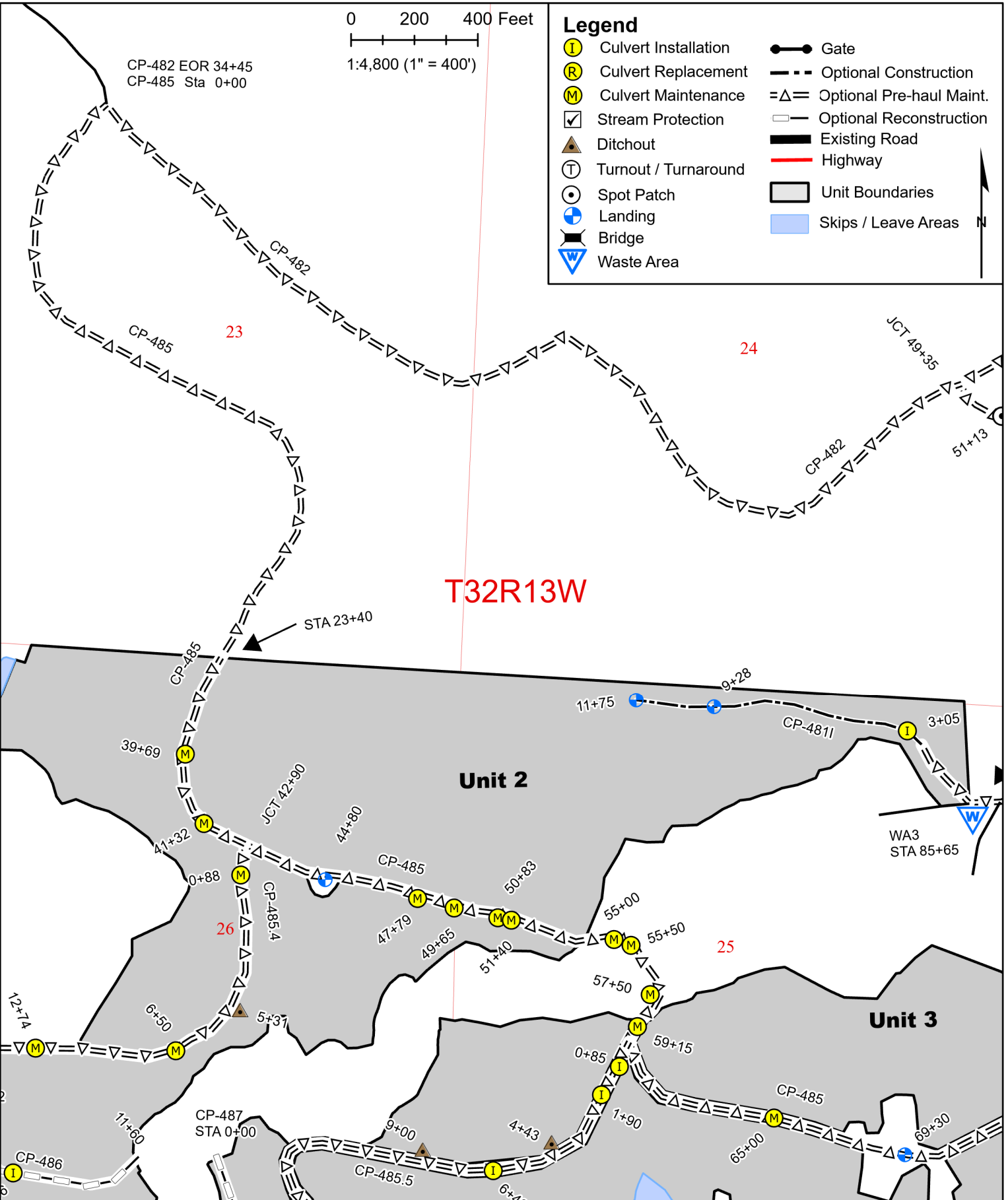
Haul Route





Driftwood Delight

Units 2 and 3



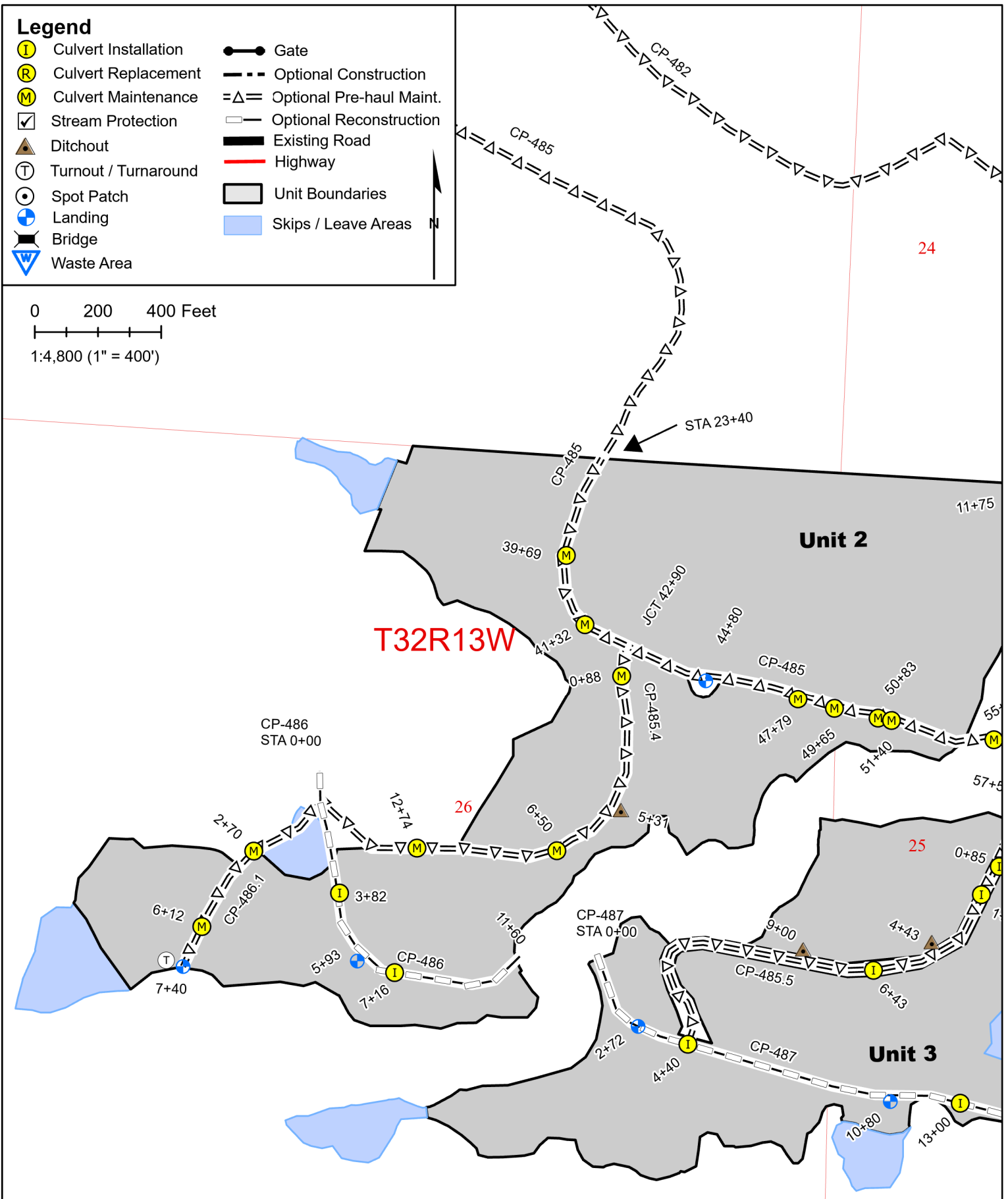
Driftwood Delight

Units 2 and 3

Legend

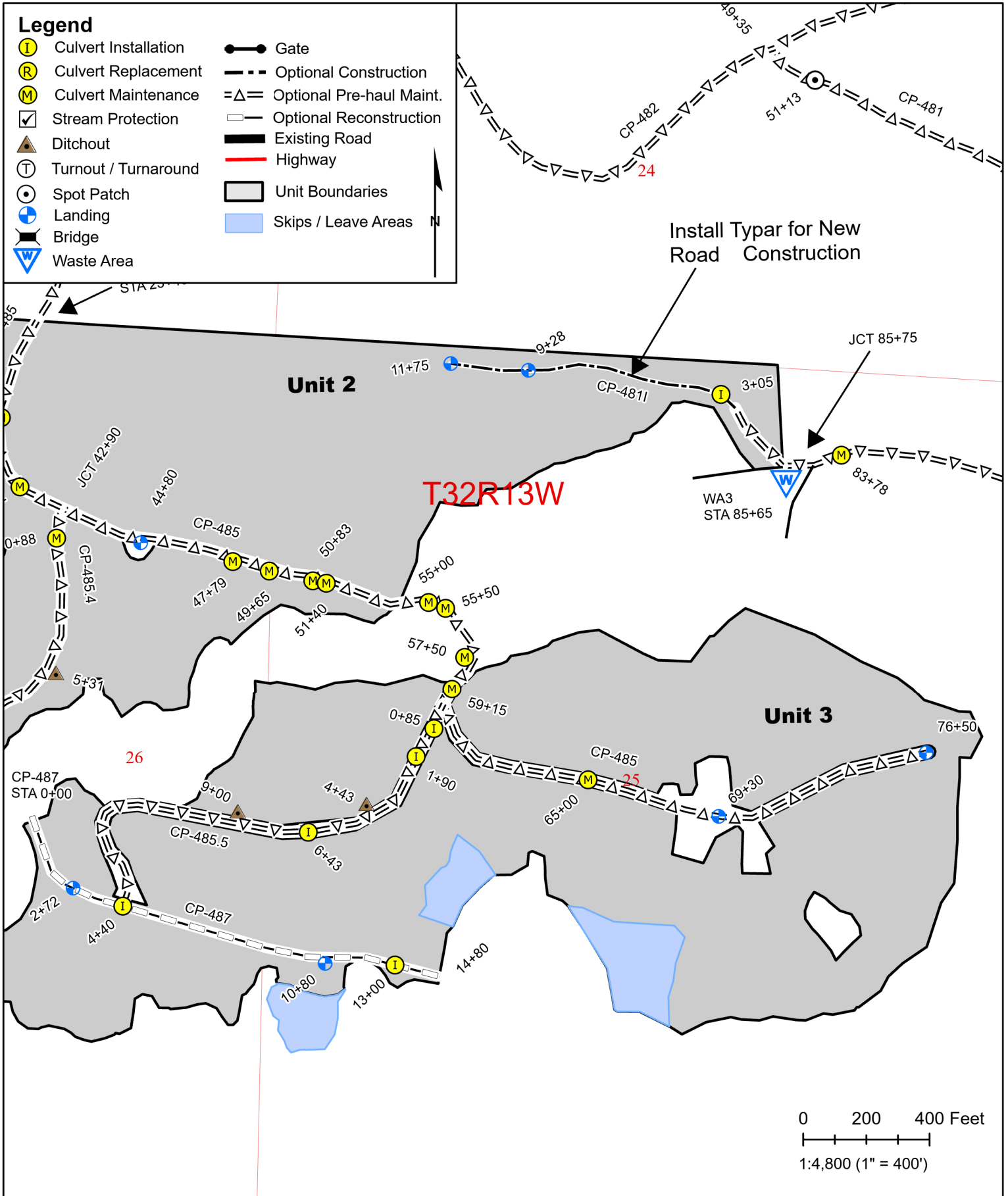
- | | |
|----------------------|--------------------------|
| Culvert Installation | Gate |
| Culvert Replacement | Optional Construction |
| Culvert Maintenance | Optional Pre-haul Maint. |
| Stream Protection | Optional Reconstruction |
| Ditchout | Existing Road |
| Turnout / Turnaround | Highway |
| Spot Patch | Unit Boundaries |
| Landing | Skips / Leave Areas |
| Bridge | |
| Waste Area | |

0 200 400 Feet
 1:4,800 (1" = 400')



Driftwood Delight

Units 2 and 3



SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

Clauses in this road plan apply to all road related work, including landings and rock source development, unless otherwise noted.

0-3 OPTIONAL ROADS

The specified work on the following roads is not required. Any optional roads built by the Purchaser must meet all the specifications in the road plan.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
CP-480	0+00 – 11+00	Pre-haul Maintenance
CP-481	0+00 – 85+75	Pre-haul Maintenance
CP-481F	0+00 – 20+00	Pre-haul Maintenance
CP-481F	20+00 – 29+40	Construction
CP-481F1	0+00 – 11+55	Pre-haul Maintenance
CP-481F1	11+55 – 24+85	Construction
11+15 Spur	0+00 – 11+15	Construction
CP-481I	0+00 – 2+40	Pre-haul Maintenance
CP-481I	2+40 – 11+75	Construction
CP-482	0+00 – 34+45	Pre-haul Maintenance
CP-485	0+00 – 76+50	Pre-haul Maintenance
CP-485.4	0+00 – 15+60	Pre-haul Maintenance
CP-485.5	0+00 – 16+90	Pre-haul Maintenance
CP-486	0+00 – 11+60	Reconstruction
CP-486.1	0+00 – 7+40	Pre-haul Maintenance
CP-487	0+00 – 14+80	Reconstruction

0-4 CONSTRUCTION

This project includes, but is not limited to the following construction requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
CP-481F	20+00 – 29+40	See Below
CP-481F1	11+55 – 24+85	See Below
11+15 Spur	0+00 – 11+15	See Below
CP-481I	2+40 – 11+75	See Below
Total:	43+20	

Construction includes, but is not limited to:

Clearing, grubbing, right-of-way debris disposal, excavation and/or embankment to subgrade, end hauling material for construction, compacting road surfaces, constructing ditchlines, constructing ditchouts, constructing turnouts and turnarounds, curve widening, acquisition and installation of drainage structures, application of rock, spreading grass seed and hay.

0-5 RECONSTRUCTION

This project includes, but is not limited to the following reconstruction requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
CP-486	0+00 – 11+60	See below

CP-487	0+00 – 14+80	See below
Total:	26+40	

Reconstruction includes, but is not limited to:
 Installing additional culvert, realigning road segments, application of rock, removing culvert.

0-6 PRE-HAUL MAINTENANCE

This project includes, but is not limited to the following prehaul maintenance requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
CP-480	0+00 – 11+00	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List.
CP-481	0+00 – 85+75	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Clean out and maintain culverts in accordance with Clause 2-6 and Culvert List. Clean out and/or construct ditches in accordance with Clause 2-7. Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Brush road in accordance with Clause 3-1. Compact rock in accordance with Clause 4-66 and Compaction List. Apply rock in accordance with Rock List.
CP-481F	0+00 – 20+00	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Clean out and/or construct ditches in accordance with Clause 2-7. Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Brush road in accordance with Clause 3-1. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List.
CP-481F1	0+00 – 11+55	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Clean out and/or construct ditches in accordance with Clause 2-7. Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Brush road in accordance with Clause 3-1. Compact rock in accordance with Clause 4-

		66 and Compaction List. Apply rock in accordance with Rock List.
CP-4811	0+00 – 2+40	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Clean out and/or construct ditches in accordance with Clause 2-7. Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Brush road in accordance with Clause 3-1. Compact rock in accordance with Clause 4-66 and Compaction List. Apply rock in accordance with Rock List.
CP-482	0+00 – 34+45	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Brush road in accordance with Clause 3-1. Compact rock in accordance with Clause 4-66 and Compaction List. Apply rock in accordance with Rock List.
CP-485	0+00 – 76+50	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Clean out and maintain culverts in accordance with Clause 2-6 and Culvert List. Clean out and/or construct ditches in accordance with Clause 2-7. Brush road in accordance with Clause 3-1. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List.
CP-485.4	0+00 – 15+60	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Clean out and maintain culverts in accordance with Clause 2-6 and Culvert List. Clean out and/or construct ditches in accordance with Clause 2-7. Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Brush road in accordance with Clause 3-1. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List.
CP-485.5	0+00 – 16+90	Grade, shape, and compact existing road surface in accordance with Clause 2-5. Clean out and/or construct ditches in accordance with Clause 2-7. Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Brush road in accordance with Clause 3-1.

		Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List.
CP-486.1	0+00 – 7+40	Clean out and maintain culverts in accordance with Clause 2-6 and Culvert List. Clean out and/or construct ditches in accordance with Clause 2-7. Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Brush road in accordance with Clause 3-1. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List.
Total:	281+55	

Maintenance includes, but is not limited to:

Brushing right-of-way, right-of-way debris disposal, cleaning ditches, constructing ditches, installing additional culverts, widening road segments, constructing headwalls, cleaning culvert inlets and outlets, cross drain culvert replacement, installing erosion control materials and sediment removal structures, spot rocking, grading and shaping existing road surface and turnouts, constructing additional turnouts, compaction of road surface, application of rock, acquisition and application of grass seed and hay.

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 POST-HAUL MAINTENANCE.

0-8 CLOSURE

This project includes road closure listed in Clause 9-15 ROAD CLOSURE.

0-13 STRUCTURES

The Purchaser shall acquire and install all structures. Requirements for these structures are listed in Section 7 Structures.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this Road Plan including, but not limited to relocation, extension, change in design, or adding roads; a revised road plan shall be submitted, in writing, to the Contract Administrator for consideration. The State must approve the submitted plans before road work begins.

1-2 UNFORESEEN CONDITIONS

Quantities established in this road plan are minimum acceptable values. Additional quantities required by the state due to unforeseen conditions, or Purchaser's choice of construction season or techniques will be at the Purchaser's expense. Unforeseen conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

1-3 ROAD DIMENSIONS

Unless controlled by construction stakes or design data (plan, profile, and cross-sections), road work shall be performed in accordance with the dimensions shown on the Typical Section Sheet and the specifications within this Road Plan.

1-5 DESIGN DATA

Design data is available upon request at the Department of Natural Resources Olympic Region Office in Forks, WA.

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in this Road Plan shall be resolved by giving the documents precedence in the following order:

1. Addenda.
2. Designs or Plans. On designs and plans, figured dimensions shall take precedence over scaled dimensions.
3. Road Plan Clauses.
4. Typical Section Sheet.
5. Standard Lists.
6. Standard Details.

In case of any ambiguity or dispute over interpreting the Road Plan, the Contract Administrator’s or designee’s decision will be final.

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

The Purchaser is responsible for the repair or replacement of all materials, roadway infrastructure, and road components damaged during roadwork or operation activities. Repairs and replacements shall be directed by the Contract Administrator. Repairs to structural materials will be made according to the manufacturer’s recommendation, and shall not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any damaged galvanized or aluminized coating on existing or new bridge components, culverts, downspouts, and flumes must be cleaned and treated with a minimum of two coats of zinc rich paint.

1-11 FPHP REQUIREMENTS

The following work is subject to requirements under a Forest Practice Hydraulics Project Approval issued by the State of Washington.

<u>FPA Crossing Identifier</u>	<u>Road</u>	<u>Stations</u>	<u>Work Type</u>	<u>Timing Restriction</u>
C-2	CP-481F1	3+45 – 4+05	Log Stringer Bridge	July 1 st - September 30 th

1-12 SURVEY MONUMENTS

At no time during construction, reconstruction, or maintenance shall survey monuments, witness trees, or bearing trees be disturbed or damaged. If damaged or disturbed, Purchaser shall hire a licensed land surveyor to repair, replace, and/or reset them.

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

Road work must be in accordance with the State's marked location. All road work is marked as follows:

- Orange ribbon and paint for construction centerlines.
- Construction stakes for everything else.

1-16 CONSTRUCTION STAKES SET BY STATE

Purchaser shall perform work on the following road(s) in accordance with the construction stakes set in the field for grade and alignment. Reconstruction of existing road grades must conform to the original location except where construction staked or designed.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
CP-481F	19+40 – 19+60	Culvert Replacement
CP-481F	20+00 – 29+40	Flagging
CP-481F1	3+45 – 4+05	Log Stringer Bridge Install
CP-481F1	11+55 – 24+85	New Road Construction
11+15 Spur	0+00 – 11+15	New Road Construction
CP-481I	2+40 – 11+75	New Road Construction
CP-486	0+00 – 11+60	Reconstruction
CP-487	0+00 – 14+80	Reconstruction

1-18 REFERENCE POINT DAMAGE

Purchaser shall reset reference points (RPs) that were moved or damaged at any time during construction to their original locations. Excavation and embankment may not proceed on road segments controlled by said RPs until Purchaser resets all moved or damaged RPs.

SUBSECTION TIMING

1-20 COMPLETE BY DATE

Purchaser shall complete pre-haul road work before the start of timber haul.

1-21 HAUL APPROVAL

The Purchaser shall not use roads under this Road Plan without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

On all roads, the Purchaser shall notify the Contract Administrator a minimum of 3 calendar days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Written approval by Contract Administrator needs to be given at these phases of road work:

- Subgrade approval
- Drainage installation
- Subgrade compaction
- Rock application

- Rock compaction

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

On the following road(s), the specified activities are not permitted during the listed closure period(s) unless authorized in writing by the Contract Administrator.

<u>Road</u>	<u>Stations</u>	<u>Activity</u>	<u>Closure Period</u>
All	All	All Activity	October 15 th – April 15 th
CP-481F	19+40 – 19+60	Culvert replacement	October 1 st – June 30 th
CP-481F1	3+45 – 4+05	Log Stringer bridge installation	October 1 st – June 30 th

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 Activity Timing Restriction, the Purchaser shall provide a maintenance plan to include further protection of State resources. The Contract Administrator must approve the maintenance plan in writing, and preventative measures shall be put in place before operation in the closure period. The Purchaser shall be required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 Designated Road Maintainer. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan shall be developed. All parties shall follow this plan.

1-29 SEDIMENT RESTRICTION

Purchaser shall not allow silt-bearing runoff to enter any streams.

1-30 CLOSURE TO PREVENT DAMAGE

In accordance with Contract Clause G-220 State Suspends Operation, the Contract Administrator shall suspend road work or hauling of right-of-way timber, forest products, or rock under the following conditions:

- In the opinion of the Contract Administrator excessive road damage or rutting may occur.

Operations must stop unless authority to continue working or hauling is granted, in writing, by the Contract Administrator. In the event that surface or base stability problems persist, the Purchaser will be required to cease operations, or perform corrective maintenance or repairs, subject to specifications within this Road Plan. Before and during any suspension, the Purchaser shall protect the work from damage or deterioration.

1-32 BRIDGE AND ASPHALT SURFACE RESTRICTION

The use of metal tracked equipment is not allowed on bridge or asphalt surfaces at any time. If Purchaser must run equipment on bridge or asphalt surfaces, then rubber tired equipment or other methods, as approved in writing by Contract Administrator, shall be used.

If tracked equipment is used on bridge or asphalt surfaces, Purchaser shall immediately cease all road work and hauling operations. Any dirt, rock, or other material tracked or spilled on bridge or asphalt surface(s) shall be removed immediately. Any damage to the surface(s) shall be repaired at the Purchaser's expense as directed by the Contract Administrator.

1-33 SNOW PLOWING RESTRICTION

On all roads, snow plowing shall be permitted only after the execution of a Snow Plowing Agreement, which is available from the Contract Administrator upon request. Purchaser shall request a Snow Plowing Agreement each time plowing occurs. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

SUBSECTION OTHER INFRASTRUCTURE

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

At existing road approaches to county roads and state highways, any mud, dirt, rock or other material tracked or spilled on the asphalt surface shall be removed immediately by the Purchaser.

If additional damage to the surface, signs, guardrails, etc. occurs then the damage shall be repaired, at the Purchaser's expense, as directed by the Contract Administrator when authorized by the county or WSDOT.

The following county roads and state highways are affected by this sale:

<u>Road Name</u>
SR112
Mary Clark County Road

1-41 REQUIREMENTS FOR PAVED ROAD APPROACHES

Requirements for the paved road approaches:
Purchaser shall build up approaches to allow a smooth grade transition. The top of the rock road surfacing must be always kept level with the surface of the paved roads.

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

Purchaser shall maintain all roads used under this contract in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS for the entire term of this contract. Maintenance is required even during periods of inactivity.

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

Purchaser shall perform maintenance on roads listed in Contract Clause C-050 PURCHASER ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

Purchaser may be required to perform maintenance on roads listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER as directed by the Contract Administrator. Purchaser shall maintain roads in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

C-060 Designated Roads

<u>Road</u>	<u>Stations</u>
Mary Clark Pit Access Road	All

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following road(s), a grader shall be used to shape the existing surface.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
CP-480	0+00 – 11+00	Grade and shape and compact existing road surface.
CP-481	0+00 – 85+75	Grade and shape and compact existing road surface.
CP-481F	0+00 – 20+00	Grade and shape and compact existing road surface.
CP-481F1	0+00 – 11+55	Grade and shape and compact existing road surface.
CP-481I	0+00 – 2+40	Grade and shape and compact existing road surface.
CP-482	0+00 – 34+45	Grade and shape and compact existing road surface.
CP-485	0+00 – 59+50	Grade and shape and compact existing road surface.
CP-485.4	0+00 – 15+60	Grade and shape and compact existing road surface.
CP-485.5	0+00 – 16+90	Grade and shape and compact existing road surface.

2-6 CLEANING CULVERTS

On the following road(s), all inlets and outlets of culverts shall be cleaned before the start of timber haul and shall be subject to the written approval of the Contract Administrator.

<u>Road</u>	<u>Stations</u>
CP-481	68+20, 83+78
CP-485	39+96, 41+32, 47+79, 49+65, 50+83, 51+40, 55+00, 57+50, 59+15, 65+00
CP-485.4	0+88, 6+50, 12+79
CP-486.1	2+70, 6+12

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall clean and/or construct the ditches, headwalls, and catch basins. Work shall be completed before the start of timber haul and shall be done in accordance with the Typical Section Sheet. Pulling ditch material across the road or mixing in with the road surface will not be allowed. Ditch lines, headwalls, and catch basins shall not encroach into the existing road.

<u>Road</u>	<u>Stations</u>	<u>Left or Right</u>	<u>Comments</u>
CP-481	49+35 – 85+75	L & R	End haul waste to designated waste area in accordance with Clause 4-37.
CP-481F	0+00 – 20+00	R	Scatter waste in accordance with Clause 4-38.
CP-481F1	0+00 – 11+55	R	Scatter waste in accordance with Clause 4-38.
CP-481I	0+00 – 2+40	L & R	Scatter waste in accordance with Clause 4-38.
CP-485	23+40 – 76+50	L	Scatter waste in accordance with Clause 4-38.

CP-485.4	0+00 – 15+60	L & R	Scatter waste in accordance with Clause 4-38.
CP-485.5	0+00 – 16+90	L & R	Scatter waste in accordance with Clause 4-38.
CP-486.1	0+00 – 7+40	L & R	Scatter waste in accordance with Clause 4-38.

2-9 REMOVING VEGETATIVE MATERIAL

On the following road(s), Purchaser shall remove all vegetative material, dirt, mud, and other debris on the existing road surface with a minimum loss of rock. Material removed shall be disposed of in accordance with Clause 3-21 through Clause 3-25 and Clause 4-36 through Clause 4-38.

<u>Road</u>	<u>Stations</u>
CP-481	72+71 – 85+65
CP-481F	15+00 – 20+00
CP-481F1	0+00 – 11+55
CP-481I	0+00 – 2+40
CP-485.4	0+00 – 15+60
CP-485.5	0+00 – 16+90
CP-486.1	0+00 – 7+40

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION BRUSHING

3-1 BRUSHING

On the following road(s), vegetative material up to 5 inches in diameter, including limbs, shall be cut as shown on the Brushing Detail. Brushing shall be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation shall not be disturbed unless directed by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
CP-481	0+00 – 85+75
CP-481F	0+00 – 20+00
CP-481F1	0+00 – 11+55
CP-481I	0+00 – 2+40
CP-482	0+00 – 34+45
CP-485	0+00 – 76+50
CP-485.4	0+00 – 15+60
CP-485.5	0+00 – 16+90
CP-486.1	0+00 – 7+40

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal shall not be used for brushing. Excavator buckets, log loaders and similar equipment shall not be used for brushing.

3-3 BRUSH REMOVAL

Remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets. Brush should be disposed of so that it will not fall back onto the road prism.

SUBSECTION CLEARING

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 5 inches DBH or over 15 feet high between the marked right-of-way boundaries or if not marked in the field, between the clearing limits specified on the TYPICAL SECTION SHEET. Clearing must be completed before starting excavation and embankment.

3-6 CLEARING WITHIN RIPARIAN AREA AT TYPE 1-3 STREAM CROSSING

Purchaser shall place a log, with length equal to two (2) times the width of the ordinary high water, from the largest diameter class conifer tree cut from within the Inner Zone (25 feet either side of the stream) in the stream in accordance with the Log Stringer Bridge Drawings.

3-7 RIGHT-OF-WAY DECKING

Deck all merchantable right-of-way timber. Decks shall be parallel to the road centerline and placed within the cleared right-of-way. Decks shall be free of dirt, limbs and other right-of-way debris, and removable by standard log loading equipment.

3-8 PROHIBITED DECKING AREAS

Right-of-way timber shall not be decked in the following areas:

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 40%.
- Against standing trees unless approved by the Contract Administrator.

SUBSECTION GRUBBING

3-10 GRUBBING

Remove all stumps between the grubbing limits specified on the Typical Section Sheet. Those stumps outside the grubbing limits but with undercut roots shall also be removed. Stump removal shall be accomplished using a hydraulic mounted excavator unless authorized, in writing, by the Contract Administrator. Grubbing shall be completed before starting excavation and embankment.

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

In the following waste area(s), the removal of stumps is not required within waste areas if they are cut flush with the ground.

<u>Road</u>	<u>Waste Area</u>	<u>Stations</u>
CP-481F1	WA 2	18+90 – 19+40

SUBSECTION ORGANIC DEBRIS

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clauses G-010 Products Sold And Sale Area or G-011 Right To Remove Forest Products And Contract Area, that is larger than one cubic foot in volume within the grubbing Typical Section Sheet.

3-21 DISPOSAL COMPLETION

All disposal of organic debris, shall be completed before the application of rock.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

Waste areas for organic debris at the following locations shall be located as listed below.

<u>Road</u>	<u>Stations</u>	<u>Waste Area Location</u>
CP-481	61+98 – 85+75	WA3

3-23 PROHIBITED DISPOSAL AREAS

Organic debris shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert.
- Within 50 feet of a live stream, or wetland.
- On road subgrades road prism excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush will fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

Organic debris shall not be buried unless otherwise stated in this Road Plan.

3-25 SCATTERING ORGANIC DEBRIS

Organic debris shall be scattered outside of the grubbing limits in accordance with Clause 3-23 unless otherwise detailed in this Road Plan and as directed by the Contract Administrator.

SUBSECTION PILE

3-31 PILING

Organic debris shall be piled no closer than 20 feet from standing timber and no higher than 20 feet in areas specified in Clause 3-22 Designated Waste Area For Organic Debris. Piles shall be free of rock and soil.

3-32 END HAULING ORGANIC DEBRIS

On the following road(s), organic debris shall be end hauled or pushed to the designated waste areas specified in Clause 3-22 Designated Waste Area For Organic Debris, or to a waste area located by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
CP-481	61+98 – 85+75

SECTION 4 – EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

All roads shall be constructed, reconstructed, and maintained using a track mounted hydraulic excavator unless stated otherwise within this Road Plan, or permission to do otherwise is granted in writing by the Contract Administrator.

4-2 PIONEERING

Pioneering shall not extend past construction that will be completed during the current construction season. Pioneering shall not extend more than 1000 feet beyond completed construction unless approved in writing by the Contract Administrator. In addition, the following actions shall be taken as pioneering progresses:

- Drainage shall be provided on all uncompleted construction.
- Road pioneering operations shall not undercut the final cut slope or restrict drainage.
- Culverts at live stream crossings shall be installed during pioneering operations prior to embankment.

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

The following road grade and alignment standards shall be followed:

- Grade and alignment shall have smooth continuity, without abrupt changes in direction.
- Maximum grade shall not exceed 18 percent favorable and 16 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Sag vertical curves shall not have a grade change greater than 5% in 100 feet.
- Crest vertical curves shall not have a grade change greater than 4% in 100 feet.

4-4 SWITCHBACK STANDARDS

A switchback is defined as a curved segment of road between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees.

The following standards for switchbacks shall be followed:

- Adverse grades on switchbacks shall not exceed 10%.
- Favorable grades through switchbacks shall not exceed 12%.
- Transition grades entering and leaving switchbacks shall not exceed a 5% grade change.
- Transition grades required to meet switchback grade limitations shall be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

Unless construction staked or designed excavation slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>	<u>Excavation Slope Percent</u>
Common Earth (on side slopes up to 55%)	1:1	100
Common Earth (56% to 70% side slopes)	¾:1	133
Common Earth (on slopes over 70%)	½:1	200
Fractured or loose rock	½:1	200
Hardpan or solid rock	¼:1	400

4-6 EMBANKMENT SLOPE RATIO

Unless construction staked or designed embankment slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Embankment Slope Ratio</u>	<u>Embankment Slope Percent</u>
Sandy Soils	2:1	50
Common Earth and Rounded Gravel	1½:1	67
Angular Rock	1¼:1	80

4-7 SHAPING CUT AND FILL SLOPE

Excavation and embankment slopes shall be constructed to a uniform line and left rough for easier revegetation.

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

- 6 feet for curves of 50 to 79 feet radius.
- 4 feet for curves of 80 to 100 feet radius.

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

- 2 feet for embankment heights at centerline of 2 to 6 feet.
- 4 feet for embankment heights at centerline of greater than 6 feet.

Embankment widening shall be applied equally to both sides of the road to achieve the required width.

SUBSECTION INTERSECTIONS, TURNOUTS AND TURNAROUNDS

4-21 TURNOUTS

Turnouts shall be intervisible with maximum of 1,000 feet between turnouts unless shown otherwise on drawings. Locations shall be adjusted to fit the final subgrade alignment and sight distances. Turnout locations shall be subject to written approval by the Contract Administrator.

4-22 TURNAROUNDS

Turnarounds shall be no larger than 50 feet long and 30 feet wide. Locations shall be subject to written approval by the Contract Administrator.

SUBSECTION DITCH CONSTRUCTION

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

The Purchaser shall construct ditches into the subgrade as specified on the Typical Section Sheet. Excavated slopes shall be consistent with Clause 4-5 Cut Slope Ratio. Ditches shall be constructed concurrently with construction of the subgrade.

4-27 DITCH WORK – MATERIAL USE PROHIBITED

On all roads, pulling ditch material across the road or mixing in with the road surface will not be allowed. Excavated material shall be disposed of as specified in Clause 4-36 through Clause 4-38.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Ditchouts shall be constructed at locations shown on the list below, and as needed to fit as built conditions. Ditchouts shall be constructed in a manner that diverts ditch water onto the forest floor and shall have excavation backslopes no steeper than a 1:1 ratio. L or R denotes ditchout left or ditchout right heading in.

<u>Road</u>	<u>Stations</u>
CP-481F1	22+24 L
11+15 Spur	7+92 R
CP-485.4	5+31 L
CP485.5	4+43 R, 9+00 R

SUBSECTION WASTE MATERIAL (DIRT)

4-35 WASTE MATERIAL DEFINITION

Waste material is defined as all dirt, rock, mud, or related material that is extraneous or unsuitable for construction material. Waste material, as used in Section 4 EXCAVATION, is not organic debris.

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

4-37 WASTE AREA LOCATION

Waste material shall be deposited in the listed designated areas. The amount of material to be contained in a waste area shall be at the discretion of the Contract Administrator.

Note: All amount values are estimated bank yards.

<u>Waste Area Location</u>	<u>Waste Generated From Road</u>	<u>Estimated Volume (Cubic Yards)</u>	<u>Waste Area Permitted Vol.</u>
WA1	CP-481F Culvert 19+50	400	1600
WA1	CP-481F1 Sta 3+75 Bridge	350	1600
WA1	11+15 Spur Construction	450	1600
WA2	CP-481F1 11+55 – 24+85 Construction	665	1000
WA3	CP-481I 2+40 – 11+75 Construction	380	500

4-38 PROHIBITED WASTE DISPOSAL AREAS

Waste material shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert.
- Within 50 feet of a live stream or wetland.
- Within a riparian management zone.
- On side slopes steeper than 45%.

- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- Against standing timber.

4-39 WASTE AREA COMPACTION

Excavated material may be deposited adjacent to the road prism on side slopes up to 45% if the waste material is compacted and free of debris. On side slopes of 45% or more, all excavation shall be end hauled or pushed to designated waste areas. All waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over the entire width of the lifts, with the exception of side hill embankments too narrow to accommodate excavation equipment which may be placed by end-dumping or sidecasting until sufficiently wide to support the equipment.

SUBSECTION BORROW

4-45 SELECT BORROW

Select borrow shall consist of granular material, either naturally occurring or processed, and shall contain no more than 5% clay, organic debris, or trash by volume.

4-46 COMMON BORROW

Common borrow shall consist of soil, and/or aggregate that is non-plastic and shall contain no more than 5% clay, organic debris, or trash by volume. The material is considered non-plastic if the fines (passes the U.S. #40 sieve) in the sample cannot be rolled between the hand and a smooth surface into a thread at any moisture content.

4-47 NATIVE MATERIAL

Native material shall be excavated material free of organic debris, trash, and rocks greater than 12" in any dimension.

4-48 BORROW MATERIAL

Borrow material shall contain no more than 5% clay, organic debris, or trash by volume.

SUBSECTION SHAPING

4-55 ROAD SHAPING

The road subgrade and surface shall be shaped as shown on the Typical Section Sheet. The subgrade and surface shape shall ensure runoff in an even, un-concentrated manner, and shall be uniform, firm, and rut-free.

4-56 DRY WEATHER SHAPING

At any time of year, the Contract Administrator may require the application of water to facilitate shaping activities. The method of water application is subject to written approval by the Contract Administrator.

SUBSECTION COMPACTION

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material in accordance with the Compaction List by routing equipment over the entire width of each lift. A plate compactor must be used for areas specifically requiring keyed embankment construction, and embankment segments too narrow to accommodate equipment.

4-61 SUBGRADE COMPACTION

Purchaser shall compact constructed and reconstructed subgrades in accordance with the Compaction List by routing equipment over the entire width, except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before placement of rock.

4-62 DRY WEATHER COMPACTION

At any time of the year, the Contract Administrator may require the application of water to facilitate compaction activities. The method of water application is subject to written approval by the Contract Administrator.

4-63 EXISTING SURFACE COMPACTION

Purchaser shall compact maintained road surfaces in accordance with the Compaction List by routing equipment over the entire width.

4-64 WASTE MATERIAL COMPACTION

All waste material shall be compacted by running equipment over it or bucket tamping.

4-65 CULVERT BACKFILL COMPACTION

Culvert backfills shall be accomplished by using a jumping jack compactor, performing at least 2 passes per lift, in lifts not to exceed 8 inches.

4-66 COMPACTION BY METHOD

Compaction shall consist of three complete passes over the entire width of each lift with a vibratory drum roller weighing a minimum of 6,000 pounds at a maximum operating speed of 3 mph. For embankment segments too narrow to accommodate a drum roller, a plate compactor shall be used.

SUBSECTION SUBGRADE REINFORCEMENT

4-70 SUBGRADE REINFORCEMENT

On the following road(s), the Purchaser shall provide and install geotextile fabric as directed by the Contract Administrator. Geotextile fabric shall be overlapped by a minimum of 2 feet at all joints or as directed by manufacturer's directions. The geotextile fabric will then be covered with a minimum of 12 inches of compacted Pitrun. Geotextile fabric shall meet the specifications in Clause 10-2.

<u>Road</u>	<u>Stations</u>
CP-481F1	11+55 – 27+40
11+15 Spur	0+00 – 11+15
CP-481I	2+40 – 11+75

SECTION 5 – DRAINAGE

SUBSECTION CULVERTS

5-5 CULVERTS

Culverts shall be installed as part of this contract. Culverts shall be installed concurrently with subgrade work and shall be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the Culvert List. Culvert, downspout, and flume lengths shall be adjusted to fit as-built conditions and shall not terminate directly on unprotected soil. Culverts shall be new and meet the material specifications in Clauses 10-15 through 10-24.

5-11 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the Culvert List and Rock List that are not installed shall become the property of the State. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-12 CONTINGENCY CULVERTS

The following culverts will be supplied by the Purchaser and will be available for installation on any road listed in the TYPICAL SECTION SHEET as directed by the Contract Administrator. Unused pipes will be located at MARY CLARK PIT or as directed by C/A prior to contract expiration.

<u>Road</u>	<u>Quantity</u>	<u>Size</u>
As Directed by C/A	2	18"x30'

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

Installation shall be in accordance with the Typical Cross Drain Culvert Installation Detail, Typical Type Ns Np Culvert Installation Detail, the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures", and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe shall be installed in a manner consistent with the manufacturer's recommendations.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

Installation of culverts 30 inches in diameter and over shall be subject to written approval by the District Engineer or their designee before backfilling.

5-17 CROSS DRAIN SKEW AND SLOPE

Cross drains on road grades in excess of 3% shall be skewed at least 30 degrees from perpendicular to the road centerline, except where the cross drain is at the low point in the road. Where the cross drain is at the low point in the road, culverts shall not be skewed. Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3% or more than 10%.

5-18 CULVERT DEPTH OF COVER

Cross drain culverts shall be installed with a depth of cover of not less than 18 inches of compacted depth over the top of the culvert at the shallowest point. Stream crossing

culverts shall be installed with a depth of cover specified in the Engineer's design, Type Ns Np Typical Detail Sheet, or to the minimum depth recommended by the culvert manufacturer for the type of cover material over the pipe, whichever is greater.

SUBSECTION ENERGY DISSIPATERS

5-20 ENERGY DISSIPATERS

Energy dissipaters shall be installed to prevent erosion and are subject to approval by the Contract Administrator. Rock shall weigh at least 10 pounds and be placed by zero-drop-height method. Energy dissipater shall extend a minimum of $\frac{3}{4}$ foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet.

5-21 DOWNSPOUTS AND FLUMES

Downspouts and flumes longer than 10 feet shall be staked on both sides at maximum intervals of 10 feet with 6-foot heavy-duty steel posts or 1 $\frac{1}{2}$ " X 3/16" angle iron, and fastened securely to the posts with No. 10 galvanized smooth wire, or bolted using minimum 5/16" bolts and 2 washers per bolt, in accordance with the Culvert Installation Typical Details Page.

5-22 ABOVE GROUND CULVERT ENERGY DISSIPATORS

At the end of the culvert, approximately 1 yd³ of oversize material shall be placed. The extents of placement shall be in accordance with Culvert Installation Typical Details Page.

5-23 STAKING ABOVE GROUND CULVERTS

Culverts shall be staked on both the outlet and inlet. In addition, no more than 10ft of culvert shall be allowed without being staked. Staking shall consist of driving two heavy duty steel fence posts, or 1 $\frac{1}{2}$ " X 3/16" angle iron, at least 2 feet into the ground at each point, and attaching them to the culvert using No.10 or larger galvanized smooth wire.

SUBSECTION CATCH BASINS, HEADWALLS, AND ARMORING

5-25 CATCH BASINS

Catch basins shall be constructed to resist erosion. Approximate dimensions are 1-2 feet deep, 1-2 feet wide, and 2-4 feet long.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Headwalls shall be constructed in accordance with the Typical Cross Drain Culvert Installation Detail at all cross drain culverts that specify the placement of rock. Rock used for headwalls shall consist of oversize or quarry spall material. Rock shall be placed on shoulders, slopes, and around culvert inlets and outlets. Rock shall not restrict the flow of water into culvert inlets or catch basins. No end dumping of rock is allowed.

5-27 ARMORING FOR STREAM CROSSING CULVERTS

At the following culvert(s), rip rap shall be set in place immediately following construction of the embankment. Rock shall be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the Typical Type Ns Np Culvert Installation Detail as directed by the Contract Administrator. Rock shall not restrict the flow of water into culvert inlets or catch basins. Rock shall be set in place by machine. Placement shall be

by zero-drop-height method only. No placement by end dumping or dropping of rock shall be allowed.

<u>Road</u>	<u>Stations</u>	<u>Rock Type</u>
CP-481F	19+50	10 yd ³ LL Riprap

SECTION 6 – ROCK AND SURFACING

SUBSECTION ROCK SOURCE

6-2 ROCK SOURCE ON STATE LAND

Rock used in accordance with the quantities on the Rock List may be obtained from the following source(s) on state land at no charge to the Purchaser. Use of material from any other source must have prior written approval from the Contract Administrator. If other operators are using, or desire to use, the rock source(s), a joint operating plan shall be developed. All parties shall follow this plan. The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the listed locations.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
Mary Clark Pit	T30N R12W Sec32	Pitrun, 1 ½" Crush, Heavy Riprap, LL Riprap

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the Rock List may be obtained from the following existing stockpile(s) on state land at no charge to the Purchaser. Purchaser shall remove no more than 820 cubic yards of 1 ½" minus crushed rock, 10,235 cubic yards of pitrun, 60 cubic yards of heavy riprap, and 70 cubic yards of LL riprap unless authorized by the Contract Administrator.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>	<u>Quantity (yd³)</u>
Mary Clark Pit	T30N R12W Sec32	Pitrun	10,305 yd ³
Mary Clark Pit	T30N R12W Sec32	1 ½" Crush	770 yd ³
Mary Clark Pit	T30N R12W Sec32	Heavy riprap	60 yd ³
Mary Clark Pit	T30N R12W Sec32	LL Riprap	70 yd ³

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the Rock List may be obtained from any commercial source at the Purchaser's expense. Rock sources will be subject to written approval by the Contract Administrator before their use.

<u>Rock Type</u>	<u>Quantity (yd³)</u>
Quarry Spalls	30 yd ³

SUBSECTION ROCK GRADATIONS

6-28 1 ¼-INCH MINUS CRUSHED ROCK

% Passing 1 ¼" square sieve	100%
% Passing 5/8" square sieve	50 - 80%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	3 - 18%

% Passing U.S. #200 sieve 5%

The portion of aggregate retained on the No. 4 sieve shall not contain more than 0.2% organic debris and trash. All percentages are by weight.

6-29 1 ½-INCH MINUS CRUSHED ROCK

% Passing 1 ½" square sieve 100%
% Passing 1" square sieve 50 - 85%
% Passing U.S. #4 sieve 30 - 50%
% Passing U.S. #40 sieve 16% maximum
% Passing U.S. #200 sieve 5% maximum

The portion of aggregate retained on the No. 4 sieve shall not contain more than 0.2% organic debris and trash. All percentages are by weight.

6-43 QUARRY SPALLS

% Passing 12" square sieve 100%
% Passing 8" square sieve 10% maximum

Rock shall not contain more than 5% vegetative debris or trash. All percentages are by weight.

6-50 LIGHT LOOSE RIP RAP

Rip rap shall consist of angular, hard, sound, and durable stone. It shall be free from segregation, seams, cracks, and other defects. Light loose rip rap shall be free of rock fines, soil, organic debris or other extraneous material, and shall meet the following requirements:

<u>At Least/Not More Than</u>	<u>Weight Range</u>	<u>Size Range</u>
20% / 90%	300 lbs. to 1 ton	12" - 36"

6-51 HEAVY LOOSE RIP RAP

Rip rap shall consist of angular, hard, sound, and durable stone. It shall be free from segregation, seams, cracks, and other defects. Heavy loose riprap shall be free of rock fines, soil, organic debris or other extraneous material, and shall meet the following requirements:

<u>At Least/Not More Than</u>	<u>Weight Range</u>	<u>Size Range</u>
70% / 100%	1 ton to 3 ton	36" - 54"

SUBSECTION ROCK MEASUREMENT

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths are defined as the compacted depth(s) using the compaction methods required in this Road Plan. Estimated quantities specified in the Rock List are estimated truck yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction.

SUBSECTION ROCK STOCKPILE

6-65 ROCK STOCKPILE LOCATION

The Purchaser may stockpile rock as listed below, and as directed by the Contract Administrator in accordance with the clause 6-67. *Post-haul rock is not included in the stockpile

<u>Rock Source</u>	<u>Rock Size</u>	<u>Quantity (c.y.)</u>	<u>Stockpile Location</u>
Mary Clark Pit	All	10,965	CP-480, Sta 7+70

6-67 ROCK STOCKPILE SPECIFICATIONS

Rock stockpiles listed in Clause 6-65 Rock Stockpile Location shall meet the following specifications:

- Before placing aggregates upon the stockpile site, the site shall be cleared of vegetation, trees, stumps, brush, rocks or other debris and the ground leveled to a smooth, firm, uniform surface.
- When completed, the stockpile shall be neat and regular in shape.
- The stockpile height shall be limited to a maximum of 30 feet.
- Stockpiles in excess of 500 cubic yards shall be built up in layers not more than 8 feet in depth. Stockpile layers shall be constructed by trucks, clamshells, or other methods approved, in writing, by the Contract Administrator.
- Each layer shall be completed over the entire area of the pile before depositing aggregates in the next layer. The aggregates shall not be dumped so that they run down and over the lower layers in the stockpile. The method of dropping from a bucket or spout in one location so as to form a cone shaped pile will not be permitted.
- Stockpiles of different types or sizes of aggregate shall be spaced far enough apart, or separated by suitable walls or partitions, to prevent the mixing of the aggregates.
- **Stockpile Use allowed only for length of Permit, expiration for October 31st, 2027.**

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

Subgrade drainage installation including grading and compaction, shall be completed and approved in writing by the Contract Administrator, before rock application.

6-71 ROCK APPLICATION

Rock shall be applied in accordance with the specifications and quantities shown on the Rock List. Rock shall be spread, shaped, and compacted full-width concurrent with rock hauling operations. Rock shall be compacted in accordance with Compaction List, in lifts not to exceed 6 inches.

6-72 ROCK APPLICATION AFTER HAULING

On the following road(s), upon completion of all hauling operations, Purchaser shall apply 1 1/2" minus crushed rock in accordance with the quantities shown on the Rock List.

<u>Road</u>	<u>Stations</u>	<u>Amount</u>
CP-480	0+00 – 11+00	20 yd ³
CP-481	0+00 – 85+75	150 yd ³
CP-481F	0+00 – 20+00	50 yd ³
CP-481F1	0+00 – 11+55	50 yd ³
CP-482	0+00 – 34+45	50 yd ³
CP-485	0+00 – 59+50	50 yd ³

6-73 ROCK FOR WIDENED PORTIONS

Turnarounds, turnouts, and areas with curve widening shall have rock applied to the same depth and specifications as the traveled way.

6-77 ROCK OVER GEOTEXTILE

On the following road(s), rock shall be applied over geotextiles in accordance with manufacturer's specifications. Mirafi HP270 or equivalent will be acceptable for this application.

<u>Road</u>	<u>Stations</u>
CP-481F1	11+55 - 24+85
11+15 Spur	0+00 – 11+15
CP-481I	2+40 – 11+75

6-78 ROCK FOR SPOT PATCHING

Rock for spot patching shall be applied before any grading is done and before any rock lifts are applied. Once applied, spot patches shall be graded into the existing running surface.

SECTION 7 – STRUCTURES

SUBSECTION STREAM CROSSING STRUCTURES GENERAL

7-5 STRUCTURE DEBRIS

The Purchaser shall ensure that debris from the installation or removal of structures does not enter any stream. Components removed from the existing structures(s) shall be placed at designated site(s), as directed in writing by the Contract Administrator. The Purchaser is responsible for maintaining a clean jobsite, with all materials stored away from any high water mark or other area presenting a risk of the materials entering a stream. Debris entering any stream shall be removed immediately and placed in the site(s) designated for stockpiling or disposal. The Purchaser is responsible for retrieving all material carried downstream from the jobsite by the stream current.

7-6 STREAM CROSSING INSTALLATION

Installation of stream crossing structures shall be in accordance with the manufacturer's requirements, and as directed by the District Engineer or their designee.

7-7 BANK PROTECTION FOR STREAM CROSSING STRUCTURES

Bank protection shall be designed and constructed to prevent the undermining of the structure.

SUBSECTION ACCEPTANCE

7-14 PRE-DESIGN WORK MEETING

Prior to any design work occurring a pre-work conference call shall occur to review the Road Plan requirements for the design and manufacture of the structure.

7-16 STRUCTURE ACCEPTANCE

The District Engineer or their designee will inspect the structure upon delivery. Acceptance will be issued if the structure meets all specifications and certifications.

7-18 INSTALLATION STAGE ACCEPTANCE

The Purchaser shall be responsible for ensuring that all materials and procedures used during construction comply with the design. Each stage of construction, according to the production schedule listed in Clause 7-17 Installation Production Schedule, shall be accepted in writing by the District Engineer, or their designee before starting construction on the next stage. The Purchaser shall notify the District Engineer or their designee in writing when each construction stage is complete.

7-20 REQUIRED NOTIFICATION AND APPROVAL

Purchaser shall provide the District engineer or their designee 5 day notification prior to beginning work on the LOG STRINGER BRIDGE. Purchaser shall receive approval for completed road work on the CP-481F1 roads from the District engineer or their designee prior to log haul on those roads.

SUBSECTION BRIDGE INSTALLATION

7-48 STATE SUPPLIED BRIDGE – MOBILIZATION

Bridge Specification: **LOG STRINGER BRIDGE**

Bridge stringers are available at no charge at the DNR sawmill at milepost 12 on the Hoh-Clearwater mainline and are ready to load for transportation to the jobsite. Purchaser is responsible for all bucking, notching, and trimming of logs to build the bridge and associated abutments. The Purchaser is required to submit a plan of operations to the Contract Administrator for written approval for loading, transport, and placement of the state provided bridge stringers. The plan shall include, but is not limited to, a description of the equipment and techniques to be used to lift and place the log stringers. Equipment used to lift the logs shall have sufficient capacity to lift them free and clear without dragging. Purchaser will be liable for any damage to the bridge stringers.

7-50 PERMANENT LOG BRIDGE CONSTRUCTION

Purchaser shall construct a bridge in accordance with this plan. Refer to LOG STRINGER BRIDGE design sheet for details. Cedar timber for the manufacture of stringers and cribbing is available from the DNR SAW MILL at milepost 12 on the Hoh-Clearwater Mainline.

Bridge delineators shall be installed and shall consist of four reflective striped delineators mounted on each bridge. Mounting may consist of post and bolt or other Owner approved

means of attachment. One delineator shall be installed at each end of each bridge guard rail or curb, and shall be installed with the reflector stripes angled downward and guiding traffic towards the center of the bridge.

7-51 EMBANKMENT RETENTION

Embankment retention methods shall be provided to ensure that bridge approach embankments are stable, contained, and do not encroach on the stream channel. If other embankment methods are proposed other than attached designs, drawings and calculations must be sent to the Olympic Region Office:

Attention: Bill Mehl
Coast District Engineer
411 Tillicum Lane
Forks, WA 98331
Bill.mehl@dnr.wa.gov

Bin wall or Hilfiker systems are two pre-approved designs. Other methods of embankment retention shall be submitted to the same location. Reports and plans will be approved or rejected within 10 working days of receipt.

7-52 TECHNICAL SPECIFICATIONS

Installation: Purchaser shall install bridges ensuring there is a full width, continuous deck with no gaps that allow water and sediment to drain from the bridge to the stream.

7-53 BRIDGE MATERIAL

All materials necessary for assembly excluding the log stringers are the responsibility of the purchaser.

Estimated material to assemble the bridge are listed below. Due to the nature of log stringer bridge construction, this is an estimated material list, actual construction may need more or less of these materials.

- a) 1000 ft of 3/4" EIPS galvanized wire rope.
- b) 600 galvanized 4" trap staples
- c) (50) 1/2" x 24" galvanized Lag Bolts
- d) 10 Purchaser Supplied treated 12"x12"x16'
- e) 5 Purchaser Supplied treated 4"x12"x10' (For spacer blocks)
- f) 4 bridge delineators (See spec sheet)
- g) Typar and chain link fencing to cover top of bridge deck

SUBSECTION GATE CLOSURE

7-70 GATE CLOSURE

On the following road(s), Purchaser shall keep gates closed and locked for nights and weekends except during periods of haul. All gates that remain open during haul shall be locked or securely fastened in the open position. All gates shall be closed at termination of use.

<u>Road</u>	<u>Station</u>
CP-480	0+30

SECTION 8 – EROSION CONTROL

8-2 PROTECTION FOR EXPOSED SOIL

Purchaser shall furnish and evenly spread a 3-inch layer of straw to all exposed soils at stream culvert installations. Soils shall not be allowed to sit exposed during any rain event.

SUBSECTION REVEGETATION

8-15 REVEGETATION

Purchaser shall grass seed and hay mulch all exposed soils including, but not limited to, stream culverts, waste areas, sidecast pull back areas, stream crossing removals, bridge installations, and other areas directed by the Contract Administrator. Revegetation of exposed soils shall be accomplished by manual dispersal of grass seed unless otherwise detailed in this Road Plan. Other methods of revegetation must be approved in writing by the Contract Administrator.

8-16 REVEGETATION SUPPLY

All seed, mulch, hay, matting, etc. will be provided by the Purchaser.

8-17 REVEGETATION TIMING

Purchaser shall perform revegetation during the first available opportunity. Soils shall not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator. Soils shall not be allowed to sit exposed during any rain event.

8-18 PROTECTION FOR SEED

Purchaser shall provide a protective cover over the revegetated area. The protective cover may consist of, but not be limited to, such items as dispersed hay mulch 3” thick or jute matting.

8-19 ASSURANCE FOR SEEDED AREA

The Purchaser shall be responsible to ensure a uniform and dense crop of grass. The Purchaser shall reapply the seed and/or mulch in areas that have been damaged through any cause, before approval from the Contract Administrator. The Purchaser shall restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the seed and/or mulch at no additional cost to the state.

SUBSECTION SEED, FERTILIZER, AND MULCH

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soils at a rate of 60 pounds per acre of exposed soil.

<u>Seed Species</u>	<u>% by Weight</u>
• Perennial Ryegrass	40.00
• Creeping Red Fescue	40.00
• White Dutch Clover	10.00
• Colonial Bentgrass	10.00

Grass seed shall meet the following specifications:

1. Weed seed may not exceed 0.5% by weight.
2. All seed species must have a minimum 90% germination rate, unless otherwise specified.
3. Seed must be certified.
4. Seed must be furnished in standard containers showing the following information:
 - a. Common name of seed
 - b. Net weight
 - c. Percent of purity
 - d. Percentage of germination
 - e. Percentage of weed seed and inert material

SECTION 9 – POST-HAUL ROAD WORK

SUBSECTION STRUCTURES

9-3 REMOVAL OF CULVERT MATERIAL FROM STATE LAND

Culvert material removed from roads becomes the property of the Purchaser and must be removed from state land.

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

Post-haul maintenance shall be performed in accordance with the Forest Access Road Maintenance Specifications and as specified below.

<u>Road</u>	<u>Stations</u>	<u>Additional Requirements</u>
All	All	Clean culverts, clean ditches, grade road shape and compact as directed by the Contract Administrator
CP-480	0+00 – 11+00	Apply post haul rock as per Clause 6-72.
CP-481	0+00 – 85+75	Apply post haul rock as per Clause 6-72.
CP-481F	0+00 – 20+00	Apply post haul rock as per Clause 6-72.
CP-481F1	0+00 – 11+55	Apply post haul rock as per Clause 6-72.
CP-482	0+00 – 34+45	Apply post haul rock as per Clause 6-72.
CP-485	0+00 – 59+50	Apply post haul rock as per Clause 6-72.

SUBSECTION POST-HAUL LANDING MAINTENANCE

9-10 LANDING DRAINAGE

On all roads, Purchaser shall provide for drainage of the landing surface as approved in writing by the Contract Administrator.

9-11 LANDING EMBANKMENT

On all roads, landing embankments shall be sloped to original construction specifications.

SECTION 10 MATERIALS
SUBSECTION GEOTEXTILES

10-2 GEOTEXTILE FOR SEPARATION

Geotextiles shall meet the following minimum requirements for strength and property qualities, and shall be designed by the manufacturer to be used for separation. Material shall be free of defects, cuts, and tears.

	<u>ASTM Test</u>	<u>Requirements</u>
Type	--	Woven or Non-woven
Apparent opening size	D 4751	No. 30 max
Water permittivity	D 4491	0.02 sec ⁻¹
Grab tensile strength	D 4632	160 lb
Grab tensile elongation	D 4632	= 50%
Puncture strength	D 6241	310 lb
Tear strength	D 4533	50 lb
Ultraviolet stability	D 4355	50% retained after 500 hours of exposure

10-6 GEOTEXTILE FOR TEMPORARY SILT FENCE

Geotextiles shall meet the following minimum requirements for strength and property qualities, and shall be designed by the manufacturer to be used for filtration. Woven slit-film geotextiles will not be allowed. Material shall be free of defects, cuts, and tears.

	<u>ASTM Test</u>	<u>Requirements</u>
Type	--	Unsupported between posts
Apparent opening size	D 4751	No. 30 max., No. 100 min.
Water permittivity	D 4491	0.02 sec ⁻¹
Grab tensile strength	D 4632	180 lb in machine direction, 100lb in cross-machine direction
Grab tensile elongation	D 4632	30% max. at 180 lb or more
Ultraviolet stability	D 4355	70% retained after 500 hours of exposure

SUBSECTION CULVERTS

10-15 CORRUGATED STEEL CULVERT

Metallic coated steel culverts shall meet AASHTO M-36 (ASTM A-760) specifications. Culverts shall be aluminized (aluminum type 2 coated meeting AASHTO M-274).

10-16 CORRUGATED ALUMINUM CULVERT

Aluminum culverts shall meet AASHTO M-196 (ASTM A-745) specifications.

10-17 CORRUGATED PLASTIC CULVERT

Polyethylene culverts shall meet AASHTO M-294 specifications. Culverts shall be Type S – double walled with a corrugated exterior and smooth interior.

10-21 METAL BAND

Metal coupling and end bands shall meet the AASHTO specification designated for the culvert and shall have matching corrugations. On culverts 24 inches and smaller, bands shall have a minimum width of 12 inches. On culverts over 24 inches, bands shall have a minimum width of 24 inches.

10-22 PLASTIC BAND

Plastic coupling and end bands shall meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer shall be used. Couplings shall be split coupling band. Split coupling bands shall have a minimum of four corrugations, two on each side of the pipe joint.

10-23 RUBBER CULVERT GASKETS

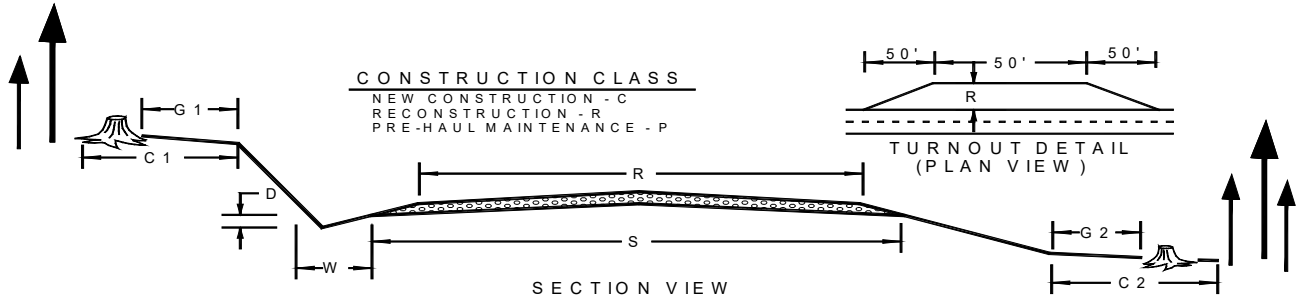
Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands.

10-24 GAGE AND CORRUGATION

Metal culverts shall conform to the following specifications for gage and corrugation as a function of diameter.

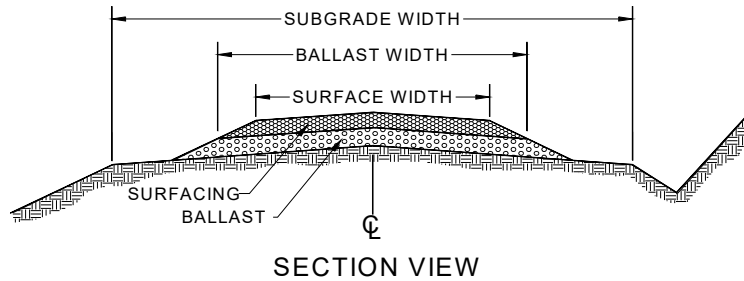
<u>Diameter</u>	<u>Gage</u>	<u>Corrugation</u>
18"	16 (0.064")	2 2/3" X 1/2"
24" to 48"	14 (0.079")	2 2/3" X 1/2"
54"	12	5" X 1"
60" +	10	5" X 1"

TYPICAL SECTION SHEET



ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS		SUBGRADE WIDTH (S)	ROAD WIDTH (R)	CROWN AT CL (in)	DITCH WIDTH (W)	DITCH DEPTH (D)	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (C1)	ROAD FILL CLEARING (C2)
CP-480	0+00	11+00	P			14'	3"	4'	2'				
CP-481	0+00	85+75	P			14'	3"	4'	2'				
CP-481F	0+00	20+00	P			12'	3"	3'	1'				
CP-481F	20+00	29+40	C		17'	12'	3"	3'	1'	5'	5'	10'	5'
CP-481F1	0+00	11+55	P			12'	3"	3'	1'				
CP-481F1	11+55	24+85	C		17'	12'	3"	3'	1'	5'	5'	10'	5'
11+15 Spur	0+00	11+15	C		17'	12'	3"	3'	1'	5'	5'	10'	5'
CP-481I	0+00	2+40	P			12'	3"	3'	1'				
CP-481I	2+40	11+75	C		17'	12'	3"	3'	1'	5'	5'	10'	5'
CP-482	0+00	34+45	P			12'	3"	3'	1'				
CP-485	0+00	76+50	P			12'	3"	3'	1'				
CP-485.4	0+00	15+60	P			12'	3"	3'	1'				
CP-485.5	0+00	16+90	P			12'	3"	3'	1'				
CP-486	0+00	11+60	R		17'	12'	3"	3'	1'	5'	5'	10'	5'
CP-486.1	0+00	7+40	P			12'	3"	3'	1'				
CP-487	0+00	14+80	R		17'	12'	3"	3'	1'	5'	5'	10'	5'

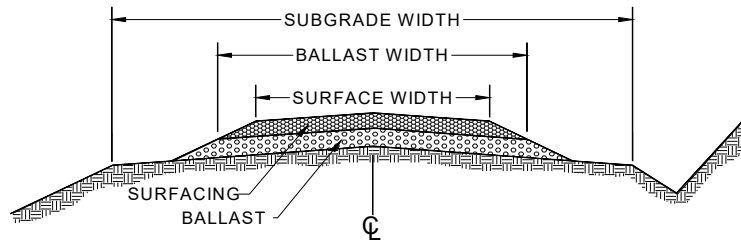
ROCK LIST SHEET



1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
2. All depths are compacted depths.
3. Rock slopes shall be 1½ (H) : 1 (V).
4. All rock sources are subject to approval by the Contract Administrator.
5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ¼" minus to 4" minus per Line 6. Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.
6. Rock sources= 1: Mary Clark Pitrun, 2: Mary Clark 1 ½" minus, 3: Mary Clark Heavy Riprap, 4: Mary Clark LL Riprap, 5: Commercial Quarry Spalls

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd³/sta)	Crushed Subtotal(yd³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd³)
CP-480															
Misc rock	0+00	11+00							2				30		
Post-haul	0+00	11+00							2				20		
CP-481															
Misc rock	0+00	61+98							2				150		
Spot Patch	51+13			1			60	60	2				20	4	20
Lift	61+98	85+75		1	12	6	35	830							
Post-haul	0+00	85+75							2				150		
CP-481I															
Lift	0+00	2+40		1	12	8	45	110							
Lift	2+40	11+75		1	12	12	70	655							
Culvert	3+05			1				20						4	1
Landing	9+28			1				30							
Landing	11+75			1				50							
CP-481F															
Lift	0+00	20+00		2	12	6	35	700							
Culvert	10+30			1				20						4	1
Totals:								2475					370		22

ROCK LIST SHEET CONTINUED

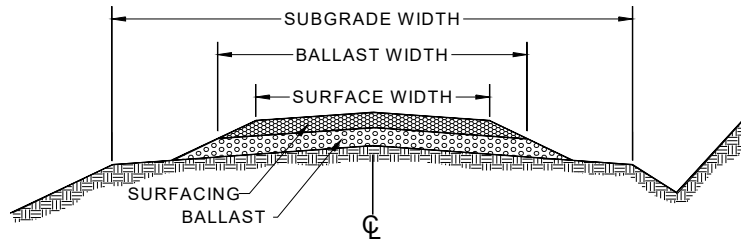


SECTION VIEW

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ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd³/sta)	Crushed Subtotal(yd³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd³)
CP-481F															
Culvert	13+84			1			20							4	1
Culvert	16+00			1			20							4	1
Culvert	19+50			1			100							3, 4	60, 30
Lift	20+00	29+40		1	12	8	45	420							
Culvert	27+41			1			20							4	1
Landing	29+40			1			50								
Post-haul	0+00	20+00							2				50		
CP-481F1															
Lift	0+00	11+55		1	12	6	35	410							
Bridge	3+75	4+05		1			200							5	30
Culvert	8+13			1			20							4	1
Culvert	10+97			1			20							4	1
Lift	11+55	24+85	17	1	12	12	70	930							
Culvert	15+80			1			20							4	1
Culvert	18+26			1			20							4	1
Landing	24+85			1			50								
Post-haul	0+00	11+55							2				50		
Totals:								2300					100		60,37,30

ROCK LIST SHEET CONTINUED

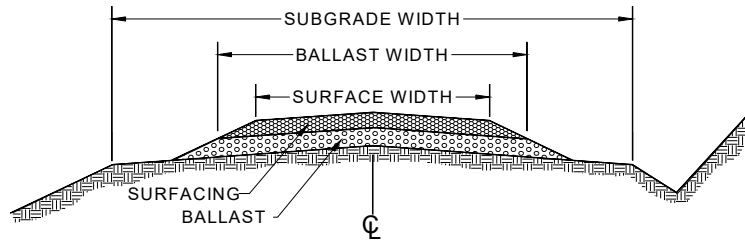


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ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd ³ /sta)	Pitrun SUBTOTAL(yd ³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd ³ /sta)	Crushed Subtotal(yd ³)	Oversize/ Rip Rap	Oversize/Rip Rap Quantity(yd ³)
11+15 Spur															
Lift	0+00	11+15	17	1	12	12	70	780							
Culvert	1+40			1				20						4	1
Turnaround	4+82			1				50							
CP-482															
Misc	0+00	34+45							2				100		
Post-haul	0+00	34+45							2				50		
CP-485															
Misc	0+00	23+40							2				50		
Misc	23+40	59+50							2				50		
Landing	44+80			1				20							
Lift	59+50	76+50		1	12	6	35	600							
Landing	69+30			1				30							
Landing	76+50			1				30							
Post-haul	0+00	59+50							2				50		
CP-485.4															
Lift	0+00	15+60		1	12	8	45	700							
Totals:								2230					300		1

ROCK LIST SHEET CONTINUED

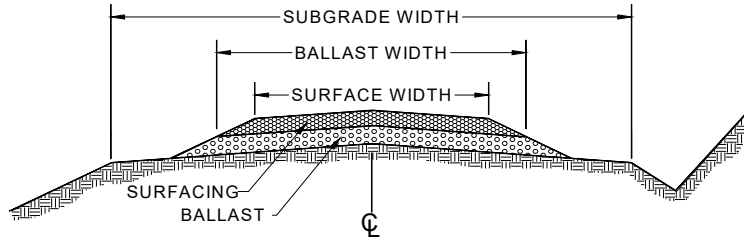


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ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd ³ /sta)	Pitrun SUBTOTAL(yd ³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity (yd ³ /sta)	Crushed Subtotal(yd ³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd ³)
CP-486															
Lift	0+00	11+60		1	12	12	70	820							
Culvert	3+82			1				20						4	1
Landing	5+93			1				30							
Culvert	7+16			1				20						4	1
CP-486.1															
Lift	0+00	7+40		1	12	8	45	330							
Landing	7+40			1				30							
Turnaround	7+40			1				50							
CP-485.5															
Lift	0+00	16+90		1	12	8	45	760							
Culvert	0+85			1				20						4	1
Culvert	1+90			1				20						4	1
Culvert	6+43			1				20						4	1
Totals:								2120						5	

ROCK LIST SHEET CONTINUED



SECTION VIEW

1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
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ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd³/sta)	Crushed Subtotal(yd³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd³)
CP-487															
Lift	0+00	14+80		1	12	12	70	1040							
Landing	2+72			1				30							
Culvert	4+40			1				20						4	1
Landing	10+80			1				30							
Culvert	13+00			1				20						4	1
Contingency Culverts				1				40						4	2
Totals:								1180							4

ROCK LIST SHEET GRAND TOTAL

Source	Quantity (yd ³)
1: Mary Clark Pit Pitrun	10,305
2: Mary Clark Pit Crush	770
3: Mary Clark Pit Heavy Riprap	60
4: Mary Clark Pit LL Riprap	70
5: Commercial Quarry Spalls	30

CULVERT LIST

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	RIP RAP - INLET (cy)	RIP RAP - OUTLET (cy)	BACKFILL MATERIAL	NOTES
CP-481	68+20	18	24					Culvert maint. Clean inlet and outlet
CP-481	83+78	18	35					Culvert maint. Clean inlet and outlet
CP-481I	3+05	18	30			1	PR	Culvert Install
CP-481F	10+30	18	30			1	PR	Culvert Install
CP-481F	13+84	18	30			1	PR	Culvert Install
CP-481F	16+67	24	40			1	PR	Culvert Install
CP-481F*	19+50	36	70			90	PR	Culvert Replacement (NS)
CP-481F	27+41	18	40			1	PR	Culvert Install
CP-481F1	8+13	18	30			1	PR	Culvert Install
CP-481F1	10+97	24	40			1	PR	Culvert Install
CP-481F1	15+80	18	30			1	PR	Culvert Install
CP-481F1	18+26	18	30			1	PR	Culvert Install
11+15 Spur	1+40	18	40			1	PR	Culvert Install
CP-485	36+69	18	34					Culvert maint. Clean inlet
CP-485	41+32	18	28					Culvert maint. Clean inlet
CP-485	47+49	18	34					Culvert maint. Clean inlet
CP-485	49+65	18	30					Culvert maint. Clean inlet
CP-485	50+83	18	34					Culvert maint. Clean inlet
CP-485	51+40	18	32	20				Culvert maint. Clean inlet
CP-485	55+00	24	40					Culvert maint. Clean inlet
CP-485	55+50	30	50					Culvert maint. Clean inlet
CP-485	57+50	30	60					Culvert maint. Clean inlet
CP-485	59+15	18	36					Culvert maint. Clean inlet
CP-485	65+00	18	30					Culvert maint. Clean inlet
CP-485.4	0+88	18	24					Culvert maint. Clean inlet and outlet
CP-485.4	6+50	18	26					Culvert maint. Clean inlet and outlet
CP-485.4	12+74	18	32					Culvert maint. Clean inlet and outlet

All rip rap shall be Oversize unless specified in the Rock List, or in the field.
All backfill shall be native material (NT) unless specified otherwise. CR= 1 ¼"- crushed rock,
PR = pit run. * = Typed Water.

CULVERT LIST Continued

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	RIP RAP - INLET (cy)	RIP RAP - OUTLET (cy)	BACKFILL MATERIAL	NOTES
CP-486	3+82	24	40			1	PR	Culvert Install
CP-486	7+16	18	30			1	PR	Culvert Install
CP-486.1	2+70	18	30					Culvert maint. Clean inlet and outlet
CP-486.1	6+12	18	32					Culvert maint. Clean inlet and outlet
CP-485.5	0+85	18	30			1	PR	Culvert Install
CP-485.5	1+90	18	30			1	PR	Culvert Install
CP-485.5	6+43	18	30			1	PR	Culvert Install
CP-487	4+40	24	60			1	PR	Culvert Install
CP-487	13+00	24	50			1	PR	Culvert Install
Contingency		18	30			2	PR	2 Contingency Culverts

All rip rap shall be Oversize unless specified in the Rock List, or in the field.
All backfill shall be native material (NT) unless specified otherwise. CR= 1 ¼"- crushed rock,
PR = pit run. * = Typed Water.

SUMMARY - Road Development Costs														
SALE NAME: Driftwood Delight	CONTRACT#: 30-106463	REGION: Olympic	DISTRICT: Olympic											
LEGAL DESCRIPTION: 0														
ROAD NAME:	CP 481F	CP 481F1	11-15 Spur	CP 481I	Stockpile	CP 480	CP 481	CP 481F	CP 481F1	CP 481I	CP 482	TOTAL	SHEET #2 4	
ROAD TYPE:	Construction	Construction	Construction	Construction	Construction	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	TOTAL		
NUMBER OF STATIONS:	9.40	13.30	11.60	14.80	0	11	86	20	12	2	34	214.25	365.05	
SIDESLOPE:	10%	25%	30%	30%	0	0	0	0	0	0	0	95%	60%	
CLEARING AND GRUBBING:	\$804	\$1,850	\$2,202	\$2,809	0	0	0	0	0	0	0	\$7,864	\$5,011	
ROAD BRUSHING:	\$0	\$0	\$0	\$0	0	0	\$2,332.40	\$544.00	\$314.16	\$65.28	\$937.04	\$4,193	\$3,166	
EXCAVATION AND FILL:	\$5,593	\$19,217	\$0	\$0	0	0	0	0	0	0	0	\$24,810	\$0	
ROAD GRADING:	\$0	\$0	\$0	\$0	0	0	\$1,778.46	\$414.80	\$239.55	\$43.78	\$714.43	\$3,197	\$6,870	
DITCH CLEANING/CONSTRUCTION:	\$0	\$0	\$452	\$577	0	0	\$2,632.50	\$780.00	\$450.45	0	0	\$4,893	\$6,213	
ROCK TOTALS (CU. YDS./ROCK COSTS):														
Ballast:	10,305	\$4,827	\$10,271	\$11,939	\$13,076	10,305	40	890	880	650	111	0	\$52,989	4634.50
Surface:	770	\$0	\$0	\$0	\$0	\$15,586.55	\$233.20	\$7,921.00	\$7,735.20	\$5,858.75	\$987.90	0	\$51,418.93	
Oversize:	160	\$1	\$2	\$2	\$2	\$5,784.00	\$212.40	\$1,470.50	\$0.00	\$0.00	\$0.00	999	\$10,100.20	CY
CULVERTS AND FLUMES:	\$1,040	\$1,560	\$1,980	\$3,301	\$0.00	2,394	15	183	841	296	0	0	\$66.27	CY
STRUCTURES:	\$0	\$15,000	\$0	\$0	\$4,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	0	0	\$69,000	\$0
MISC. EXPENSES:	\$0	\$20	\$1,129	\$1,440	0	0	\$1,313.29	\$726.65	\$1,124.16	\$233.59	0	0	\$5,987	\$6,633
OVERHEAD:	\$982	\$3,835	\$1,595	\$1,910	\$13,101.13	\$166.46	\$1,410.49	\$1,322.49	\$4,821.10	\$106.92	\$212.04	\$29,462	\$8,432	
TOTAL COSTS:	\$13,255	\$51,774	\$19,314	\$23,131	\$176,865.28	\$2,247.22	\$19,041.64	\$17,853.56	\$65,084.89	\$1,443.47	\$2,862.58	\$392,874	\$105,542	
COST PER STATION:	\$1,410	\$3,893	\$1,665	\$1,563	#DIV/0!	\$204.29	\$222.06	\$892.66	\$5,635.06	\$601.45	\$83.09	\$1,834	289,11632	
MOBILIZATION:			\$9,500											
ROAD DEACTIVATION AND ABANDONMENT COSTS:			\$0											
Prt Work			\$0											
NOTE: This appraisal has no allowance for profit and risk.														
Sheet 1 of 5														
Plans to be furnished by:														

Road Standard Const.	Reconst.	Prehaul	Posthaul	TOTAL (All Roads) =
Total Costs = 281,174	44,821	156,937	17,442	\$507,316
Total Sta. = 43	26	282	222	SALE VOLUME MBF = 4,899
Cost per Sta. = 6,509	1,698	565	78	TOTAL COST PER MBF = \$108.09
Complied by: Malia Griffithen				TOTAL COST PER STATION = \$876.78
				Date: 09/30/24

SUMMARY - Road Development Costs													
SALE NAME:	Driftwood Delight	CONTRACT#:	0	REGION:	Olympic	DISTRICT:	Olympic						
LEGAL DESCRIPTION:	0												
ROAD NAME:	CP-485	CP-485.4	CP-485.5	CP-486.1	CP-486	CP-487	CP-480	CP-481	CP-481F	CP-481F1	CP-482	CP-485	
ROAD TYPE:	Prehaul	Prehaul	Prehaul	Prehaul	Recon.	Recon.	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	
NUMBER OF STATIONS:	77	16	17	7	12	15	11	86	20	12	34	60	
SIDE SLOPE:	0	0	0	0	0	0	0	0	0	0	0	0	
CLEARING AND GRUBBING:	0	0	0	0	\$2,201.80	\$2,809.19	0	0	0	0	0	0	
ROAD BRUSHING:	\$2,080.80	\$424.32	\$459.68	\$201.28	0	0	0	0	0	0	0	0	
EXCAVATION AND FILL:	0	0	0	0	0	0	0	0	0	0	0	0	
ROAD GRADING:	\$1,586.61	\$323.54	\$350.51	0	0	0	\$228.14	\$1,778.46	\$414.80	\$239.55	\$714.49	\$1,234.03	
DITCH CLEANING/CONSTRUCTION:	\$2,070.90	\$1,216.80	\$1,318.20	\$577.20	\$452.40	\$577.20	0	0	0	0	0	0	
ROCK TOTALS (Cu Yds)/ROCK COSTS:													
Ballast:	680	700	820	410	885	1,140	0	0	0	0	0	0	CY
Surface:	\$7,119.60	\$6,580.00	\$8,391.68	\$4,313.20	\$11,938.65	\$13,075.80	0	0	0	0	0	0	CY
Over-size:	100	0	0	0	0	0	20	150	50	50	50	50	CY
Over-size:	1,022	0	0	0	0	0	\$394.20	\$3,678.00	\$1,222.00	\$1,230.00	\$1,224.00	\$1,340.00	CY
CULVERTS AND FLUMES:	0	0	3	0	2	2	0	0	0	0	0	0	
STRUCTURES:	0	0	0	0	0	0	0	0	0	0	0	0	
MISC. EXPENSES:	0	\$1,610.35	\$1,684.88	\$768.24	\$1,129.03	\$1,440.48	0	0	0	0	0	0	
OVERHEAD:	\$1,110.39	\$812.40	\$1,166.11	\$468.79	\$1,594.77	\$1,909.91	\$62.23	\$545.65	\$163.68	\$146.95	\$193.85	\$257.40	
TOTAL COSTS:	\$14,990.30	\$10,967.41	\$15,742.53	\$6,328.72	\$19,514.44	\$23,131.08	\$684.57	\$6,002.10	\$1,800.48	\$1,616.50	\$2,132.34	\$2,831.43	
COST PER STATION:	\$195.95	\$703.04	\$931.51	\$855.23	\$1,665.04	\$1,562.91	\$62.23	\$70.00	\$90.02	\$139.96	\$61.90	\$47.59	

FISH STREAM WORK PROVISIONS

1. TIMING LIMITATIONS: The fish culvert project may begin July 1 and shall be completed by September 30.
2. Work shall conform to plans and specifications in the road plan.
3. Prior to the commencement of in-stream work, the Purchaser shall isolate the work area in a manner that fish cannot enter the work area, capture and safely move fish and other fish life from the work area. The Purchaser shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water downstream of the work area.

TEMPORARY STREAM FLOW BYPASS

4. All in-stream work shall be conducted in the dry or in isolation from the stream flow by the installation of a bypass flume/pipe or by pumping the flow around the work area, back into the stream below the work area. Waste water pumped from within the work area shall terminate on the forest floor, sufficient distance from the stream to filter sediment prior to entering the stream.
5. The temporary bypass to divert flow around the work area shall be in place prior to initiation of other work in the wetted perimeter.
6. A sandbag revetment or similar device shall be installed at the bypass inlet to divert the entire flow through the bypass.
7. The bypass shall be of sufficient size to pass all flows and debris for the duration of the project.
8. If a pump is used for diverting water from the stream where fish are present, as per RCW 77.57.010 and 77.57.070, the pump intake shall be equipped with a fish guard to prevent passage of fish into the diversion pump. The pump intake shall be screened with 1/8 inch mesh to prevent fish from entering the pump. Velocity through the screened intake shall be less than 0.4 feet per second. Screens shall be maintained to prevent injury or entrapment of juvenile fish.

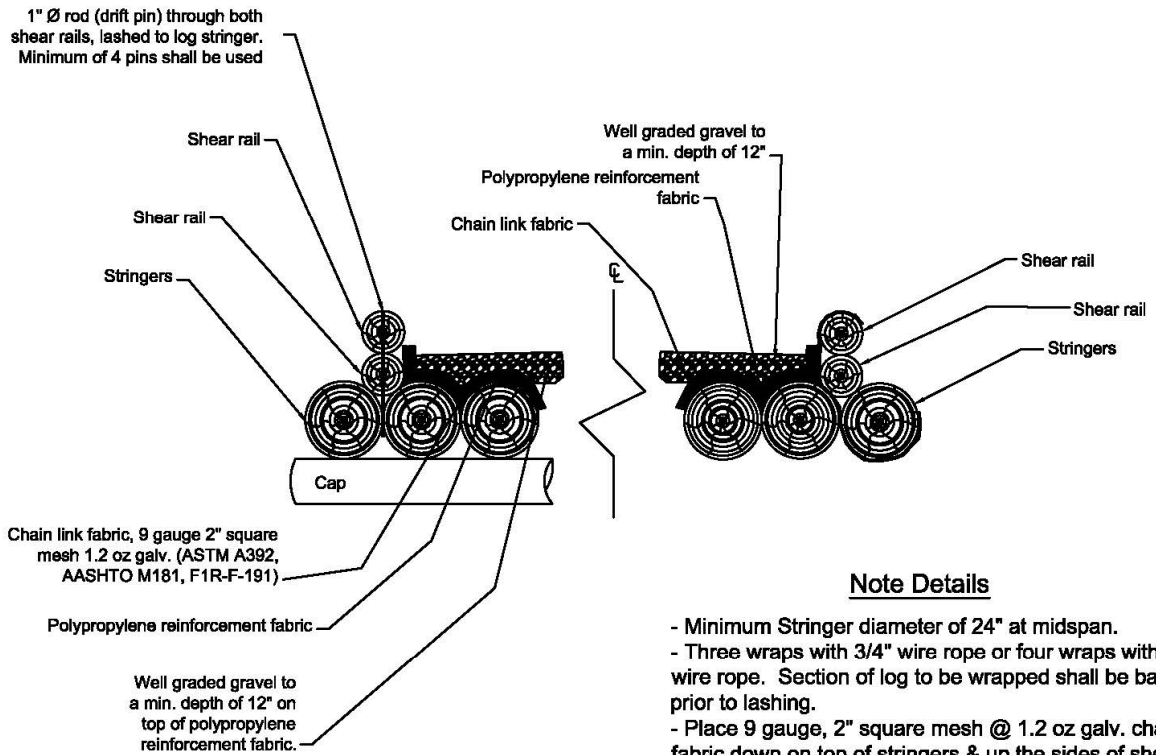
WATER QUALITY

9. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

COMPACTION LIST

Road	Stations	Type	Max Depth Per Lift (inches)	Equipment Type	Minimum Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
Pre-haul	All	Culvert Backfill	8"	Jumping Jack		3	
Pre-haul	All	Rock Lifts	6"	Vibratory Smooth Drum	6,000	3	3
Pre-haul	All	Pre-haul Surface		Vibratory Smooth Drum	6,000	3	3
Construction	All	Subgrade (Except Puncheon)	6"	Vibratory Smooth Drum	6,000	2	3
Construction	All	Culvert Backfill	8"	Jumping Jack		3	
Construction	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3
Reconstruction	All	Subgrade (Except Puncheon)	6"	Vibratory Smooth Drum	6,000	2	3
Reconstruction	All	Culvert Backfill	8"	Jumping Jack		3	
Reconstruction	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3
Post-haul Maintenance	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3

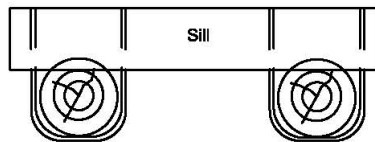
Bridge Surfacing & Shear Rail Details



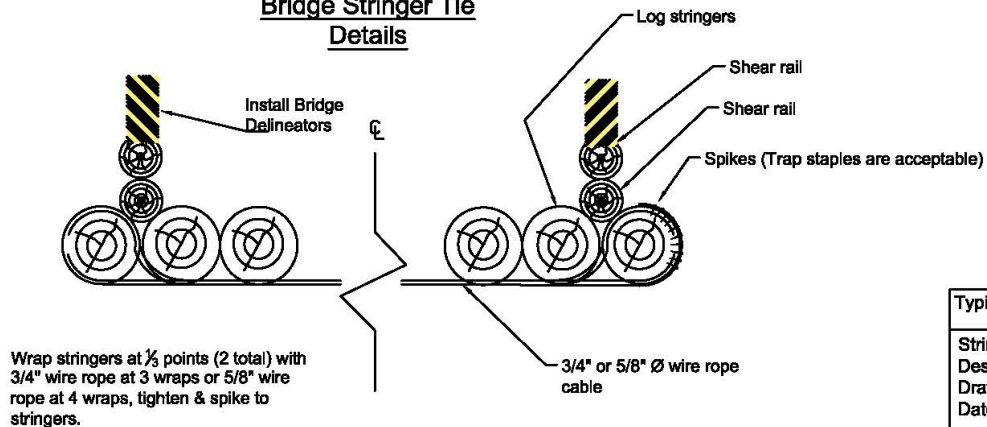
Note Details

- Minimum Stringer diameter of 24" at midspan.
- Three wraps with 3/4" wire rope or four wraps with 5/8" wire rope. Section of log to be wrapped shall be barked prior to lashing.
- Place 9 gauge, 2" square mesh @ 1.2 oz galv. chain link fabric down on top of stringers & up the sides of shear rails by min. 9" and over the ends to the top of the cap.
- After placement of chain link fabric, place polypropylene reinforcement fabric over the chain link fabric.
- Place well graded gravel over the polypropylene reinforcement fabric to a min. depth of 12". Finished surface elevation shall transition smoothly to road surface.
- Rail logs shall be selected and placed so that at least 15" are free and above the top of the gravel surfacing.

Lashing Detail



Bridge Stringer Tie Details



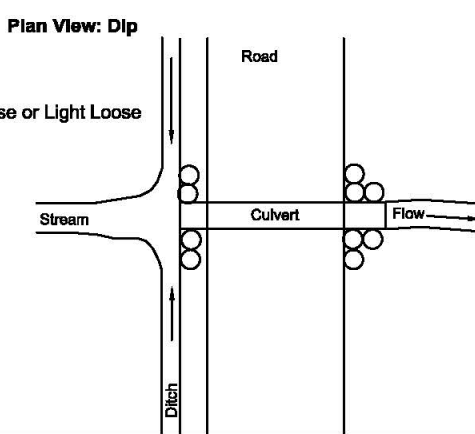
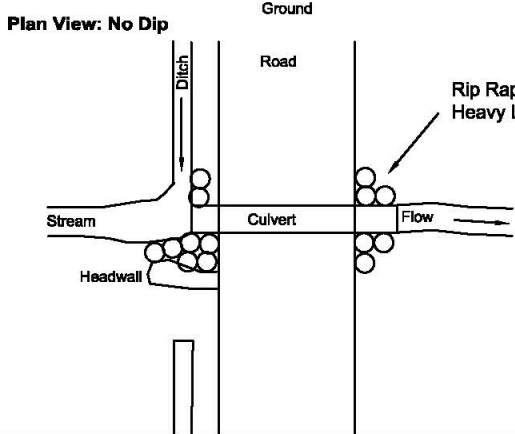
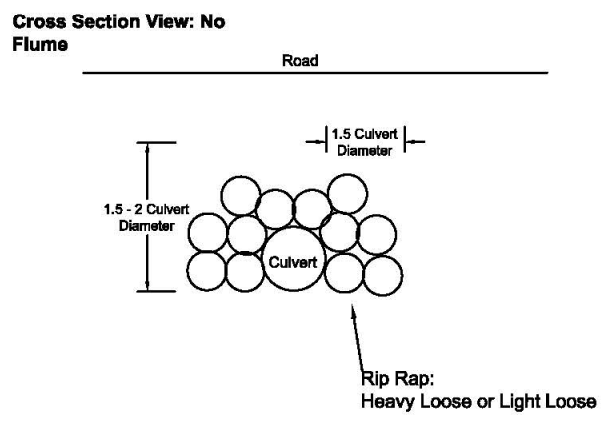
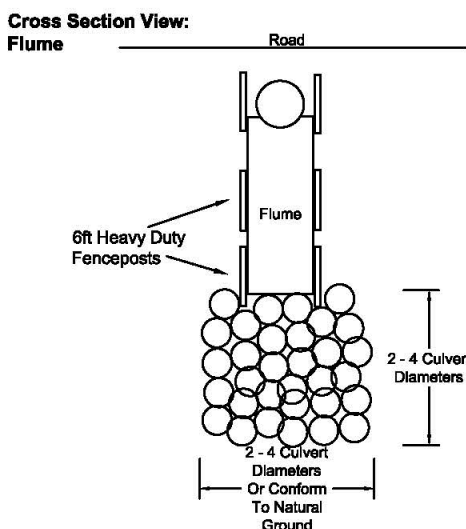
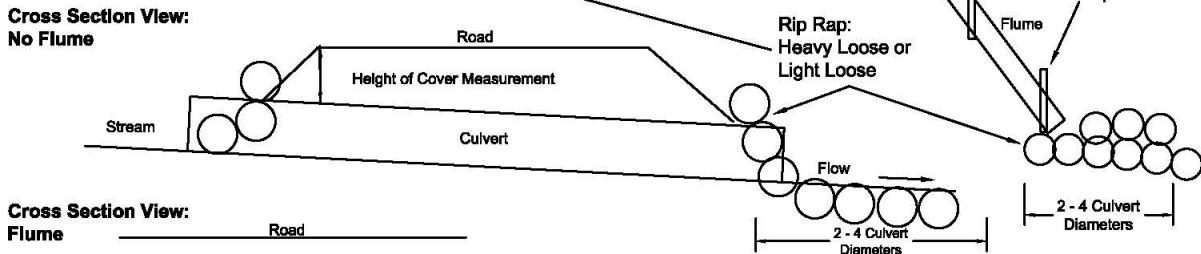
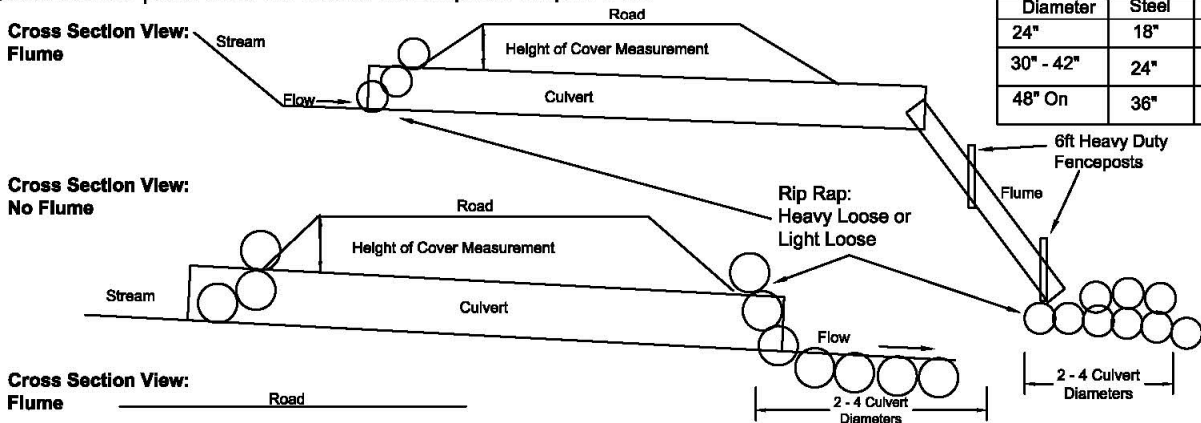
Typical Stringer Bridge

Stringer and Rail Details
Designed By: Jed Nowak
Drawn By: Jed Nowak
Date: 10/30/2018

Typical Type Ns, Np Culvert Installation Detail Sheet.

- Water shall be diverted away from the work site before any "in stream" work begins, and shall continue until culvert installation is complete.
- Culvert lay shall match stream gradient up to 5%.
- Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.
- Rip rap shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.
- Rip rap shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume rip rap shall be placed along the fill at the outlet, unless there is stream drop or it is called for in the Road Plan, at which point it will be installed as an energy dissipater at the end of the culvert as specified in this Detail. All rip rap distance to be determined by the Contract Administrator or the District Engineer.
- Backfill compaction shall be achieved using a jumping jack, walk behind vibratory roller, or plate compactor on lifts not to exceed 8in. 3 complete passes per lift is required for compaction. Backfill shall be placed and compacted evenly on both sides of the culvert. Care shall be taken to ensure adequate compaction of backfill material under the haunches of the pipe. Excavation trench width shall be at least culvert diameter plus 3 times the width of the compactor footprint used.

Culvert Minimum Cover		
Diameter	Steel	Plastic
24"	18"	24"
30" - 42"	24"	24"
48" On	36"	36"

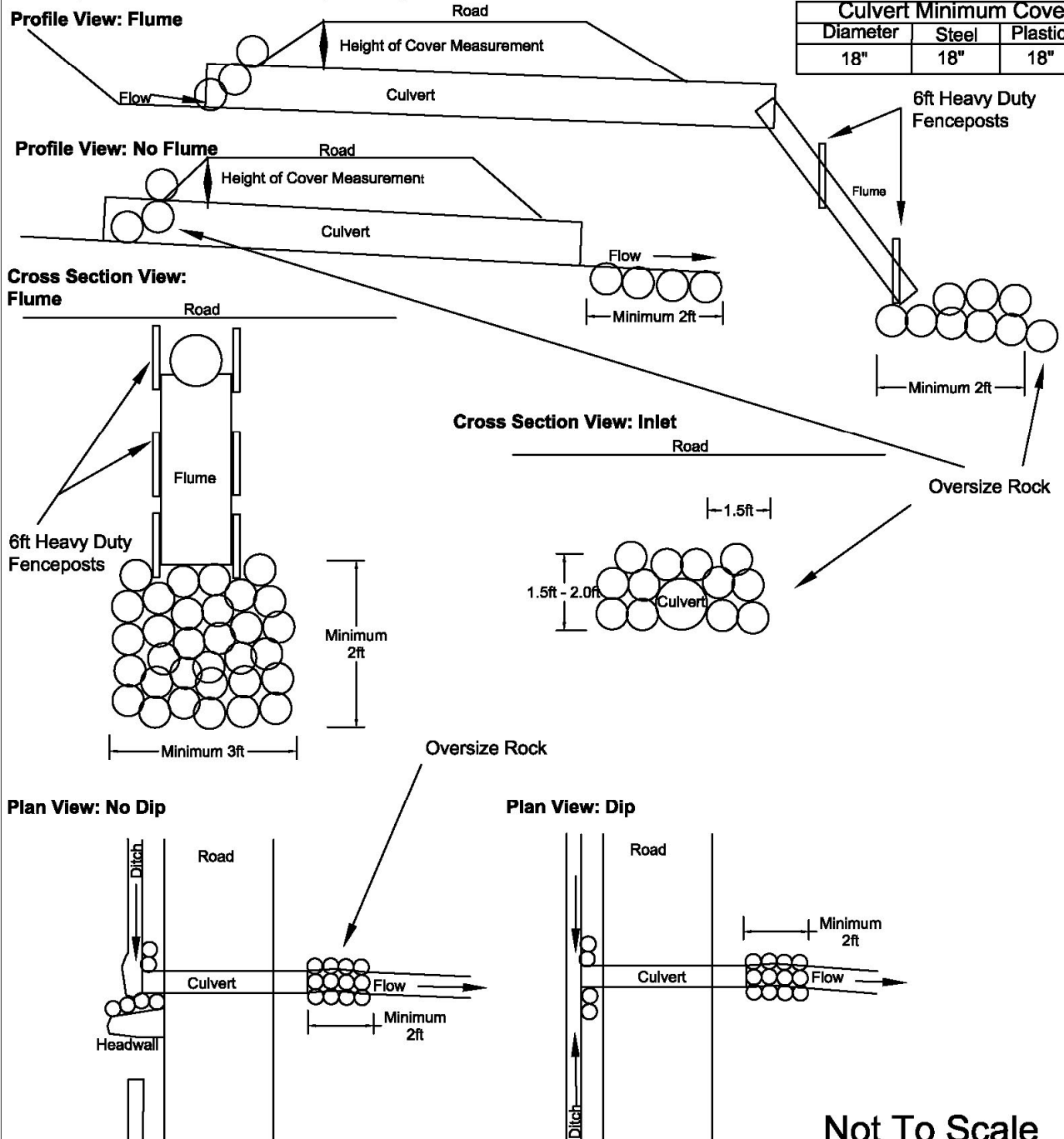


Not To Scale

Typical Cross Drain Culvert Installation Detail Sheet

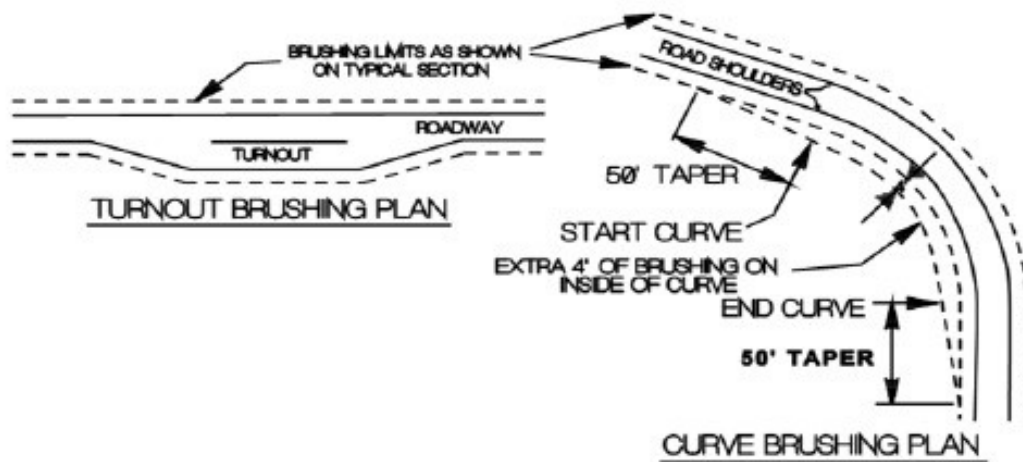
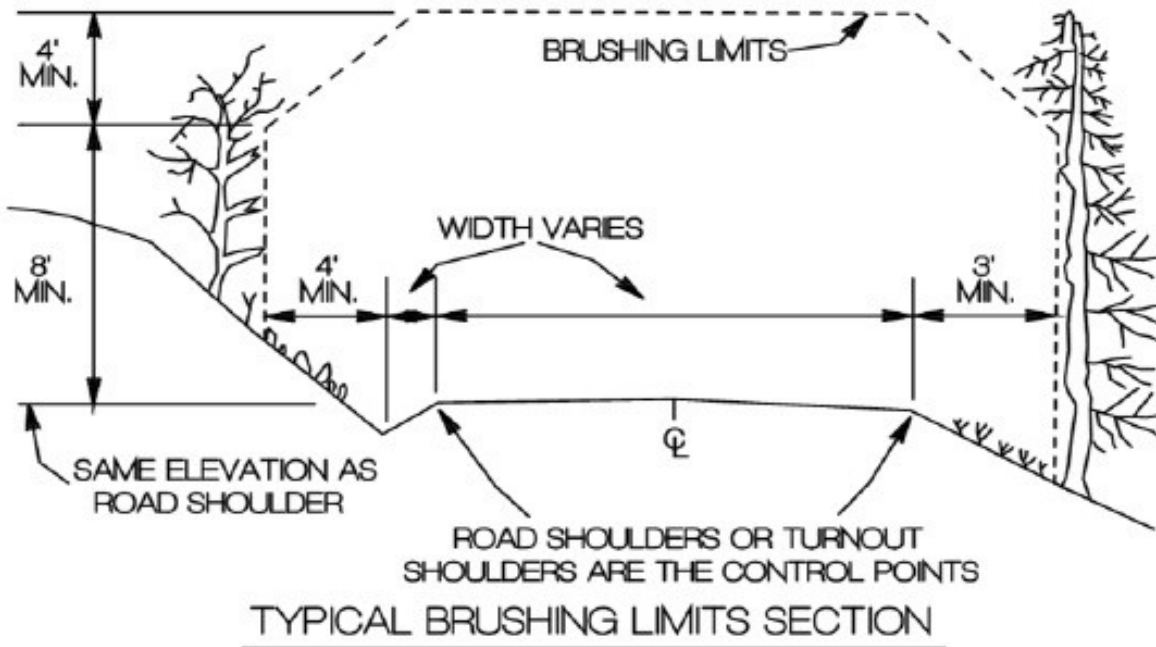
- Culvert lay shall not exceed 10%.
- Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.
- Oversize shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.
- Oversize shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume oversize shall be placed at the outlet as an energy dissipater as specified in this Detail. All oversize distance to be determined by the Contract Administrator.
- Backfill compaction for installations on existing roads shall be achieved using a jumping jack, or plate compactor on lifts not to exceed 8in. 3 complete passes per lift is required for compaction. Backfill shall be placed and compacted evenly on both sides of the culvert. Care shall be taken to ensure adequate compaction of backfill material under the haunches of the pipe. Excavation trench width shall be at least culvert diameter plus at least the width of the compactor footprint used..

Culvert Minimum Cover		
Diameter	Steel	Plastic
18"	18"	18"



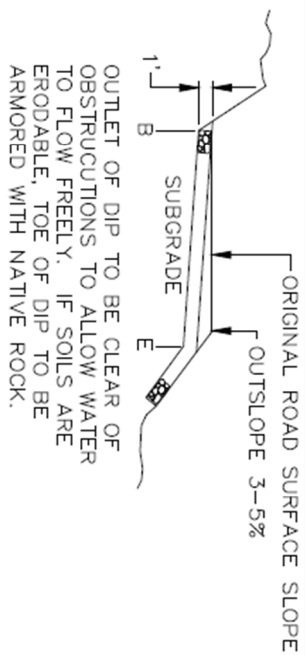
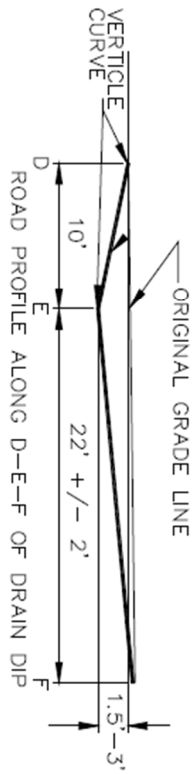
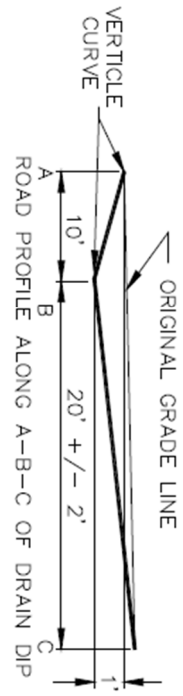
Not To Scale

BRUSHING DETAIL

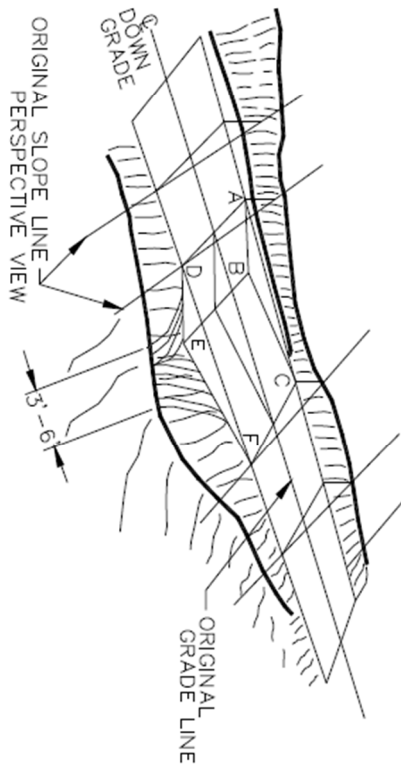


- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8' OF THE GROUND, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.
- 2) ALL BRUSH, TREES, LIMBS, ETC. SHALL BE REMOVED FROM THE ROAD SURFACE.
- 3) ALL BRUSH, TREES, LIMBS, ETC. THAT MAY RESTRICT THE FLOW OF WATER SHALL BE REMOVED FROM THE DITCH LINE.
- 4) ALL DEBRIS THAT MAY ROLL OR MIGRATE INTO THE DITCHLINE SHALL BE REMOVED.

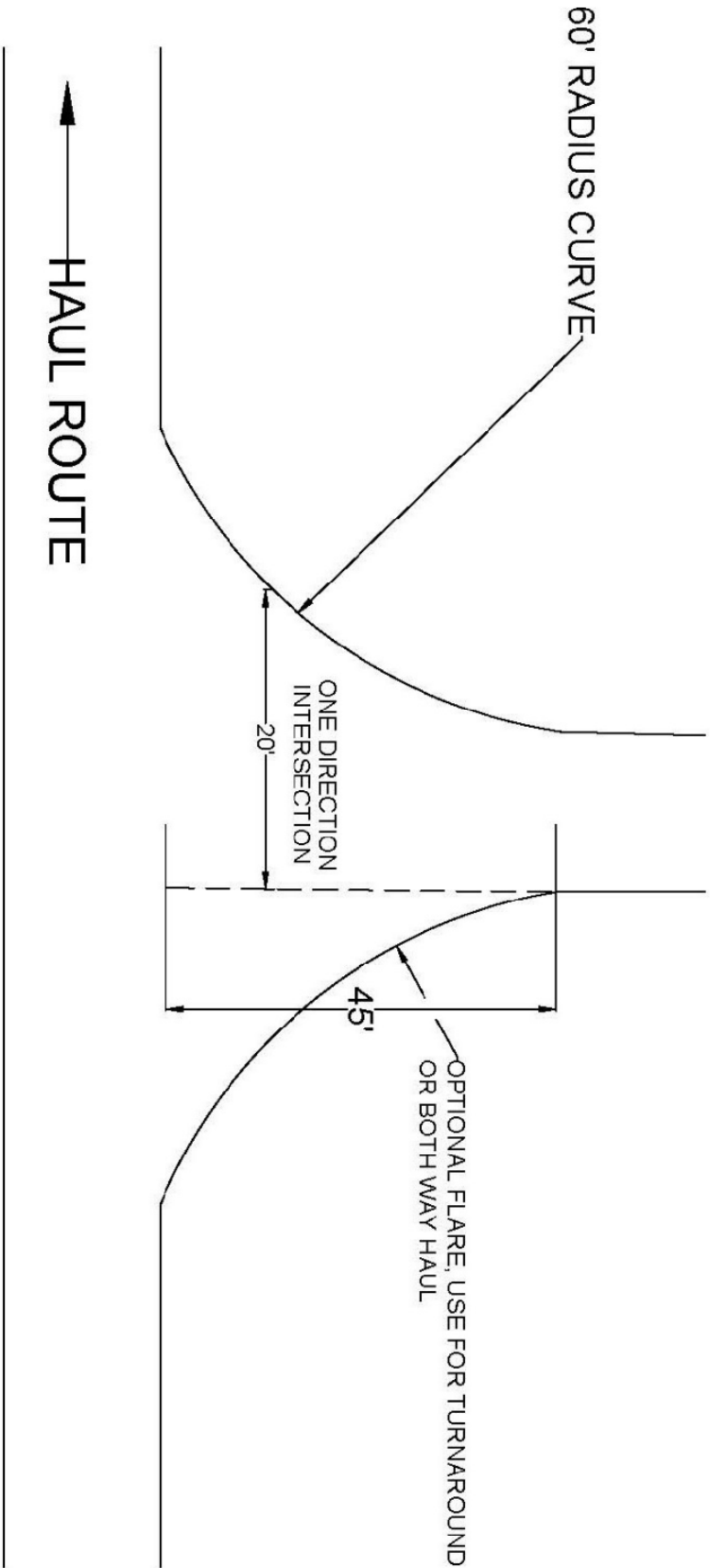
ROLLING DIP DETAIL



NOTE: PLAN OF DIP SHOWN IS FOR OUTSLOPED ROLLING DIP. DIPS MAY BE EITHER INSLOPED OR OUTSLOPED. WHEN INSLOPED, DIPS SHALL DRAIN FREELY INTO DITCHES OR CULVERT INLETS, WHEN OUTSLOPED, THEY SHALL DRAIN FREELY ONTO NATURAL GROUND. WHERE SOILS ARE ERODABLE, OUTLET SHALL BE ARMORED WITH NATIVE ROCK. THE MINIMUM CROSS GRADE FROM "B" TO "E" IS 4% GREATER THAN THE ROAD SURFACE SLOPE. SKEW LINE B-E TO FIT LOW POINT IN DRAW, IF LOCATED IN NATURAL DRAIN.

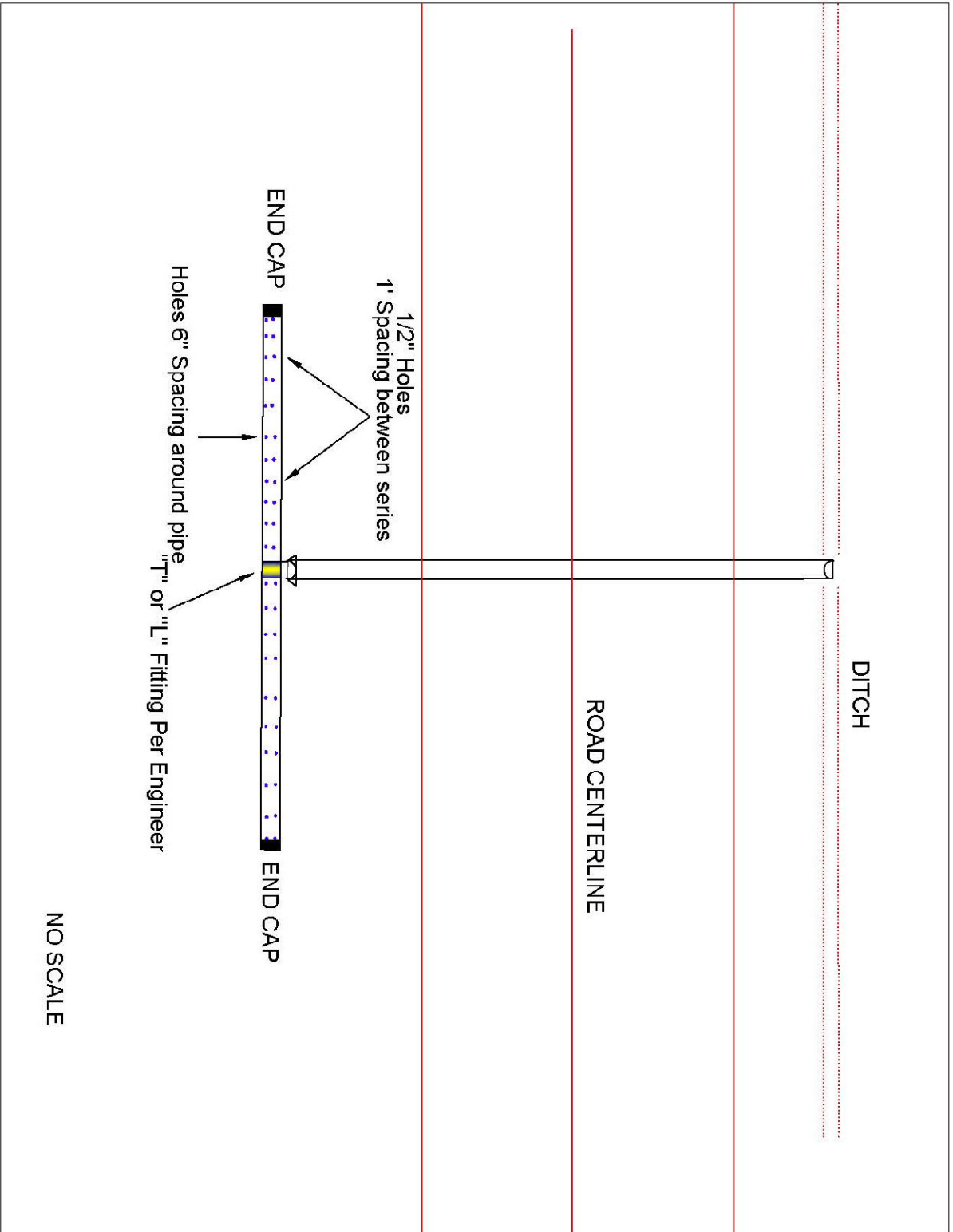


TYPICAL INTERSECTION



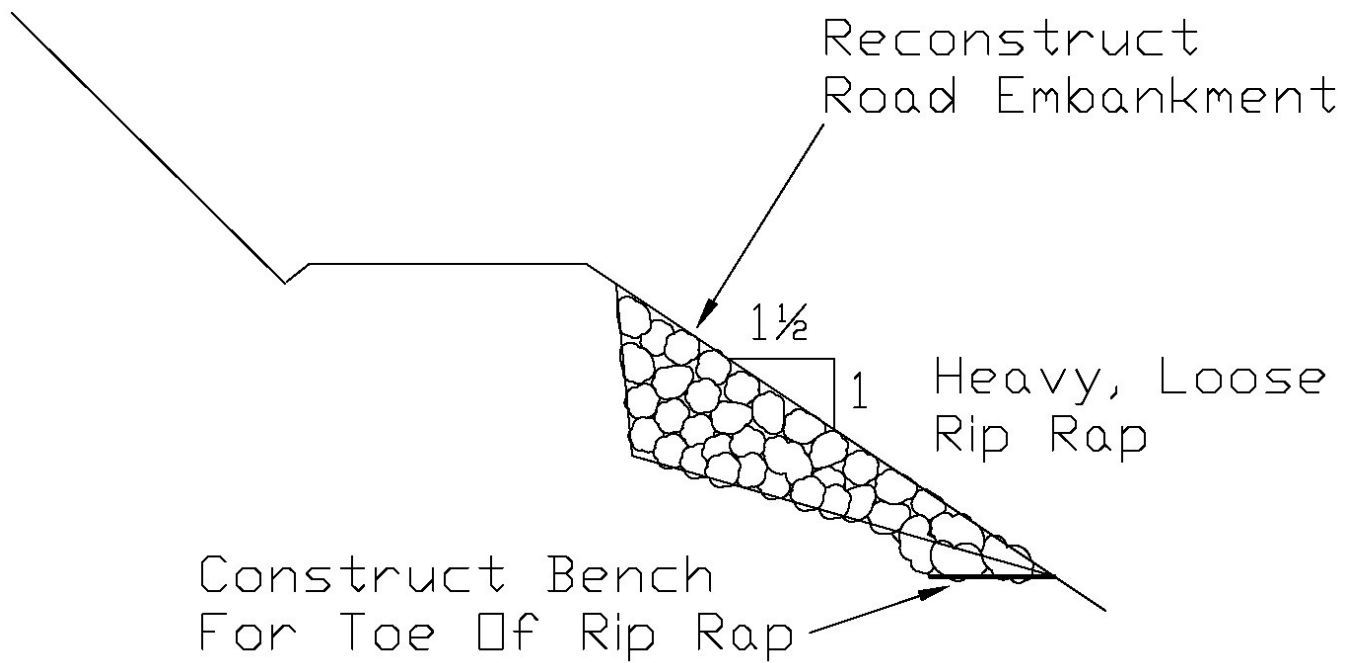
NOT TO SCALE

TYPICAL PERFORATED PIPE INSTALLATION



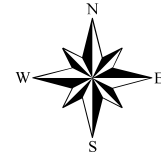
Typical Embankment Key Detail

Except where designed otherwise, road reconstruction with rip rap keyed toe and embankment.

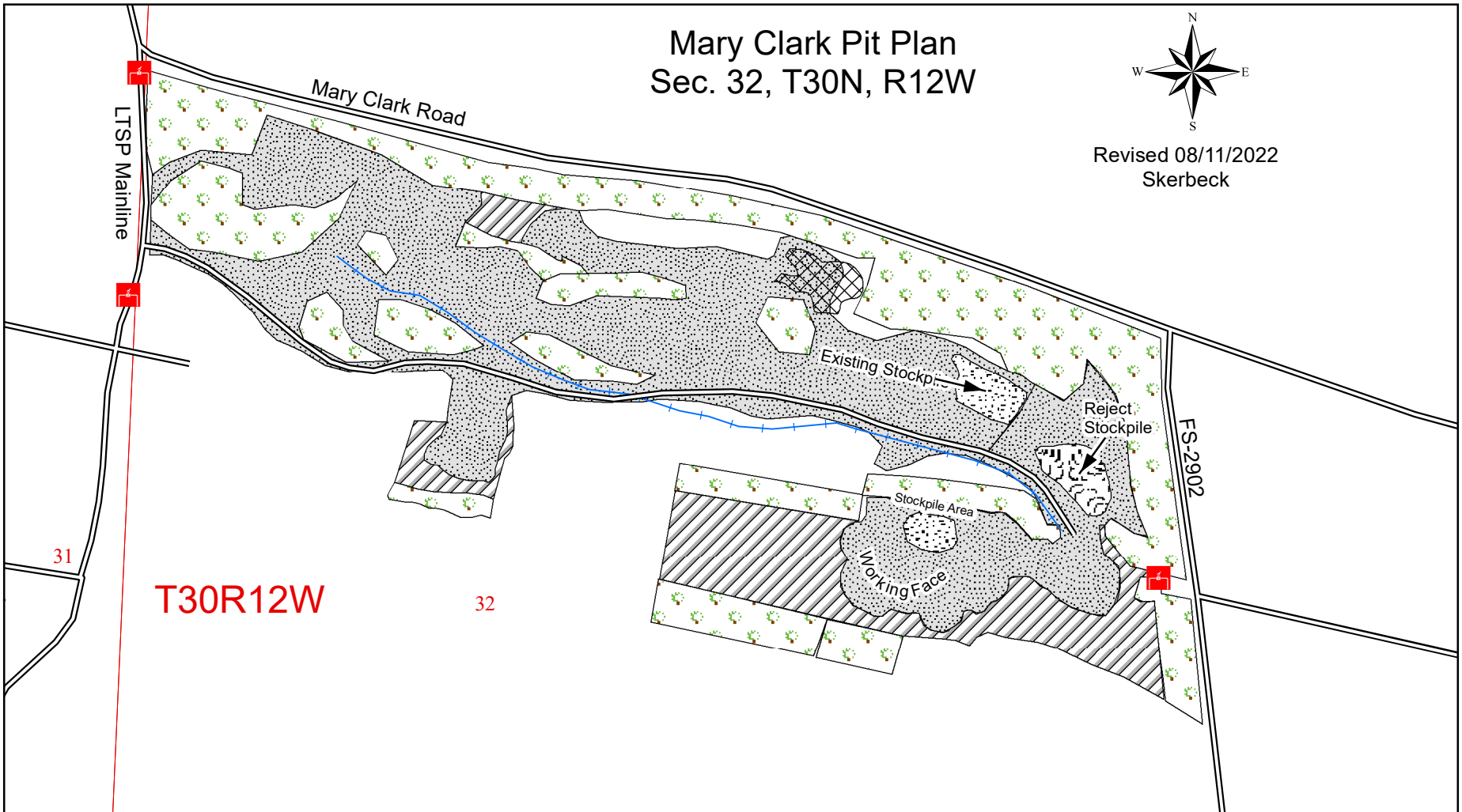


Mary Clark Pit Plan

Sec. 32, T30N, R12W



Revised 08/11/2022
Skerbeck



Legend

	Existing Roads
	Gate
	Drainage Ditch
	Pit Floor
	Existing Overburden-Waste
	1 1/2" Minus Stockpiles
	Existing Stripped Area

Pit Development Plan:

1. Areas to be developed as directed by the Contract Administrator.
2. Working face height shall not exceed 15 feet.
3. Suitable drainage shall be maintained at all times.

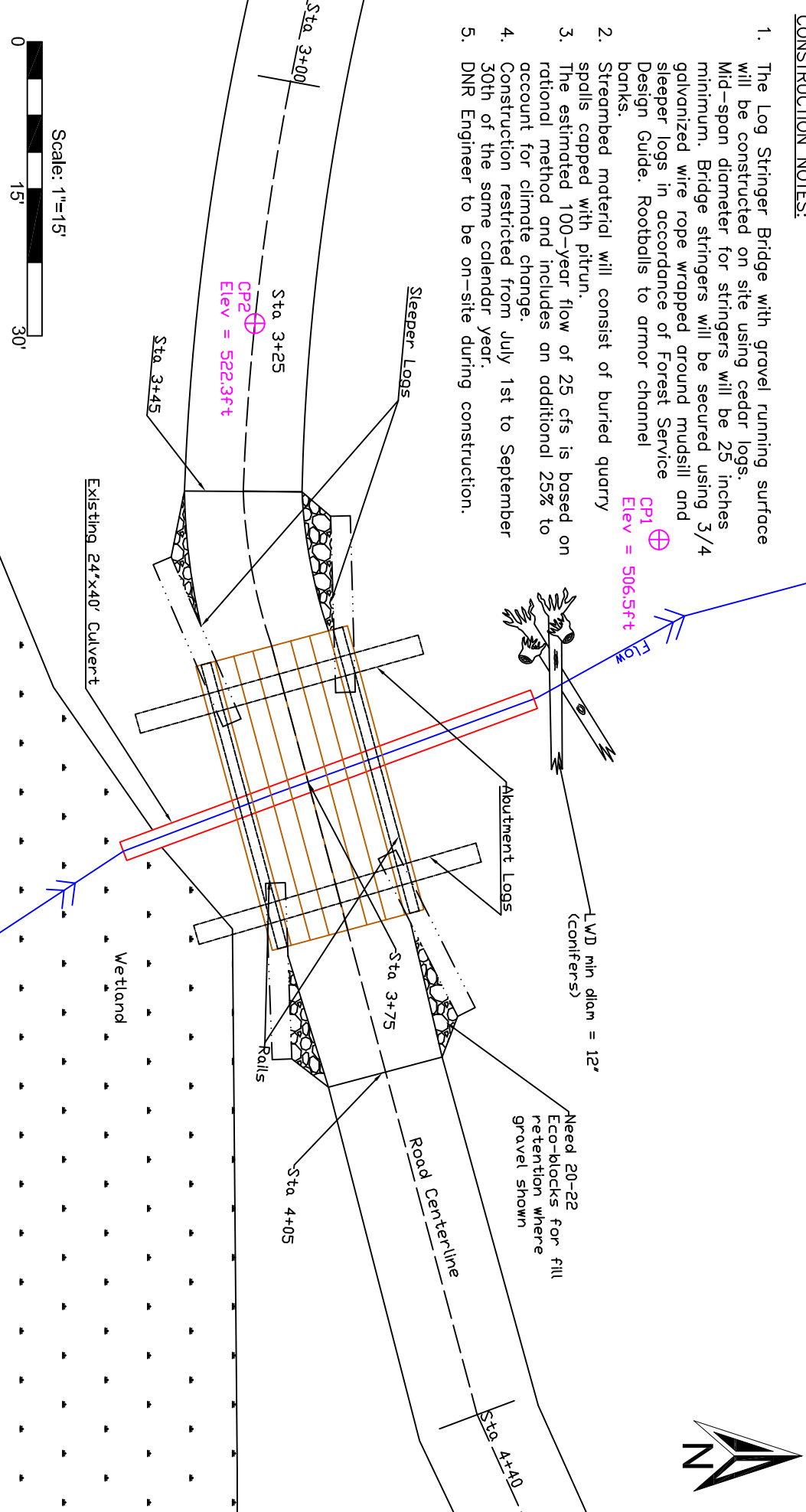
1:4800 (1" = 400')



Driftwood Delight CP-481F1 Log Stringer Bridge Sta 3+75 Plan View

CONSTRUCTION NOTES:

1. The Log Stringer Bridge with gravel running surface will be constructed on site using cedar logs. Mid-span diameter for stringers will be 25 inches minimum. Bridge stringers will be secured using 3/4 galvanized wire rope wrapped around mudsill and sleeper logs in accordance of Forest Service Design Guide. Rootballs to armor channel banks.
2. Streambed material will consist of buried quarry spalls capped with pitrun.
3. The estimated 100-year flow of 25 cfs is based on rational method and includes an additional 25% to account for climate change.
4. Construction restricted from July 1st to September 30th of the same calendar year.
5. DNR Engineer to be on-site during construction.



Location:	124.3135104W, 481293482N
T32R13W5E25	

General Notes Addition	06-27-24 MKG
Avg Bankfull width = 5.3	
Design Bankfull width = 7.2	

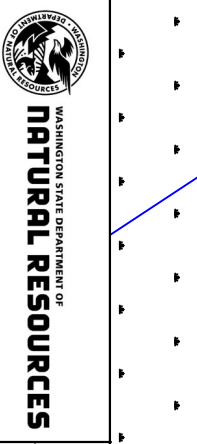
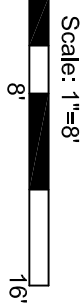
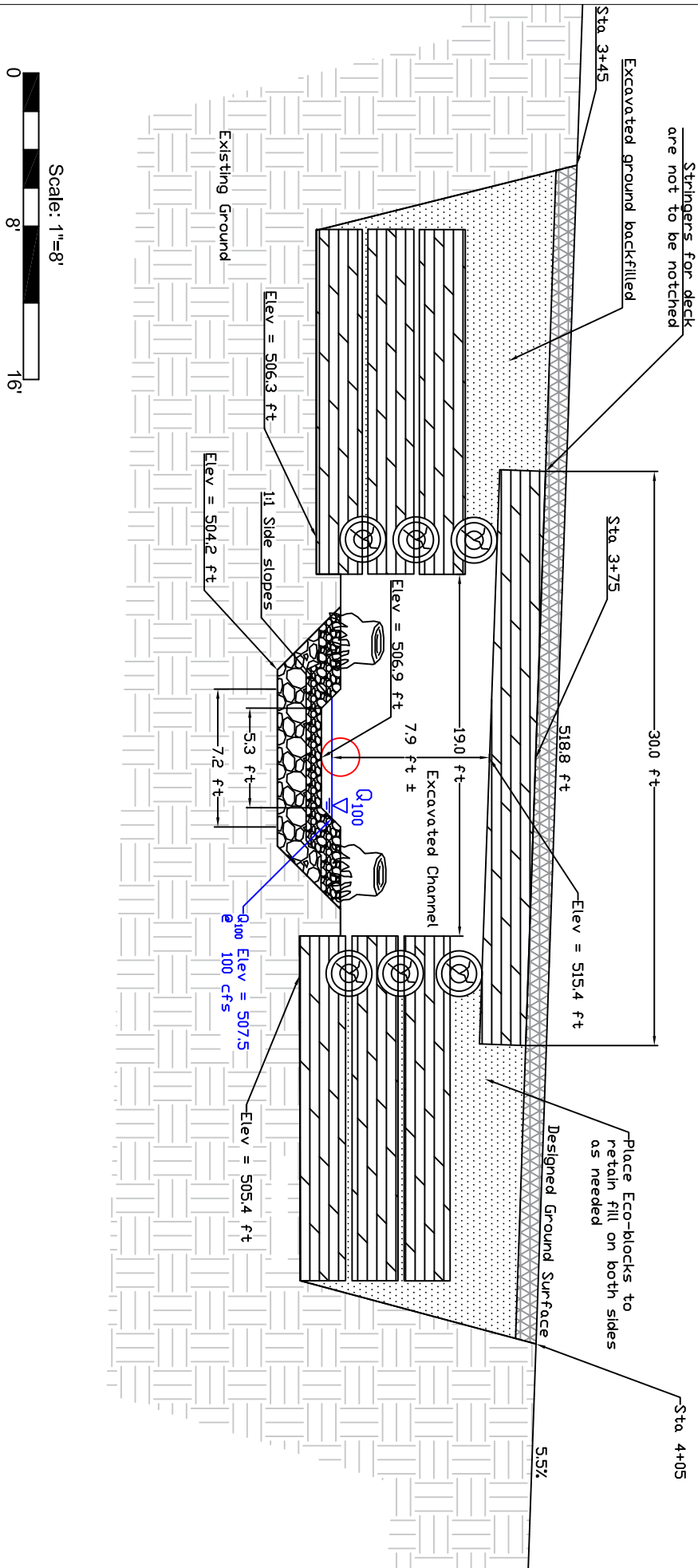


FIGURE 1 OF 4

Driftwood Delight CP-481F1 Log Stringer Bridge Sta 3+75 Cross-Section View

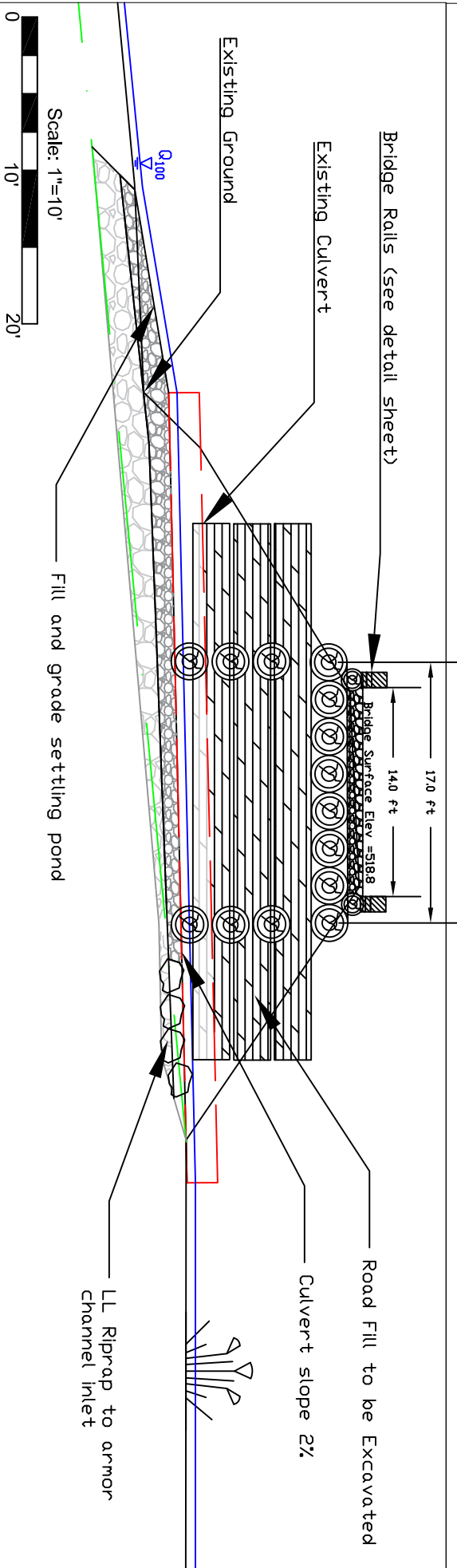
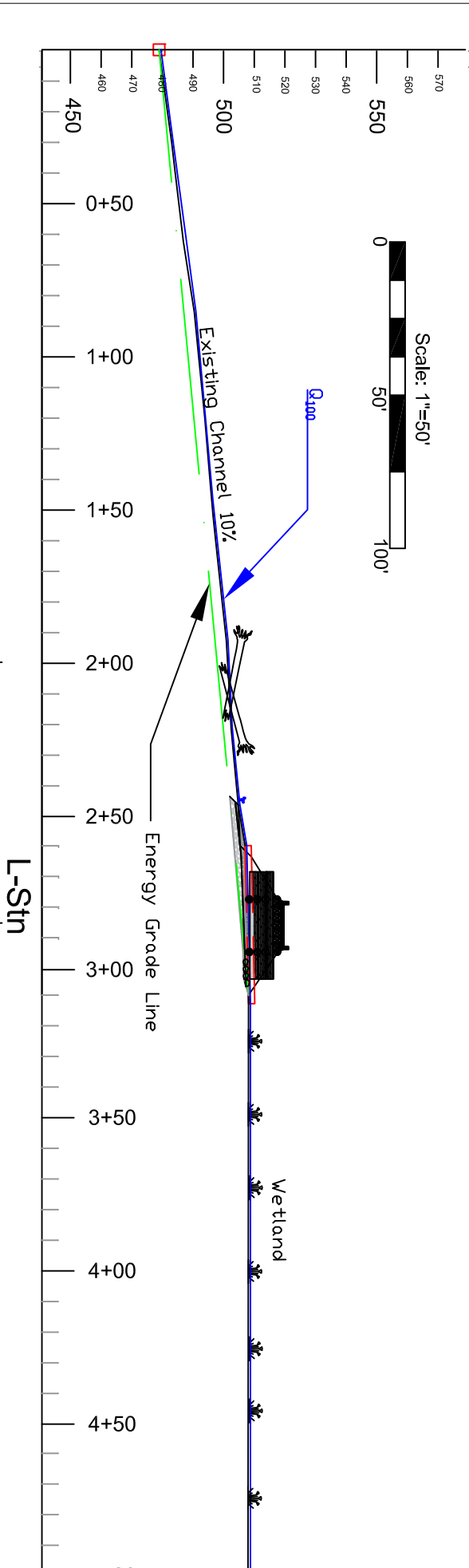
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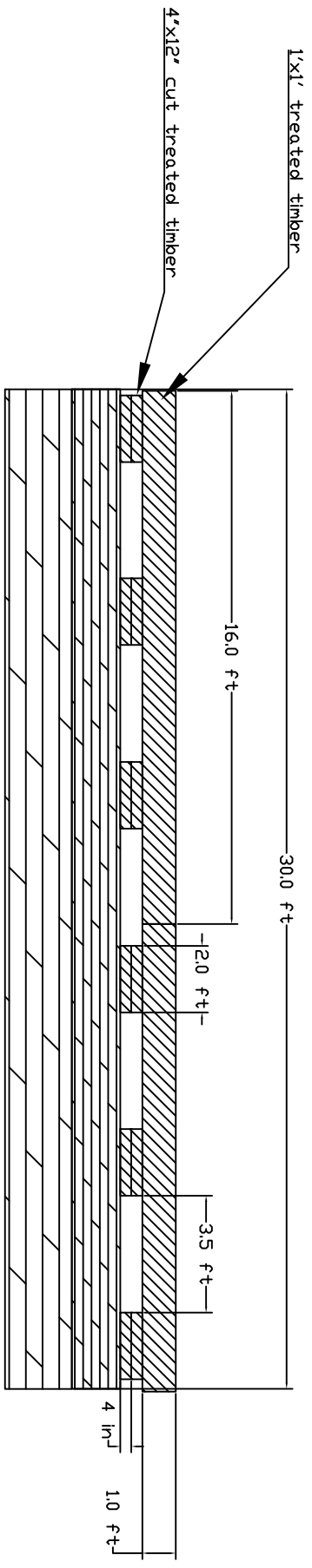
Location:	General Notes Addition	06-27-24 MKG	<p>WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES</p>	<p>FIGURE 2 OF 4</p>
124.3135104/V, 481293482N	AVG Bankfull width = 5.3			
T32R131V5Sec25	Design Bankfull width = 7.2			

Driftwood Delight CP-481F1 Log Stringer Bridge Sta 3+75 Profile View

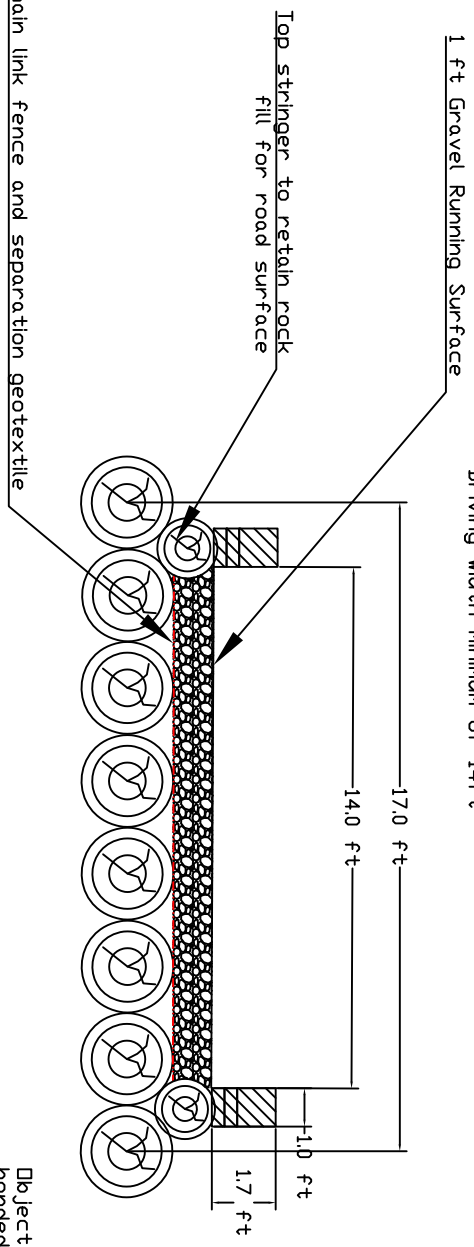


Location: T24.3135104/W, 481E293482N T32R13W/S6E25	General Notes Addition	06-27-24 MKG	<p>WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES</p>	<p>FIGURE 3 OF 4</p>
<p>Scale: 1"=10'</p> <p>0 10' 20'</p>				

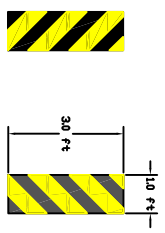
Driftwood Delight CP-481F1 Log Stringer Bridge Sta 3+75 Bridge Rail Detail



*Rails will be joined together with 16' spikes
*Connections will be pre-drilled before driving spikes
Driving width minimum of 14ft



TYPICAL DELINEATORS



Object markers type 3 shall be 12'x36' with reflective strip bonded to 14 gauge aluminum sheet. Reflective strips shall be 3M Engineer Grade Reflective Sheeting DM-3R or Equal

Scale: 1"=5'



Location: 124.3135104M, 481293482N T3BR13VSec25	General Notes Addition 06-27-24 MKG
---	--



FIGURE 4 OF 4

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Cuts and Fills

- Maintain slope lines to a stable gradient compatible with the cut slope/fill slope ratios. Remove slides from ditches and the roadway. Repair fill-failures in accordance with Clause 4-6 Embankment Slope Ratio, and with material approved by the Contract Administrator. Remove overhanging material from the top of cut slopes.
- Waste material from slides or other sources shall be placed and compacted in stable locations identified in the road plan or approved by the Contract Administrator, so that sediment will not deliver to any streams or wetlands.
- Slide material and debris shall not be mixed into the road surface materials, unless approved by the Contract Administrator.

Surface

- Grade, shape, and compact the road surface, turnouts, and shoulders to the original shape on the Typical Section Sheet, to provide a smooth, rut-free traveled surface and maintain surface water runoff in an even, unconcentrated manner.
- Blading shall not undercut the backslope or cut into geotextile fabric on the road.
- If required by the Contract Administrator, water shall be applied as necessary to control dust and retain fine surface rock.
- Surface material shall not be bladed off the roadway. Replace surface material when lost or worn away, or as directed by the Contract Administrator.
- Remove shoulder berms, created by grading, to facilitate drainage, except as marked or directed by the Contract Administrator.
- For roads with geotextile fabric: spread surface aggregate to fill in soft spots and wheel ruts (barrel spread) to prevent damage to the geotextile fabric.

Drainage

- Prevent silt bearing road surface and ditch runoff from delivering sediment to any streams or wetlands.
- Maintain rolling dips and drivable waterbars as needed to keep them functioning as intended.
- Maintain culvert headwalls to a level slightly below the road shoulder with material that will resist erosion. This is to allow for culverts that are overtopped to keep the water in the ditchline.
- Maintain energy dissipaters at culvert outlets with non-erodible material or rock.
- Keep ditches, culverts, and other drainage structures clear of obstructions and functioning as intended.
- Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This shall be done even during periods of inactivity.

Preventative Maintenance

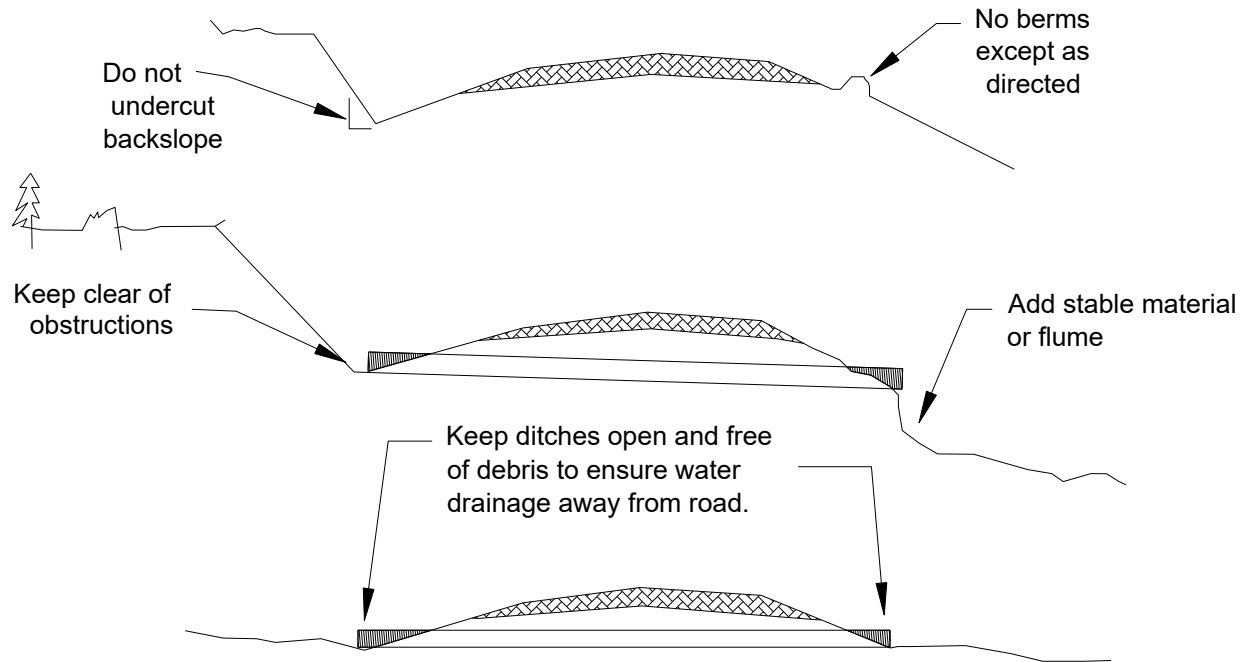
Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

At the conclusion of logging operations, ensure all conditions of these specifications have been met.

Debris

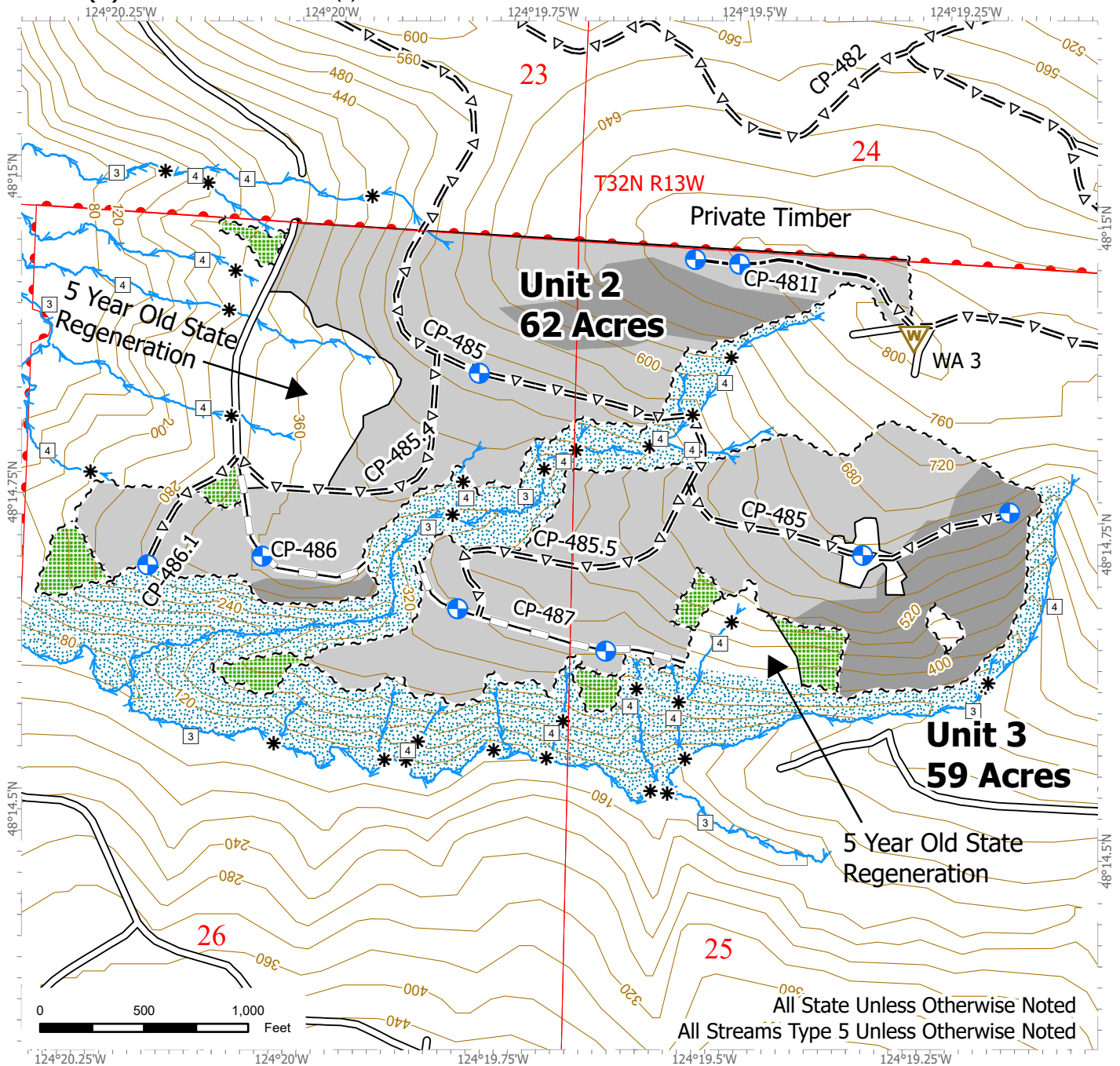
Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



LOGGING PLAN MAP

SALE NAME: DRIFTWOOD DELIGHT
AGREEMENT #: 30-106463
TOWNSHIP(S): T32R12W, T32R13W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 120'-800'



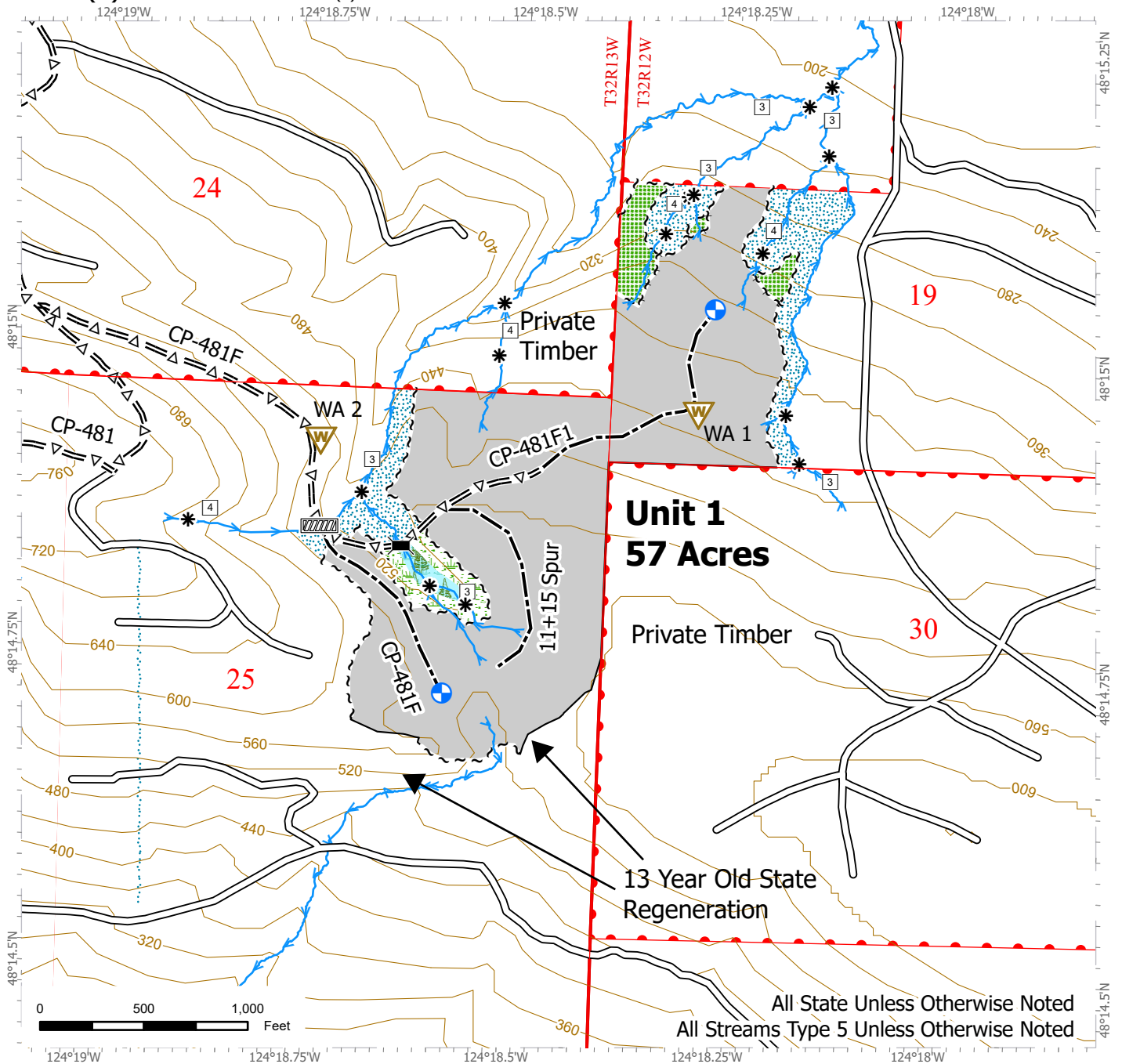
All State Unless Otherwise Noted
 All Streams Type 5 Unless Otherwise Noted

Cable	Existing Roads	Proposed Landing
Ground	Optional Pre-Haul Maintenance	Waste Area
Leave Tree Area	Optional Construction	Streams
Riparian Mgt Zone	Optional Reconstruction	Stream Type
Sale Boundary Tags	Public Land Survey Sections	Stream Break
Leave Tree Tags	Public Land Survey Townships	Contours 40 ft
Timber Type Change	DNR Managed Lands	
	Survey Monument	

LOGGING PLAN MAP

SALE NAME: DRIFTWOOD DELIGHT
AGREEMENT #: 30-106463
TOWNSHIP(S): T32R12W, T32R13W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 120'-800'



Ground	Existing Roads	Bridge
Leave Tree Area	Optional Pre-Haul Maintenance	Stream Crossing
Forested Wetland	Optional Construction	Proposed Landing
Wetland Mgt Zone	Public Land Survey Sections	Waste Area
Riparian Mgt Zone	Public Land Survey Townships	Streams
Sale Boundary Tags	DNR Managed Lands	Stream Type
Leave Tree Tags	Survey Monument	Stream Break
Timber Type Change		Contours 40 ft



IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
FOR JEFFERSON COUNTY

STATE OF WASHINGTON,)	
)	
Petitioner,)	No. 7251
)	
vs.)	JUDGMENT AND DECREE
)	OF APPROPRIATION
BERT L. COLE and NORMA COLE,)	
husband and wife,)	
)	
Defendants.)	

This cause of action coming on duly and regularly for trial on the 3rd day of October 1966, before the above entitled court, sitting without a jury, trial by jury not having been demanded, to ascertain, determine, and award the compensation to be made in money to the owners, tenants, encumbrancers, and other persons interested therein, for the taking or injuriously affecting of lands, real estate, premises, and other property as damages for the establishment of a land management road; the petitioner appearing by J. R. Pritchard, Assistant Attorney General, and the defendants, who failed to appear either personally or by their attorneys; and

The court being satisfied by proof that all parties interested in the lands, real estate, and premises and other property described in the petition of the petitioner on file herein and hereinafter specifically set forth, have been duly served with notice in this action as required by law; and

having been further satisfied by competent proof that the contemplated use for which said lands, real estate, premises, and other property are sought to be appropriated is really a public use, namely a land management road, and accordingly having heretofore made and entered in this action its order adjudicating public use; and

The court having heard and duly considered the evidence offered on behalf of petitioners (defendants having presented no evidence) concerning the lands, real estate, premises, and other property sought to be appropriated and used by the said petitioner for the above mentioned purposes, and the court having found and assessed the damages including the value of the land appropriated, resulting to all persons and parties interested therein by reason of such appropriation of lands, real real estate, and premises, in the sum of 76 168 as the total amount to be paid by the petitioner in this action to the defendants, Bert L. Cole and Norma Cole, husband and wife;

Now Therefore, in accordance with the foregoing findings, the court being fully advised,

IT IS ORDERED, ADJUDGED and DECREED that 76 168 is the total amount of compensation, including costs to be paid into the registry of the court herein by petitioner, for the defendants Bert L. Cole and Norma Cole, husband and wife, and all other persons interested therein for the appropriation

and use by the said petitioner as a land management road of the following lands, real estate, premises, and other property being acquired herein from said defendants in Jefferson County, Washington, to-wit:

That portion of the North Half of the Northeast Quarter ($N\frac{1}{2} NE\frac{1}{4}$), Section 1, Township 26 North, Range 12 West, W.M., included within the limits of a strip of land 100 feet width, having 50 feet of such width on each side of the following described centerline:

Beginning at a point on the north line of said Section 1 which is north $88^{\circ} 44'$ west 1855.7 feet from the northeast corner thereof, said point of beginning being a point on a 1° curve to the left, the tangent to said point on said curve bears south $61^{\circ} 53'$ east and running thence on an arc of said 1° curve to the left 1963.6 feet to a point on the east line of said Section 1 which is south 573.7 feet from the northeast corner thereof, the tangent to said 1° curve at said point bears south $81^{\circ} 31'$ east, having an area of 4.5 acres, more or less.

It is further Ordered, Adjudged, and Decreed, that upon the payment into the registry of the above entitled court of the sum of 168⁰⁰ with costs herein taxed at _____, the petitioner, State of Washington, shall be and become vested with a nonexclusive easement in perpetuity over and across the $4\frac{1}{2}$ acres of land described herein, said easement being under the terms and conditions of Exhibit 1 to this Judgment and Decree of Appropriation, which said exhibit is by this reference made a part hereof, and shall be entitled to enter into possession of and at all times thereafter use and possess the land included within the easement herein, and that such payment shall be in full for the taking, condemnation,

and appropriation and use of the same.

It is further Ordered, Adjudged, and Decreed that upon payment of the said award and judgment into the registry of the court in this cause, the clerk thereof, be, and hereby is, ordered and directed to satisfy said judgment and to hold such sum of money for distribution subject to further order of this court.

Done in Open Court this 3rd day of October
1966.

Joseph H. Johnston
J U D G E

EXHIBIT 1

The following are the terms and conditions of the nonexclusive easement in perpetuity over and across the lands described in Exhibit A, above, for which petitioner prays in the petition to which this Exhibit B is attached:

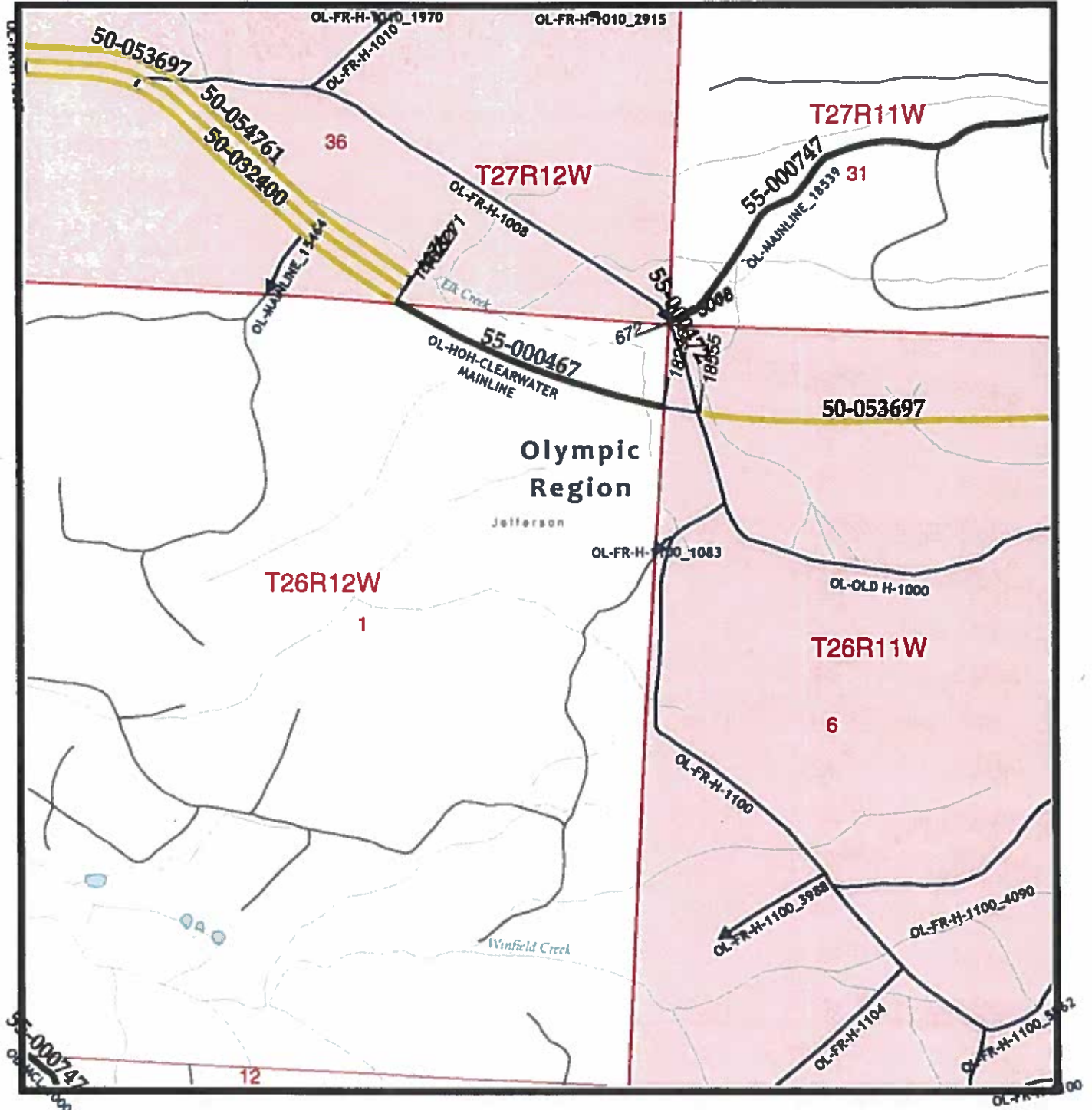
Petitioner to have all rights, privileges, and authority for the full use and enjoyment of land management road FR-H-1000 as it passes over and across the lands described in Exhibit A, above, for any and all purposes deemed necessary or desirable by petitioner in connection with the control, management, and administration of lands owned by, or under the control of, petitioner, with the right in petitioner to extend any or all of such rights, privileges, and authority to such other person, agency, or corporation as petitioner, in its absolute discretion, desires.

The defendants to have reserved to themselves, their successors and assigns, the right to cross and recross the said land management road FR-H-1000, on grade or otherwise, without charge, for any and all purposes deemed necessary or desirable by defendants in connection with the management and administration of their lands or the resources thereof; providing only, that such crossing or recrossing will not interfere unduly with the use of said road by petitioner.

Defendants to have reserved to themselves, their

successors and assigns, the right to use, maintain, patrol, reconstruct and repair the said land management road FR-H-1000 for any and all purposes; providing only, they shall perform, or cause to be performed, their proportionate share of the maintenance and resurfacing of the said land management road FR-H-1000, or any portion thereof used by them, as it passes over and across the lands aforesaid, made necessary by heavy hauling thereon, their said share to be computed on the ratio of their heavy hauling to all heavy hauling thereon, to the end that said road shall be in at least as good condition at the time their heavy hauling ends as it was at the time their heavy hauling commenced.

Defendants to have, in addition to such monetary damages as the court shall adjudge herein, a nonexclusive easement for the use of said FR-H-1000 land management road as it passes over and across lands owned by petitioner in Sections 34, 35, and 36, Township 27 North, Range 12 West, W.M., subject to defendants paying their proportionate share of the costs of said road.








Right of Way Easements Road by USGS Class

Grant Code





-  1: Acquired by DNR
-  2: Granted by DNR
-  3: Merged in Title

DNR Routes

-  Route Direction

-  1: Primary Highway/All-Weather/Hard Surface
-  2: Secondary Highway/All-Weather/Hard Surface
-  3: Light-Duty Road/All-Weather/Improved
-  4: Unimproved Road/Fair or Dry Weather
-  5: 4 wheel drive

DNR Managed Lands

-  Granted Trust Lands
-  Forest Board Trust Lands
-  NAP / NRCA
-  Other DNR-Managed Lands;