



TIMBER NOTICE OF SALE

SALE NAME: RIDGE RUN

AGREEMENT NO: 30-103766

AUCTION: May 29, 2024 starting at 10:00 a.m., Olympic Region Office, Forks, WA

COUNTY: Clallam

SALE LOCATION: Sale located approximately 7 miles west of Clallam Bay, WA

PRODUCTS SOLD AND SALE AREA:

All timber, excluding downed red cedar, trees marked with a band of blue paint or bounded out by leave tree area tags; bounded by timber sale boundary tags, P-1620, and P-1600 in Unit 1; timber sale boundary tags, P-1600, and P-1601 in Unit 2; timber sale boundary tags, timber type change, P-3200, and P-1000 in Unit 3; timber sale boundary tags and P-1000 in Units 4 & 5; timber sale boundary tags, timber type change, and the 11+25 Spur Road in Unit 6; timber sale boundary tags in Unit 7.

All forest products above located on part(s) of Sections 7 all in Township 31 North, Range 12 West, Sections 11, 12, 13 and 14 all in Township 31 North, Range 13 West, W.M., containing 175 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:

Table with columns: Species, Avg DBH, Ring Count, Total MBF, and MBF by Grade (1P, 2P, 3P, SM, 1S, 2S, 3S, 4S, UT). Rows include Hemlock, Douglas fir, Red alder, Redcedar, and Sale Total.

MINIMUM BID: \$448,000.00

BID METHOD: Sealed Bids

PERFORMANCE SECURITY:

\$89,600.00

SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2027

ALLOCATION: Export Restricted

BID DEPOSIT: \$44,800.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: 5% Ground/ 95% Cable. 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 is limited to tracked equipment on sustained slopes that are 45 percent and less. Rubber tired skidders, shovel logging and cable assist/tethered logging must meet rutting and skidding requirements and a harvest plan must be submitted and approved by the Contract Administrator. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.



TIMBER NOTICE OF SALE

Logs being yarded over inner gorge in unit 3 must be bucked to no longer than 40ft log lengths.

30' Equipment Limitations Zone (ELZ) on all typed water.

ROADS: 65.57 stations of optional construction. 769.15 stations of optional prehaul maintenance. 1.25 stations of decommissioning.

On the P-1000 (stations 78+90-82+75, 160+40-180+65) any road work, right -of-way timber falling and yarding, rock pit operations, or operation of heavy equipment performed during the marbled murrelet nesting season (April 1st through September 23rd), is restricted to, two hours after sunrise to two hours before sunset. This does not apply to hauling timber, rock, or equipment.

All activities utilizing the P-1600 from stations 81+00 to 102+50 is limited to a 3 month operating window from May 29 to September 30, 2025. Two weeks' notice is required before closing the road.

ACREAGE DETERMINATION

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

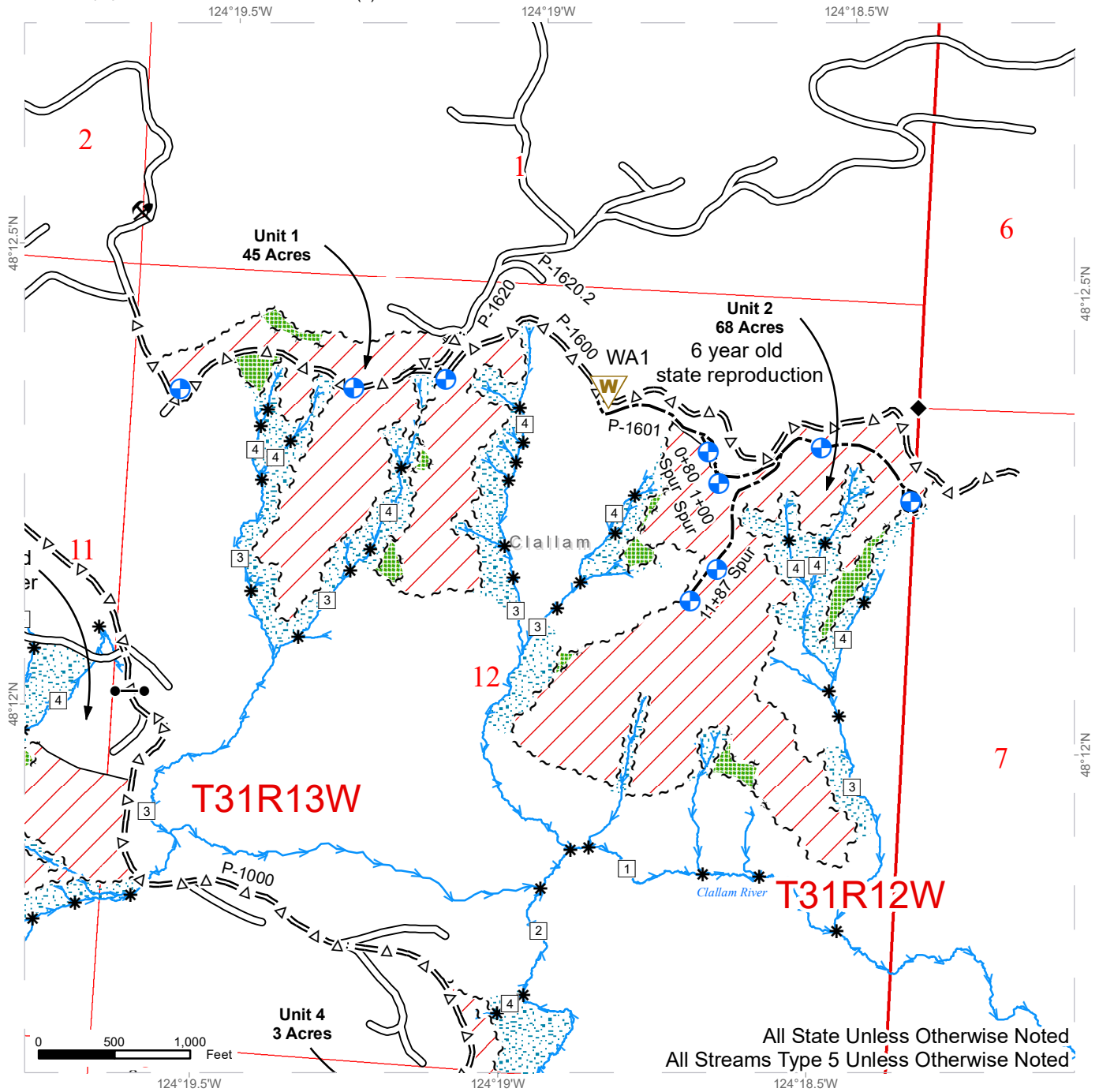
FEES: \$95,693.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: There is a locked gate on the Mary Clark Pit and a locked gate on the P-1000 - contact the Olympic Region Dispatch Center at 360-374-2800 to obtain a AA1 key.

TIMBER SALE MAP

SALE NAME: RIDGE RUN
AGREEMENT #: 30-103766
TOWNSHIP(S): T31 R13W, T31 R12W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 500'-1500'



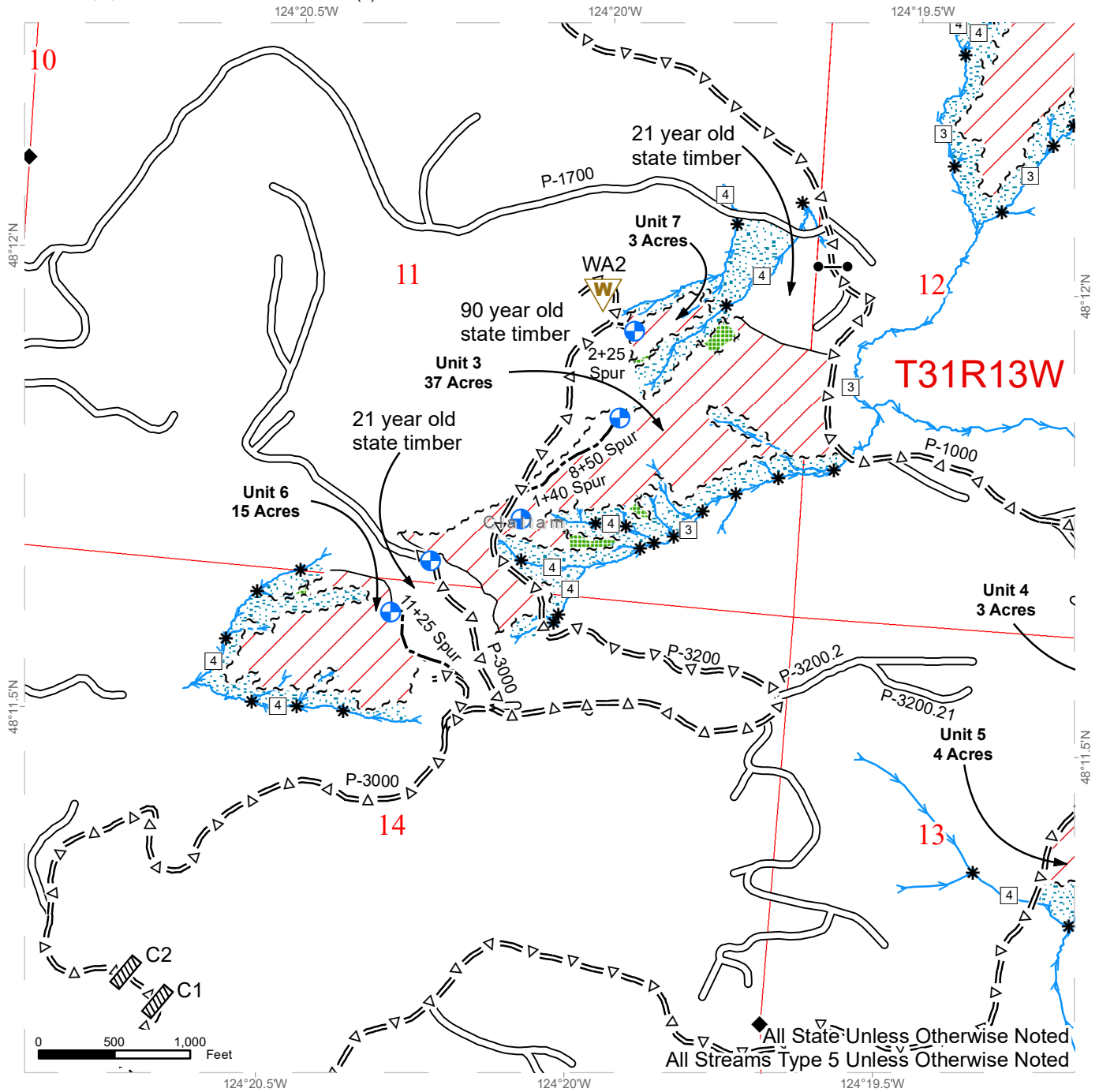
All State Unless Otherwise Noted
 All Streams Type 5 Unless Otherwise Noted

~ ~ ~ Sale Boundary Tags	⊕ Proposed Landing	◆ Survey Monument
~ ~ ~ Leave Tree Tags	W Waste Area	▒ Leave Tree Area
— Timber Type Change	→ Streams	▒ Riparian Mgt Zone
— Existing Roads	□ Stream Type	▒ Variable Retention Harvest
=Δ= Optional Pre-Haul Maintenance	* Stream Type Break	▒ Public Land Survey Townships
--- Optional Construction		▒ Public Land Survey Sections
— Designated Skid Trail		▒ DNR Managed Lands

TIMBER SALE MAP

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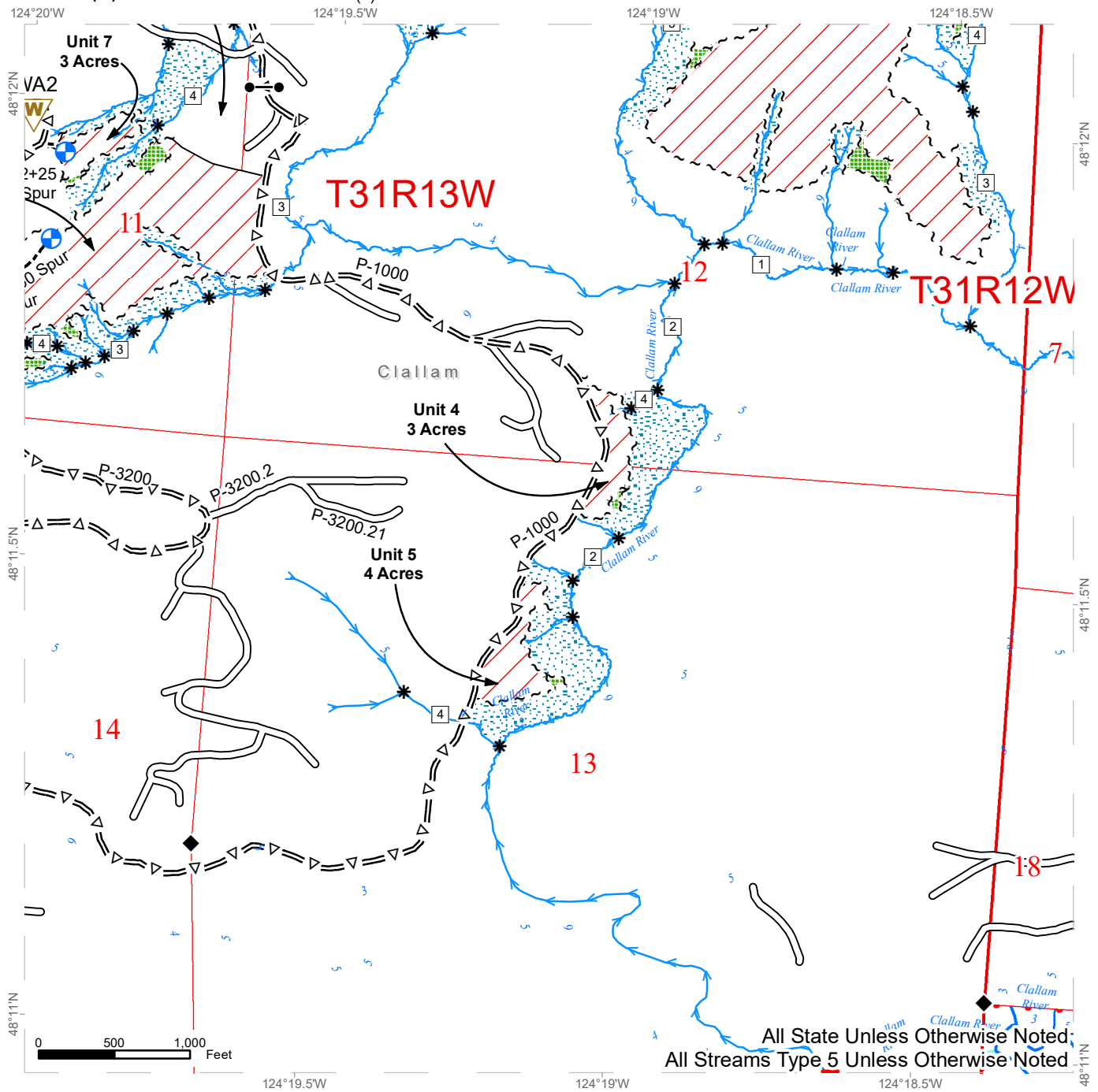
~ ~ ~ Sale Boundary Tags	▨ Stream Crossing	◆ Survey Monument
⋈ ⋈ ⋈ Leave Tree Tags	⊕ Proposed Landing	▨ Leave Tree Area
— Timber Type Change	⚠ Waste Area	▨ Riparian Mgt Zone
— Existing Roads	→ Streams	▨ Variable Retention Harvest
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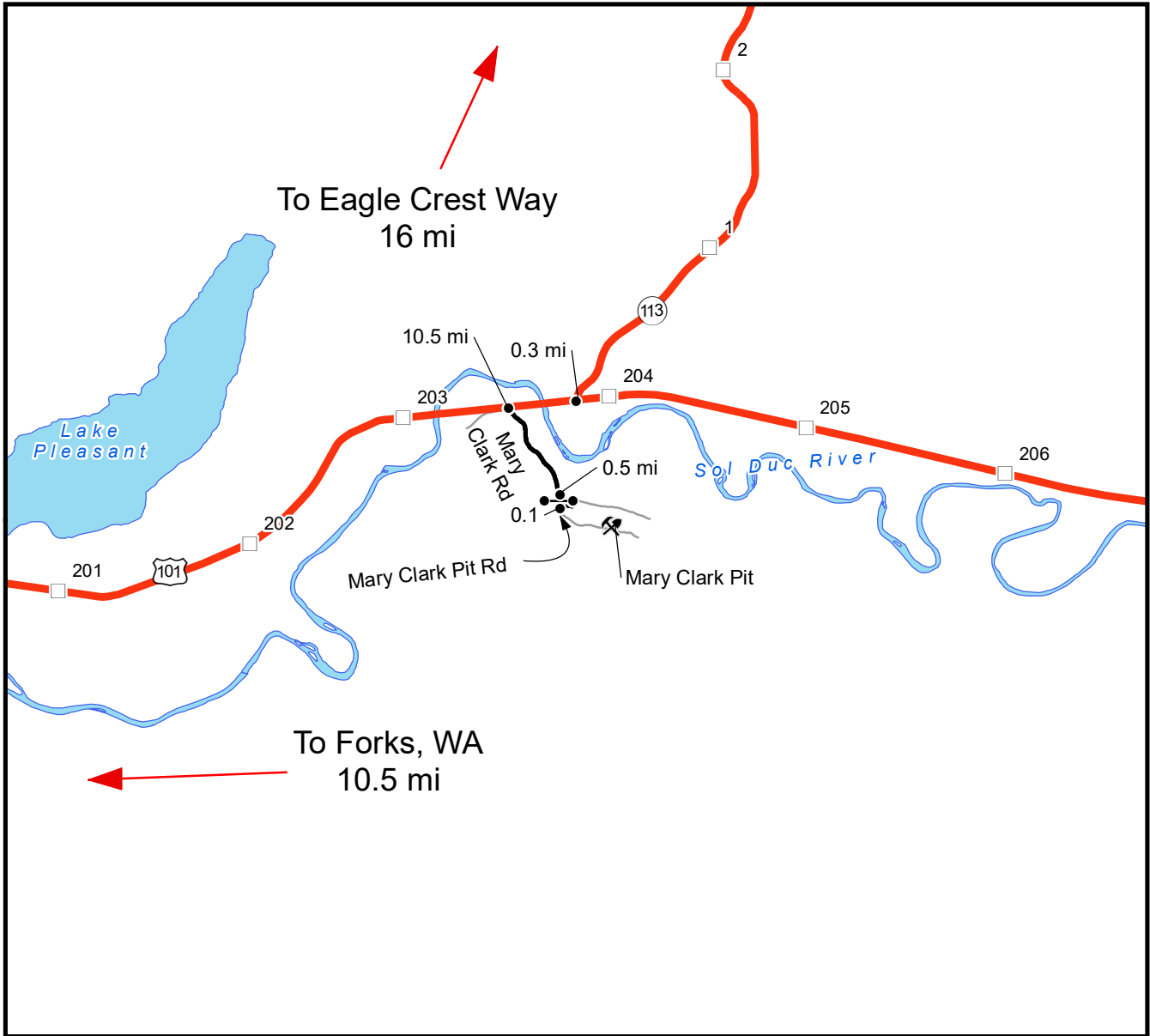
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DRIVING MAP

SALE NAME: RIDGE RUN
AGREEMENT#: 30-103766
TOWNSHIP(S): T31R13W, T31R12W
TRUST(S): State Forest Transfer Trust (01)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 500'-1500'



Map may not be to scale

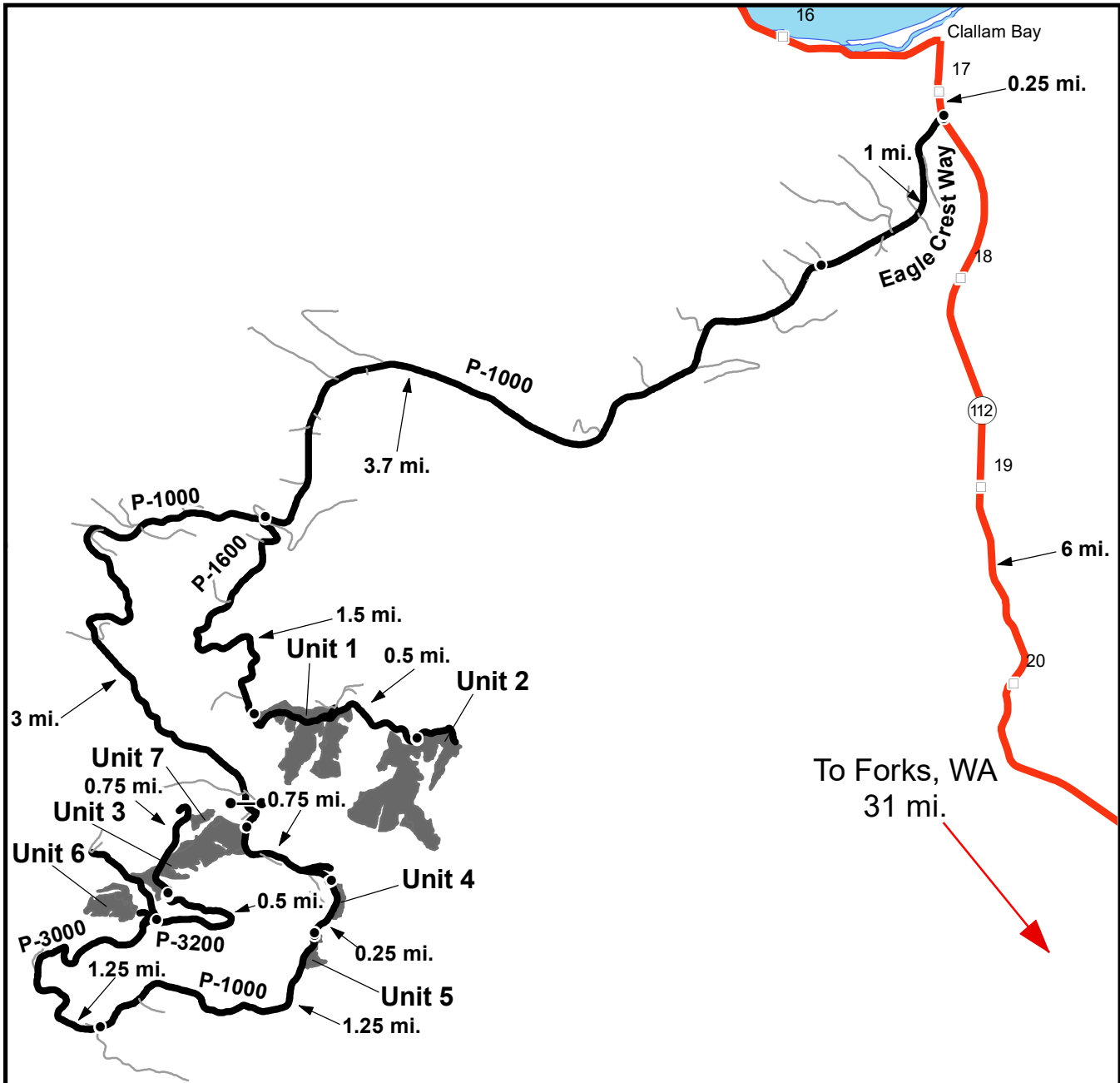
<ul style="list-style-type: none"> Timber Sale Unit Rock Pit Gate < AA-1 > Milepost Markers Highway Haul Route Other Road 	<p><u>DRIVING DIRECTIONS:</u> Mary Clark Pit: From Forks, WA. Travel north on HWY 101 for 10.5 miles. Turn right onto Mary Clark Rd and continue for 0.5 mi. Turn right onto Mary Clark Pit Rd and continue for 0.1 mi.</p>
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Map may not be to scale

	Timber Sale Unit
	Gate <AA-1>
	Highway
	Haul Route
	Other Road
	Milepost Markers
	Highway Shield

DRIVING DIRECTIONS:

Unit 1: From Clallam Bay, drive 0.25 mi south on Hwy 112. Turn left on Eagle Crest Way and continue for 1 mi. Stay left and merge onto the P-1000 and continue for 3.7 mi. Turn left on to the P-1600 and continue for 1.5 mi.
 Unit 2: From Unit 1, continue east on the P-1600 for 0.5 mi.
 Unit 3: From the intersection of the P-1600 and P-1000, continue on the P-1000 for 3 mi.
 Unit 4: From Unit 3, continue on the P-1000 for 0.75 mi.
 Unit 5: From Unit 4, continue on the P-1000 for 0.25 mi.
 Unit 6: From Unit 5, continue on the P-1000 for 1.25 mi. Merge right onto the P-3000 for 1.25 mi.
 Unit 7: From Unit 6, turn onto the P-3200 for 0.5 mi. Continue 0.75 mi down decommissioned section of P-3200.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-0103766

SALE NAME: RIDGE RUN

**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 May 29, 2024 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, excluding downed red cedar, trees marked with a band of blue paint or bounded out by leave tree area tags; bounded by timber sale boundary tags, P-1620, and P-1600 in Unit 1; timber sale boundary tags, P-1600, and P-1601 in Unit 2; timber sale boundary tags, timber type change, P-3200, and P-1000 in Unit 3; timber sale boundary tags and P-1000 in Units 4 & 5; timber sale boundary tags, timber type change, and the 11+25 Spur Road in Unit 6; timber sale boundary tags in Unit 7.

All forest products described above located on approximately 175 acres on part(s) of Section 7 in Township 31 North, Range 12 West, Sections 11, 12, 13, and 14 all in Township 31 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	Slash Piling Specs
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 \$839.00 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-106 Adding Naturally Damaged Forest Products

Any forest products not designated for removal that are seriously damaged by disease, insects or wind, or that may contribute seriously to the spread of insect or disease damage may be added to this sale by the State's Contract Administrator. Additions must be in unlogged areas of the sale and added volume shall not exceed an amount equal to 10 percent of the original advertised volume. Added forest products become a

part of this contract and shall be paid for at the rate set forth in clause G-101, G-102 or G-103.

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; P-1000, P-3000, P-3200, P-1600, P-1601, P-1620, 8+50 Spur, 1+40 Spur, 2+25 Spur, 11+25 Spur, 1+00 Spur, 0+80 Spur, Mary Clark Pit Road, Sappho LTSP Main, 11+87 Spur. 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 P-1000 or Eagle Crest Way, unless authority is granted in writing by the Contract Administrator. Loading on and blocking the P-1600 from stations 81+00 to 102+50 is limited to a 3 month operating window between May 1st to October 31st 2024. Two week notice is required before closing the road.

G-380 Road Easement and Road Use Permit Requirements

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

Easement: Dept. of Corrections 55-002316

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:

DATA MISSING

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 \$146,354.00. The total contract price consists of a \$0.00 contract bid price plus \$146,354.00 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 \$0.00. 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-001 Operations Outside the Sale Boundaries**

No operations shall occur outside the sale boundaries, as described within the contract, unless approved in writing by the State.

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-016 Skid Trail Requirements

A skid trail is defined as an area that is used for more than three passes by any equipment.

Purchaser shall comply with the following during the yarding operation:

- a. A skid trail will not exceed 12 feet in width, including rub trees.
- b. Skid trails shall not cover more than 15 percent of the total acreage on one unit.
- c. Location of the skid trails must be marked by Purchaser and approved by the Contract Administrator.
- d. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.
- e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.

- f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.
- g. Purchaser will not have more than two skid trails open to active skidding at any one time. All other skid trails used for skidding timber will be closed.
- h. Once a skid trail is closed, Purchaser will not reopen a skid trail unless approved in writing by the Contract Administrator.
- i. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.

Purchaser shall not deviate from the requirements set forth in this clause without prior written approval from the Contract Administrator.

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, shovel logging and cable assist/tethered logging in the sale area. The plan shall address the location and timing of desired use, 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 cable, cable-tethered, and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75 percent and less. Ground based equipment is limited to tracked equipment on sustained slopes that are 45 percent and less. Rubber tired skidders, Shovel logging and cable assist/tethered logging being allowed only if rutting and skidding requirements can be met and a harvest plan is submitted and approved by the Contract Administrator. Logs being yarded over inner gorge in unit 3 must be bucked to no longer than 40ft log lengths.

30' Equipment Limitations Zones (ELZ) on all typed water. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

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 sale.
2. While felling timber, two Warning signs must be posted on the P-1000, P-1600, P-3000, and P-3200 roads.
3. Yarding equipment shall not cross live streams without an FPHP.
4. Purchaser shall fully suspend one end of the logs above the ground and over streams during logging operations.
5. Purchaser shall pre-mark corridors for cable yarding in Unit 3 and give 3 days notice for the Geologist or State Contract Administrator approval. Bumper logs will be used in all yarding corridors across streams and cut RMZ trees will be left behind. Yarding Corridor width shall not exceed 30 feet.
6. Purchaser shall buck all logs being cable yarded through corridors in Unit 3 to no longer than 40-foot lengths.
7. 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 similar size and species as approved by the Contract Administrator.
8. All activities utilizing the P-1600 from stations 81+00 to 102+50 are limited to a 3 month operating window from May 29th to September 30th 2025. Two weeks notice is required before closing the road

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

H-142 Wildlife Timing Restrictions

The following wildlife timing restrictions apply to this contract and shall be in place in the locations shown on the attached timber sale map.

On the P-1000 (stations 78+90-82+75, 160+40-180-65) Timber felling, road work or operation of heavy equipment performed during the marbled murrelet nesting season (April 1st through September 23rd), is restricted to, two hours after sunrise to two hours before sunset. This does not apply to hauling timber, rock, or equipment.

Permission to do otherwise must be granted in writing by the State

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 9/7/2023 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-60. 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 P-1000 (Sta. 0+00-192+50), P-1600 (Sta. 0+00-102+50), P-1620 (Sta. 0+00-4+50), Sappho LTSP Main (Sta. 0+00-5+00), Mary Clark Pit Road (All Stations). 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-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 stream 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 1-7.

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

Print Name

Olympic Region Manager

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
Slash Piling Specs

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 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 streams.

Schedule B
Green Tree Retention Plan

Leave the following as directed but the Contract Administrator:

1. All trees banded with blue 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.

<u>Unit #</u>	<u># of Individually Marked Trees</u>	<u># of Clumps</u>	<u># of Trees Clumped</u>	<u>Total # of Leave Trees</u>
1	50	4	310	360
2	92	4	452	544
3	85	3	211	296
4	0	1	24	24
5	0	1	32	32
6	94	1	26	120
7	13	1	11	24
TOTAL	334	15	1066	1400



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: Ridge Run	Region: Olympic
Agreement #: 30-103766	District: Ozette
Contact Forester: Trystan Harpold Phone / Location: (360) 640-9471	County(s): Clallam, Choose a county
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.	95%
Harvest System: Ground based Click here to enter text.	5%
Enter % of sale acres	
Harvest System: Select harvest system Click here to enter text.	

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	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	T31 R13W S12	1	75	25	3	2	0	45	GPS (Garmin)
2	T31 R13W S12	1	99	24	4	3	0	68	GPS (Garmin)
3	T31 R13W S11	1	56	15	2	2	0	37	GPS (Garmin)
4	T31 R13W S12	1	11	7	0	1	0	3	GPS (Garmin)
5	T31 R13W S13	1	14	10	0	0	0	4	GPS (Garmin)
6	T31 R13W S11	1	23	8	0	0	0	15	GPS (Garmin)
7	T31 R13W S14	1	9	6	0	0	0	3	GPS (Garmin)
TOTAL ACRES			287	95	9	8	0	175	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	<p>Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, and roads. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint.</p>		<p>Clumped Leave Trees: 310 Individual Leave Trees: 50 Total Trees: 360</p>
2	<p>Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, and roads. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint.</p>		<p>Clumped Leave Trees: 452 Individual Leave Trees: 92 Total Trees: 544</p>
3	<p>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.</p>		<p>Clumped Leave Trees: 211 Individual Leave Trees: 85 Total Trees: 296</p>
4	<p>Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, and roads. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint.</p>		<p>Clumped Leave Trees: 24 Individual Leave Trees: 0 Total Trees: 24</p>
5	<p>Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, and roads. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint.</p>		<p>Clumped Leave Trees: 32 Individual Leave Trees: 0 Total Trees: 32</p>
6	<p>Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, and timber type change. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint.</p>		<p>Clumped Leave Trees: 26 Individual Leave Trees: 94 Total Trees: 120</p>
7	<p>Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, blue paint, and timber type change. Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint.</p>		<p>Clumped Leave Trees: 13 Individual Leave Trees: 11 Total Trees: 24</p>

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, 1,080 MBF	Accessed from the P-1600.	See Cruise Map
2	Douglas-Fir, Western Hemlock, 1,656 MBF	Accessed from the P-1600.	See Cruise Map
3	Douglas-Fir, Western Hemlock, 1,221 MBF	Accessed from the P-1000.	See Cruise Map
4	Douglas-Fir, Western Hemlock, 99 MBF	Accessed from the P-1000.	See Cruise Map
5	Douglas-Fir, Western Hemlock, 132 MBF	Accessed from the P-1000.	See Cruise Map
6	Douglas-Fir, Western Hemlock, 462 MBF	Accessed from the P-1000. Road does not directly connect to Unit.	See Cruise Map
7	Douglas-Fir, Western Hemlock, 99 MBF	Accessed from the P-1700 or the P-3200. P-3200 is not drivable.	See Cruise Map
TOTAL MBF	4,749 MBF		

REMARKS:

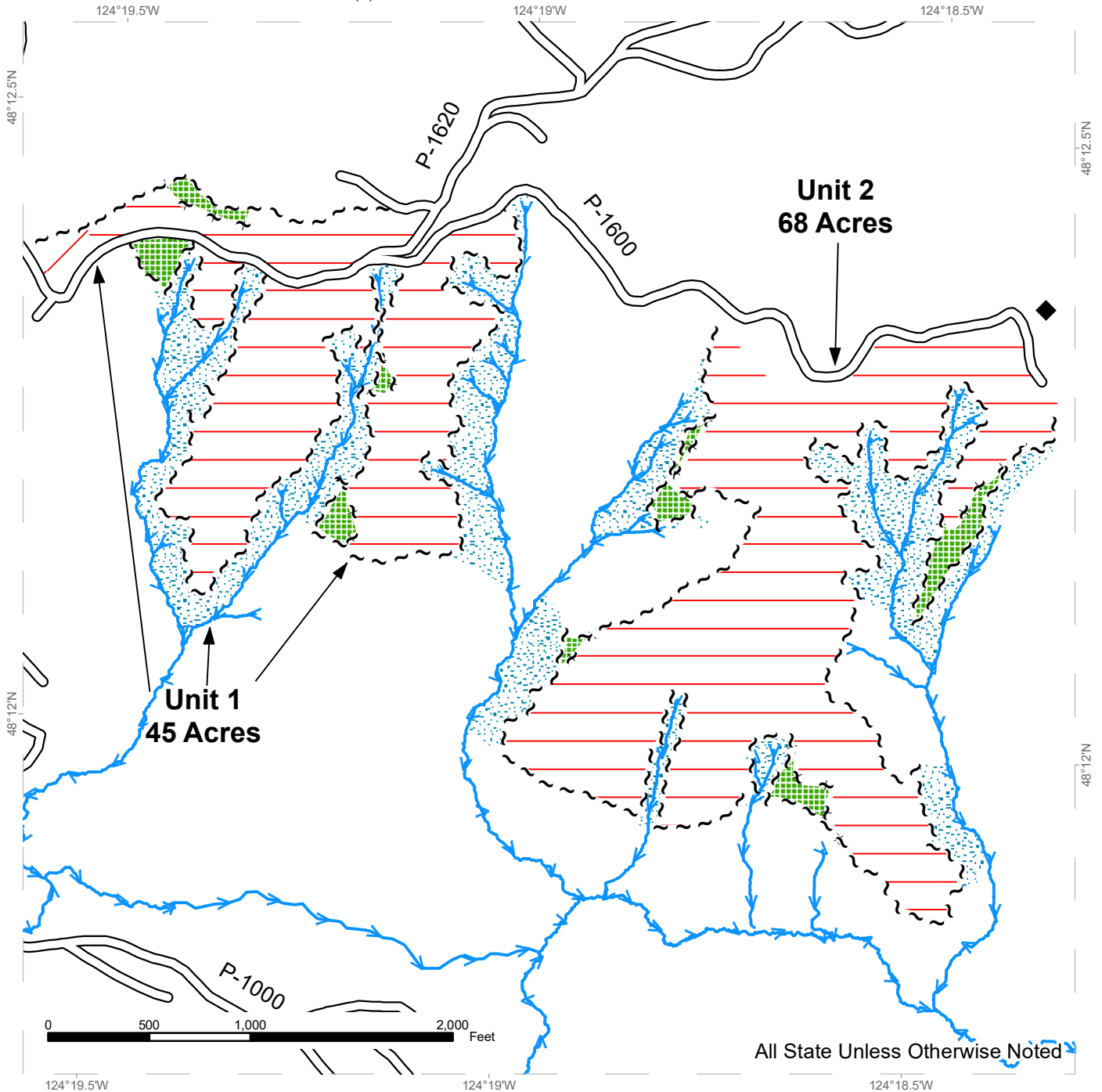
Unit 6 is only accessible by traversing 200-300ft of reprod. northwest from the P-1000. Unit 7 can be accessed from either the P-1700 by walking west up slope for 400-500ft or by walking down the P-3200 from the P-3000. Unit 6 includes some reprod to provide access for cable yarding.

Prepared By: Trystan Harpold Date: 04/20/2023	Title: State Lands Forester	CC: Erik Camacho-Roldan
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Pre-Cruise Map 1

SALE NAME: RIDGE RUN
AGREEMENT #: 30-103766
TOWNSHIP(S): T31R13W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 500-1500'



All State Unless Otherwise Noted

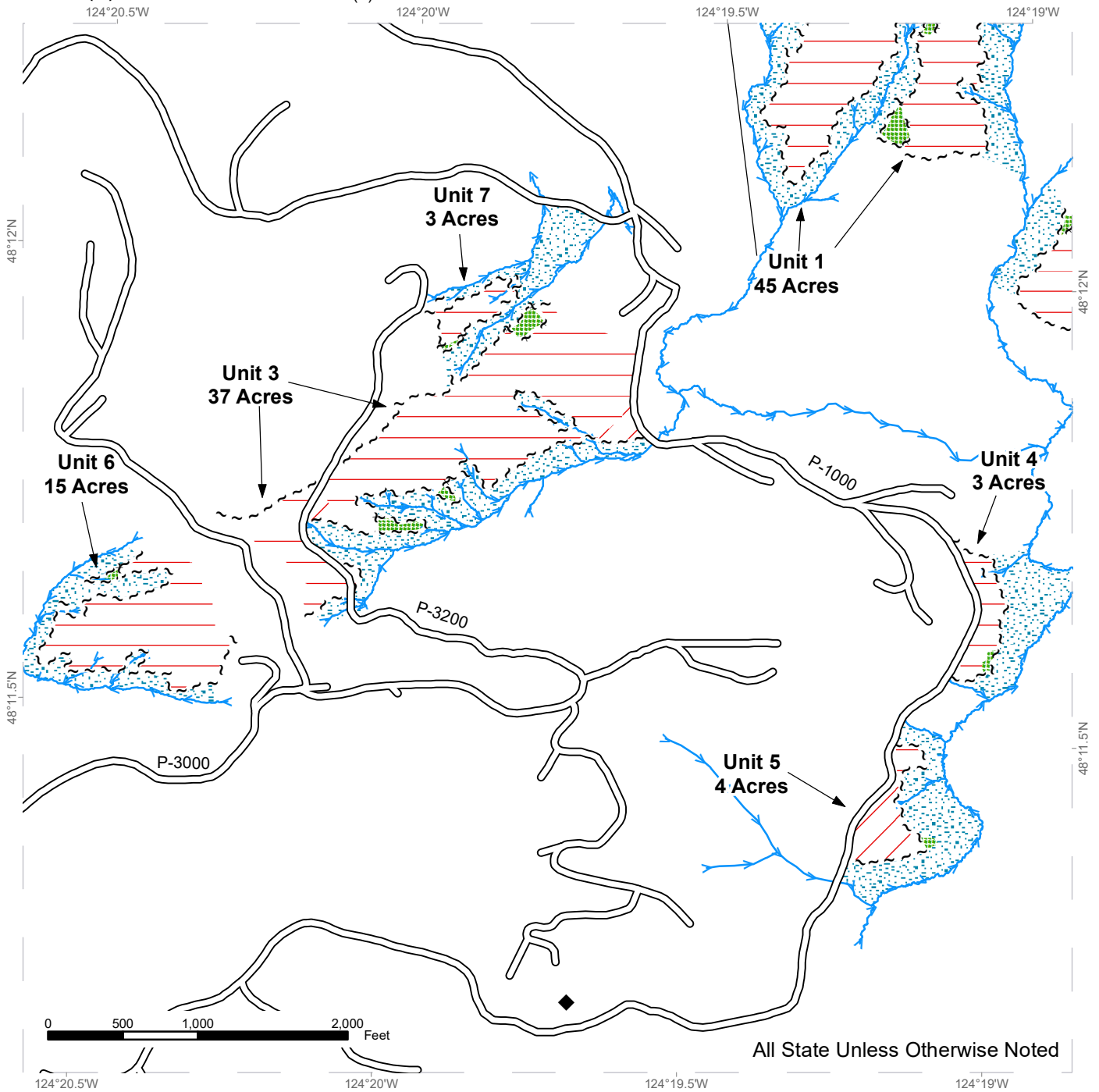
	Ground		Streams
	Cable		Survey Monument
	Sale Boundary Tags		Leave Tree Area
	Leave Tree Tags		Riparian Mgt Zone
	Existing Roads		



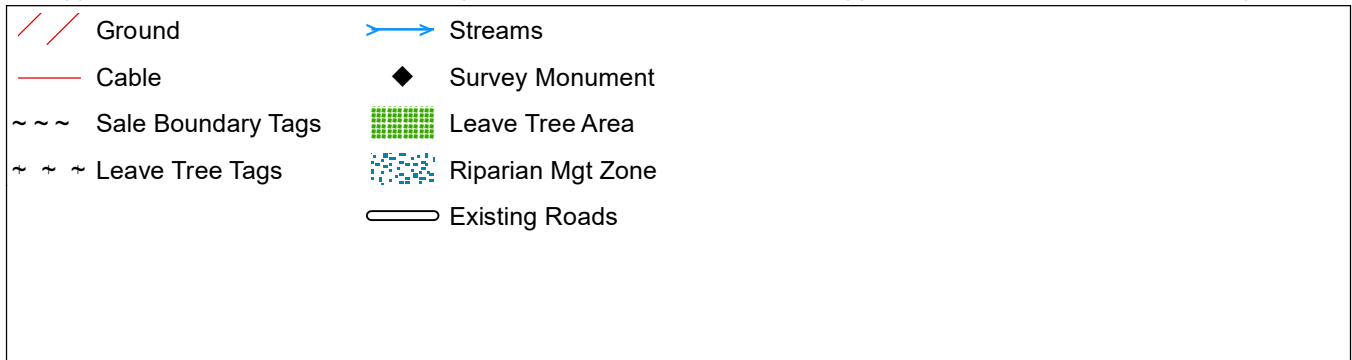
Pre-Cruise Map 2

SALE NAME: RIDGE RUN
AGREEMENT #: 30-103766
TOWNSHIP(S): T31R13W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 500-1500'



All State Unless Otherwise Noted



Timber Sale Cruise Report Ridge Run

Sale Name: RIDGE RUN

Sale Type: LUMP SUM

Region: OLYMPIC

District: OZETTE

Lead Cruiser: Kevin Peterson

Other Cruisers:

Cruise Narrative:

Location:

This sale is located on the P-1000 road system in Clallam Bay. Most units have good access or a short walk. No keys are needed.

Cruise Design:

For this sale I used a 54.44/40 BAF combo and used the 40 BAF to pick up RC and RA.

Merch height was determined at 40% of the diameter at 16'. All butt logs were cruised in 40' lengths.

Timber Quality:

This sale is mostly a mixture of mature DF and WH with diameters ranging from 12" to 30"+. There are also patches of RA throughout most of the units. Common defects were sweep and forked trees.

Logging and Stand Conditions:

This sale is 95% uphill cable harvest and 5% ground based harvest. This sale definitely has some steep areas to walk through with some loose ground cover.

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
WH	15.9	6.0		2,905	1,492	1,033	329	50
DF	17.8	6.0		2,349	1,289	815	246	
RA	14.0			369		129	225	14
RC	17.7			6		6		
ALL	16.3	6.0		5,629	2,781	1,983	800	64

Timber Sale Notice Weight (tons)

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
WH	30,496	14,901	11,648	3,162	785
DF	21,264	11,046	7,924	2,294	
RA	3,632		1,096	2,423	113
RC	81		81		
ALL	55,473	25,947	20,748	7,880	898

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
293.2	3.2	109.4	2.0	32,165	3.8

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
RIDGE RUN U1	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	45.0	49.4	24	12	0
RIDGE RUN U2	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	68.0	73.3	35	16	0
RIDGE RUN U3	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	37.0	40.4	19	9	0
RIDGE RUN U4	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	3.0	4.1	2	2	0
RIDGE RUN U5	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	4.0	4.9	2	2	0
RIDGE RUN U6	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	15.0	15.2	8	4	0
RIDGE RUN U7	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	3.0	2.7	2	2	0
All		175.0	190.0	92	47	0

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	15.5	40	8,458	7,367	12.9	11,046.3	1,289.3
DF	LIVE	3 SAW	Domestic	8.7	39	4,775	4,655	2.5	7,923.5	814.5
DF	LIVE	4 SAW	Domestic	5.2	29	1,426	1,403	1.6	2,294.0	245.6
RA	LIVE	3 SAW	Domestic	11.0	31	852	740	13.2	1,095.6	129.4
RA	LIVE	4 SAW	Domestic	7.3	35	1,448	1,287	11.1	2,423.3	225.3
RA	LIVE	UTILITY	Pulp	5.2	21	82	82	0.0	112.9	14.4
RC	LIVE	3 SAW	Domestic	7.1	36	31	31	0.0	80.8	5.5
WH	LIVE	2 SAW	Domestic	14.2	40	9,230	8,527	7.6	14,900.9	1,492.2
WH	LIVE	3 SAW	Domestic	8.1	39	6,164	5,905	4.2	11,648.2	1,033.3

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
WH	LIVE	4 SAW	Domestic	5.2	26	1,918	1,882	1.9	3,162.3	329.3
WH	LIVE	UTILITY	Pulp	5.2	36	286	286	0.0	785.0	50.0

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.1	33	3,191	1.1	5,741.2	558.4
DF	9 - 11	LIVE	Domestic	10.1	39	2,867	3.6	4,476.4	501.7
DF	12 - 14	LIVE	Domestic	13.8	40	3,326	8.1	5,081.6	582.0
DF	15 - 19	LIVE	Domestic	16.6	40	3,102	15.5	4,704.2	542.9
DF	20+	LIVE	Domestic	21.4	40	939	19.5	1,260.5	164.4
RA	5 - 8	LIVE	Pulp	5.2	21	82	0.0	112.9	14.4
RA	5 - 8	LIVE	Domestic	7.2	34	1,115	10.5	2,113.2	195.1
RA	9 - 11	LIVE	Domestic	10.6	33	912	13.5	1,405.7	159.6
RC	5 - 8	LIVE	Domestic	6.8	36	31	0.0	80.8	5.5
WH	5 - 8	LIVE	Pulp	5.2	36	286	0.0	785.0	50.0
WH	5 - 8	LIVE	Domestic	6.1	31	5,390	2.1	10,585.0	943.2
WH	9 - 11	LIVE	Domestic	10.4	40	2,397	7.0	4,225.5	419.4
WH	12 - 14	LIVE	Domestic	13.4	40	5,113	6.8	9,502.7	894.8
WH	15 - 19	LIVE	Domestic	16.1	40	3,414	8.8	5,398.2	597.4

Cruise Unit Report RIDGE RUN U1

Unit Sale Notice Volume (MBF): RIDGE RUN U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
WH	16.5	6.0		739	384	274	63	18
DF	18.3	6.0		620	362	208	50	
RA	13.9			89		36	51	2
ALL	16.9	6.0		1,448	745	518	164	20

Unit Cruise Design: RIDGE RUN 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 = 4.5 ft	45.0	49.4	24	12	0

Unit Cruise Summary: RIDGE RUN U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	28	66	2.8	1
DF	28	55	2.3	1
RA	5	14	0.6	0
ALL	61	135	5.6	2

Unit Cruise Statistics: RIDGE RUN 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	149.7	71.3	14.6	109.6	33.2	6.3	16,413	78.7	15.9
DF	124.8	75.6	15.4	110.5	30.5	5.8	13,787	81.5	16.5
RA	23.3	225.6	46.1	84.7	19.7	8.8	1,976	226.5	46.9
ALL	297.8	35.3	7.2	108.0	31.9	4.1	32,175	47.6	8.3

Unit Summary: RIDGE RUN U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	28	ALL	18.3	67	84	15,384	13,787	10.4	68.3	124.8	29.2	620.4
RA	LIVE	CUT	5	ALL	13.9	59	72	2,259	1,976	12.5	22.1	23.3	6.3	88.9

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	28	ALL	16.5	63	77	17,325	16,413	5.3	100.8	149.7	36.9	738.6
ALL	LIVE	CUT	61	ALL	16.9	64	79	34,968	32,175	8.0	191.2	297.8	72.3	1,447.9
ALL	ALL	ALL	61	ALL	16.9	64	79	34,968	32,175	8.0	191.2	297.8	72.3	1,447.9

Cruise Unit Report RIDGE RUN U2

Unit Sale Notice Volume (MBF): RIDGE RUN U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
WH	16.0	6.0		1,187	646	384	135	21
DF	18.4	6.0		1,040	648	300	92	
RA	14.0			162		60	92	10
RC	20.0			2		2		
ALL	16.6	6.0		2,391	1,294	747	319	32

Unit Cruise Design: RIDGE RUN U2

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 = 4.5 ft	68.0	73.3	35	16	0

Unit Cruise Summary: RIDGE RUN U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	39	99	2.8	1
DF	38	82	2.3	1
RA	9	25	0.7	0
RC	1	1	0.0	0
ALL	87	207	5.9	2

Unit Cruise Statistics: RIDGE RUN 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	154.0	70.4	11.9	113.3	29.3	4.7	17,449	76.3	12.8
DF	127.5	79.5	13.4	119.9	25.7	4.2	15,290	83.5	14.1
RA	28.6	178.3	30.1	83.5	23.1	7.7	2,387	179.8	31.1
RC	1.1	591.6	100.0	29.8	0.0	0.0	34	591.6	100.0
ALL	311.2	30.8	5.2	113.0	29.7	3.2	35,160	42.8	6.1

Unit Summary: RIDGE RUN U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	38	ALL	18.4	67	84	16,879	15,290	9.4	69.1	127.5	29.7	1,039.7
RA	LIVE	CUT	9	ALL	14.0	59	72	2,711	2,387	12.0	26.7	28.6	7.6	162.3
RC	LIVE	CUT	1	ALL	20.0	40	48	34	34	0.0	0.5	1.1	0.3	2.3
WH	LIVE	CUT	39	ALL	16.0	62	77	18,467	17,449	5.5	110.3	154.0	38.5	1,186.6
ALL	LIVE	CUT	87	ALL	16.6	63	79	38,091	35,160	7.7	206.6	311.2	76.1	2,390.9
ALL	ALL	ALL	87	ALL	16.6	63	79	38,091	35,160	7.7	206.6	311.2	76.1	2,390.9

Cruise Unit Report RIDGE RUN U3

Unit Sale Notice Volume (MBF): RIDGE RUN U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
WH	16.1			559	323	170	55	11
DF	16.0	6.0		362	164	145	54	
RA	14.0			118		33	83	2
RC	16.0			3		3		
ALL	15.5	6.0		1,042	487	351	192	12

Unit Cruise Design: RIDGE RUN U3

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 = 4.5 ft	37.0	40.4	19	9	0

Unit Cruise Summary: RIDGE RUN U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	16	49	2.6	0
DF	12	33	1.7	1
RA	5	18	0.9	0
RC	1	1	0.1	0
ALL	34	101	5.3	1

Unit Cruise Statistics: RIDGE RUN 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	140.4	73.5	16.9	107.6	28.3	7.1	15,106	78.7	18.3
DF	94.6	89.7	20.6	103.4	27.8	8.0	9,773	93.9	22.1
RA	37.9	184.4	42.3	84.1	14.1	6.3	3,187	185.0	42.8
RC	2.1	435.9	100.0	40.8	0.0	0.0	86	435.9	100.0
ALL	275.0	22.0	5.1	102.4	28.9	5.0	28,151	36.3	7.1

Unit Summary: RIDGE RUN U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	12	ALL	16.0	54	66	10,399	9,773	6.0	67.7	94.6	23.6	361.6
RA	LIVE	CUT	5	ALL	14.0	58	71	3,540	3,187	10.0	35.4	37.9	10.1	117.9
RC	LIVE	CUT	1	ALL	16.0	40	48	86	86	0.0	1.5	2.1	0.5	3.2
WH	LIVE	CUT	16	ALL	16.1	61	75	16,128	15,106	6.3	99.3	140.4	35.0	558.9
ALL	LIVE	CUT	34	ALL	15.7	58	71	30,154	28,151	6.6	203.9	275.0	69.3	1,041.6
ALL	ALL	ALL	34	ALL	15.7	58	71	30,154	28,151	6.6	203.9	275.0	69.3	1,041.6

Cruise Unit Report RIDGE RUN U4

Unit Sale Notice Volume (MBF): RIDGE RUN U4

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	14.1			65	34	22	10
DF	18.2			41	18	20	4
ALL	15.3			106	51	41	14

Unit Cruise Design: RIDGE RUN U4

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 = 4.5 ft	3.0	4.1	2	2	0

Unit Cruise Summary: RIDGE RUN U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	7	7	3.5	0
DF	4	4	2.0	0
ALL	11	11	5.5	0

Unit Cruise Statistics: RIDGE RUN U4

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	190.5	60.6	42.9	114.0	20.2	7.6	21,722	63.9	43.5
DF	108.9	0.0	0.0	125.1	18.1	9.0	13,623	18.1	9.0
ALL	299.4	38.6	27.3	118.0	19.0	5.7	35,345	43.0	27.9

Unit Summary: RIDGE RUN U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	4	ALL	18.2	77	97	14,038	13,623	3.0	60.3	108.9	25.5	40.9
WH	LIVE	CUT	7	ALL	14.1	58	71	23,021	21,722	5.6	175.7	190.5	50.7	65.2
ALL	LIVE	CUT	11	ALL	15.3	63	78	37,060	35,345	4.6	236.0	299.4	76.3	106.0
ALL	ALL	ALL	11	ALL	15.3	63	78	37,060	35,345	4.6	236.0	299.4	76.3	106.0

Cruise Unit Report RIDGE RUN U5

Unit Sale Notice Volume (MBF): RIDGE RUN U5

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	14.6			112	56	41	15
DF	18.2			55	23	26	5
ALL	15.5			167	79	67	21

Unit Cruise Design: RIDGE RUN U5

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 = 4.5 ft	4.0	4.9	2	2	0

Unit Cruise Summary: RIDGE RUN U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	9	9	4.5	0
DF	4	4	2.0	0
ALL	13	13	6.5	0

Unit Cruise Statistics: RIDGE RUN U5

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	245.0	15.7	11.1	114.6	18.0	6.0	28,082	23.9	12.6
DF	108.9	0.0	0.0	125.1	18.1	9.0	13,623	18.1	9.0
ALL	353.9	10.9	7.7	117.9	17.7	4.9	41,706	20.8	9.1

Unit Summary: RIDGE RUN U5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	4	ALL	18.2	77	97	14,038	13,623	3.0	60.3	108.9	25.5	54.5
WH	LIVE	CUT	9	ALL	14.6	61	75	29,763	28,082	5.6	210.7	245.0	64.1	112.3
ALL	LIVE	CUT	13	ALL	15.5	64	80	43,801	41,706	4.8	271.0	353.9	89.6	166.8
ALL	ALL	ALL	13	ALL	15.5	64	80	43,801	41,706	4.8	271.0	353.9	89.6	166.8

Cruise Unit Report RIDGE RUN U6

Unit Sale Notice Volume (MBF): RIDGE RUN U6

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	14.7			189	32	117	40
DF	14.2			175	37	99	39
ALL	14.4			363	69	216	78

Unit Cruise Design: RIDGE RUN U6

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 = 4.5 ft	15.0	15.2	8	4	0

Unit Cruise Summary: RIDGE RUN U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	7	17	2.1	0
DF	6	16	2.0	0
ALL	13	33	4.1	0

Unit Cruise Statistics: RIDGE RUN U6

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	115.7	88.7	31.4	108.6	13.6	5.1	12,564	89.7	31.8
DF	108.9	75.6	26.7	107.0	15.4	6.3	11,646	77.1	27.5
ALL	224.6	41.9	14.8	107.8	13.9	3.9	24,210	44.1	15.3

Unit Summary: RIDGE RUN U6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	6	ALL	11.7	50	74	11,995	11,646	2.9	145.8	108.9	31.8	174.7
WH	LIVE	CUT	7	ALL	14.7	62	76	13,479	12,564	6.8	98.2	115.7	30.2	188.5
ALL	LIVE	CUT	13	ALL	13.0	55	75	25,474	24,210	5.0	244.0	224.6	62.0	363.2
ALL	ALL	ALL	13	ALL	13.0	55	75	25,474	24,210	5.0	244.0	224.6	62.0	363.2

Cruise Unit Report RIDGE RUN U7

Unit Sale Notice Volume (MBF): RIDGE RUN U7

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	21.4			58	39	17	2
WH	14.0			55	17	26	12
ALL	16.3			112	56	43	14

Unit Cruise Design: RIDGE RUN U7

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 = 4.5 ft	3.0	2.7	2	2	0

Unit Cruise Summary: RIDGE RUN U7

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	5	5	2.5	0
WH	6	6	3.0	0
ALL	11	11	5.5	0

Unit Cruise Statistics: RIDGE RUN U7

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 (%)
DF	136.1	28.3	20.0	141.0	17.4	7.8	19,191	33.2	21.5
WH	163.3	0.0	0.0	112.0	22.8	9.3	18,287	22.8	9.3
ALL	299.4	12.9	9.1	125.2	22.6	6.8	37,479	26.0	11.4

Unit Summary: RIDGE RUN U7

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	5	ALL	21.4	85	107	20,767	19,191	7.6	54.5	136.1	29.4	57.6
WH	LIVE	CUT	6	ALL	14.0	63	77	19,044	18,287	4.0	152.8	163.3	43.6	54.9
ALL	LIVE	CUT	11	ALL	16.3	69	85	39,811	37,479	5.9	207.3	299.4	73.1	112.4
ALL	ALL	ALL	11	ALL	16.3	69	85	39,811	37,479	5.9	207.3	299.4	73.1	112.4



Forest Practices Application/Notification Notice of Decision

FPA/N No: 2618266

Effective Date: 2/25/2024

Expiration Date: 2/25/2027

Shut Down Zone: 650

EARR Tax Credit: Eligible Non-eligible

Reference: DNR

Ridge Run

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

Issued By: Erik Dukes

Region: Olympic

Title: Forest Practices Forester

Date: 2/25/2024

Copies to: Landowner, Timber Owner and Operator

Issued in person: LO TO OP

By:

Date: 2-23-24

Appeal Information

You have thirty (30) days to **file** (i.e., **actually deliver**) an appeal in writing of this Decision and any related State Environmental Policy Act (SEPA) determinations to the Pollution Control Hearings Board, the Attorney General's Office, and the Department of Natural Resources' region office. See [RCW 76.09.205](#). The appeal period starts when the applicant receives this decision, which usually happens electronically on the date indicated below.

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources Olympic Region
<u>Physical Address</u> 1111 Israel Road, SW Suite 301 Tumwater, WA 98501 <u>Mailing address</u> Post Office Box 40903 Olympia, WA 98504-0903	<u>Physical Address</u> 1125 Washington Street, SE Olympia, WA 98504 <u>Mailing Address</u> Post Office Box 40100 Olympia, WA 98504-0100	<u>Physical & Mailing Address</u> 411 Tillicum Lane Forks, WA 98331

Information regarding the Pollution Control Hearings Board can be found at: <http://eluh0.wa.gov/>

Other Applicable Laws

Operating as described in this application/notification does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.

Transfer of Forest Practices Application/Notification (WAC 222-20-010)

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices website <https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and>. Notify DNR of new Operators within 48 hours.

Continuing Forestland Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)

Obligations include reforestation, road maintenance and abandonment plans, conversions of forestland to non-forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

Before the sale or transfer of land or perpetual timber rights subject to continuing forest and obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land Obligation" form and send it to the DNR Region Office for retention. This form is available at DNR region offices.

If the seller fails to notify the buyer about the continuing forestland obligation, the seller must pay the buyer's costs related to continuing forestland obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forestland obligation against the seller.

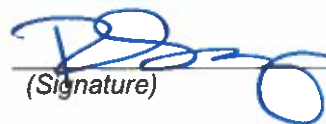
Failure by the seller to send the required notice to DNR at the time of sale will be prima facie evidence in an action by the buyer against the seller for costs related to the continuing forestland obligation prior to sale.

DNR Declaration of Mailing

I, Rosielly Sanchez, caused the Notice of Decision for FPA/N No. 2618266 to be placed in the United States mail at Forks, WA, postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

2/25/2024
(Date)

Forks, Washington
(City & State where signed)


(Signature)

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
RIDGE RUN TIMBER SALE ROAD PLAN
CLALLAM COUNTY
COAST DISTRICT

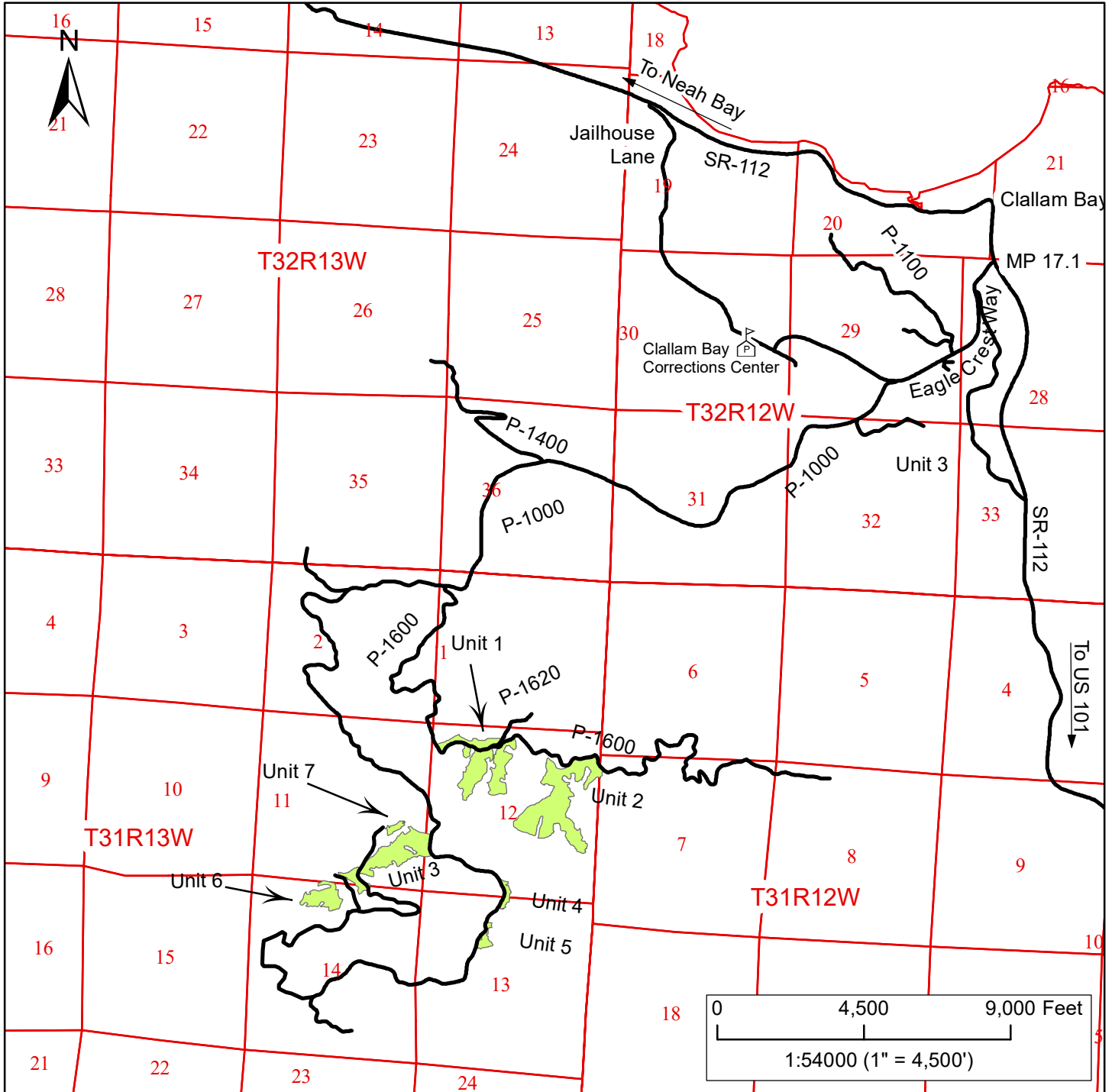
AGREEMENT NO.: 30-103766

DISTRICT ENGINEER: BILL MEHL

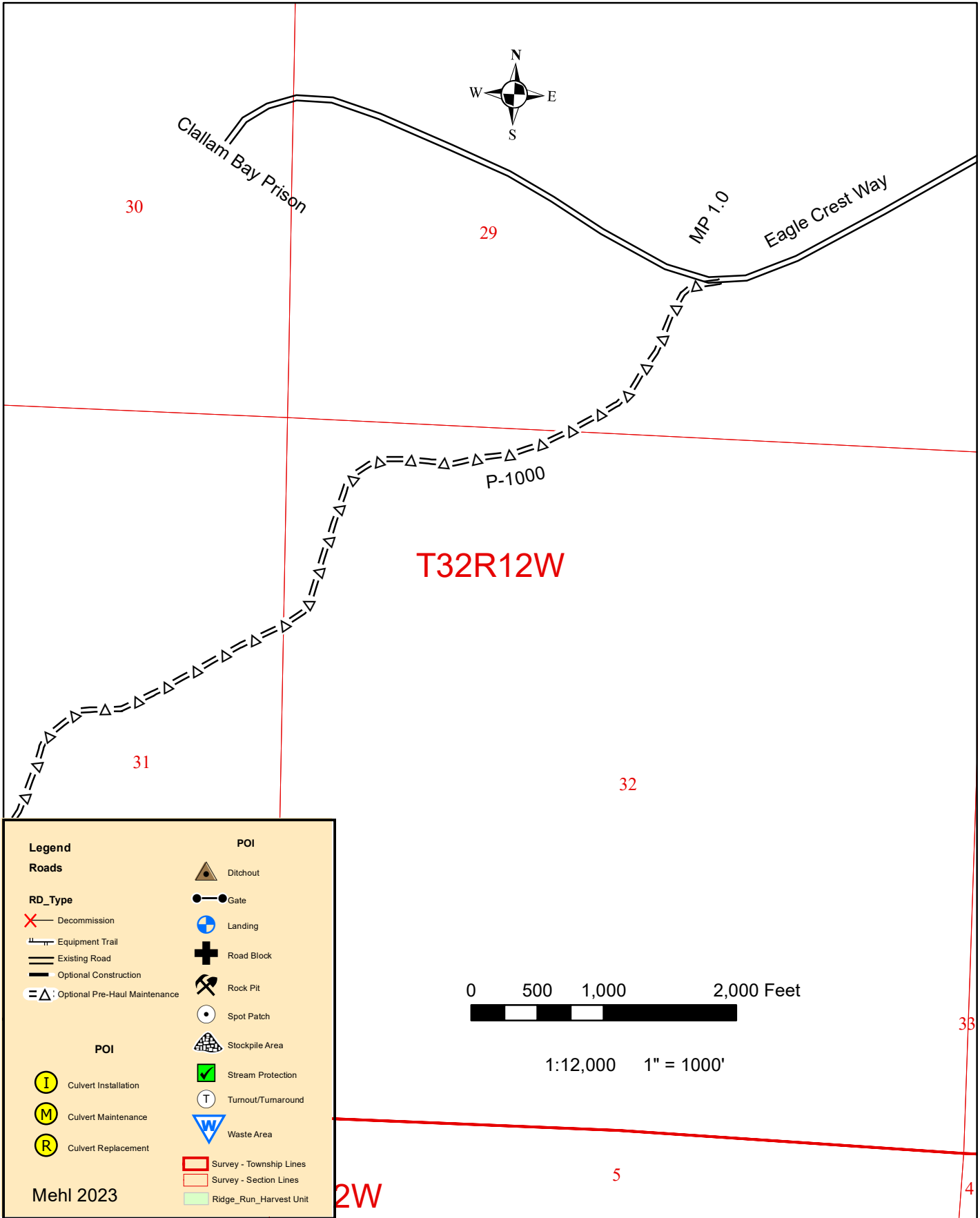
DATE: 07 SEPTEMBER 2023

DRAWN AND COMPILED BY: BILL MEHL

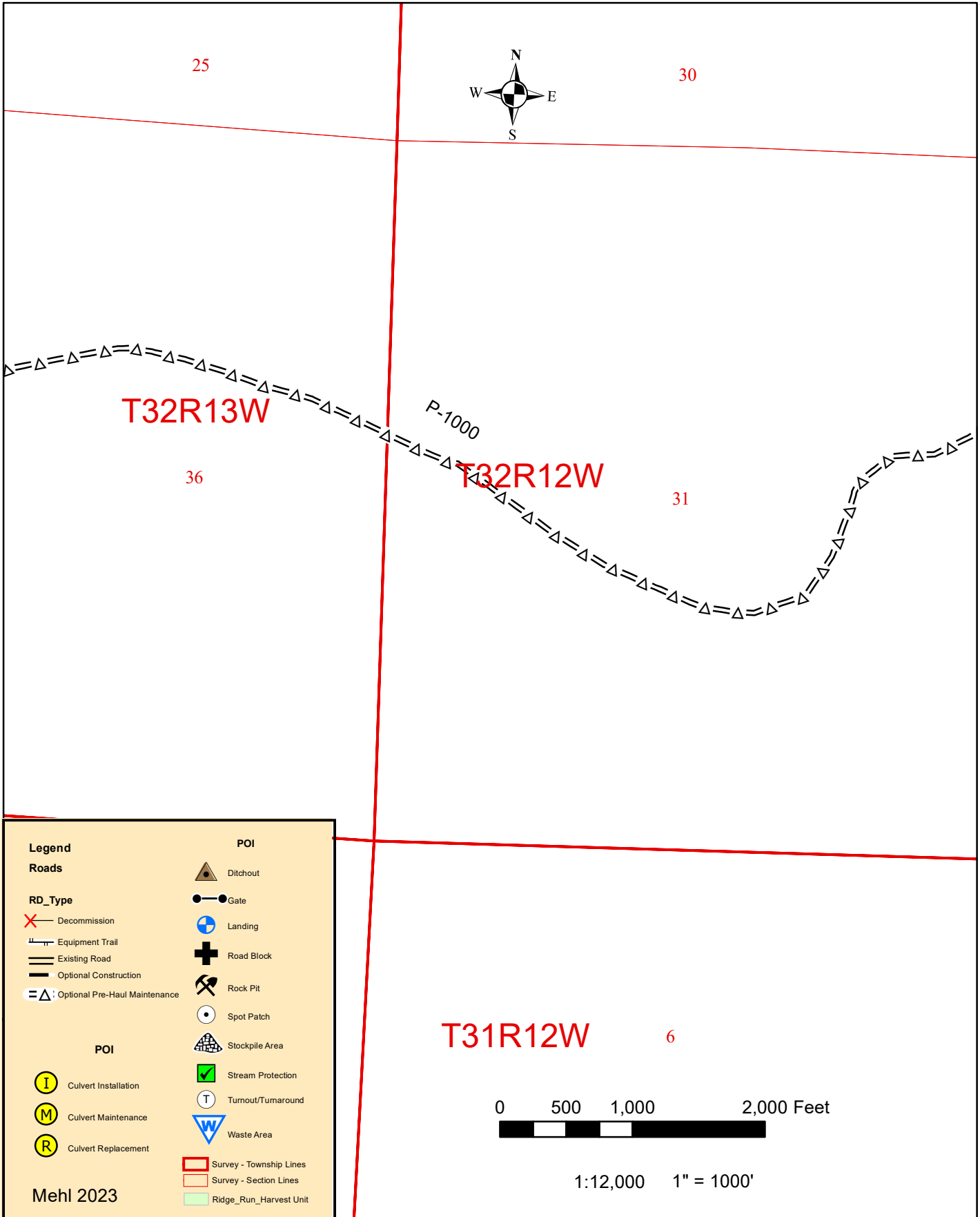
Project Map



RIDGE RUN PRE-HAUL MAINTENANCE



RIDGE RUN PRE-HAUL MAINTENANCE



Legend

Roads

RD_Type

- Decommission
- Equipment Trail
- Existing Road
- Optional Construction
- Optional Pre-Haul Maintenance

POI

- Culvert Installation
- Culvert Maintenance
- Culvert Replacement

POI

- Ditchout
- Gate
- Landing
- Road Block
- Rock Pit
- Spot Patch
- Stockpile Area
- Stream Protection
- Turnout/Turnaround
- Waste Area

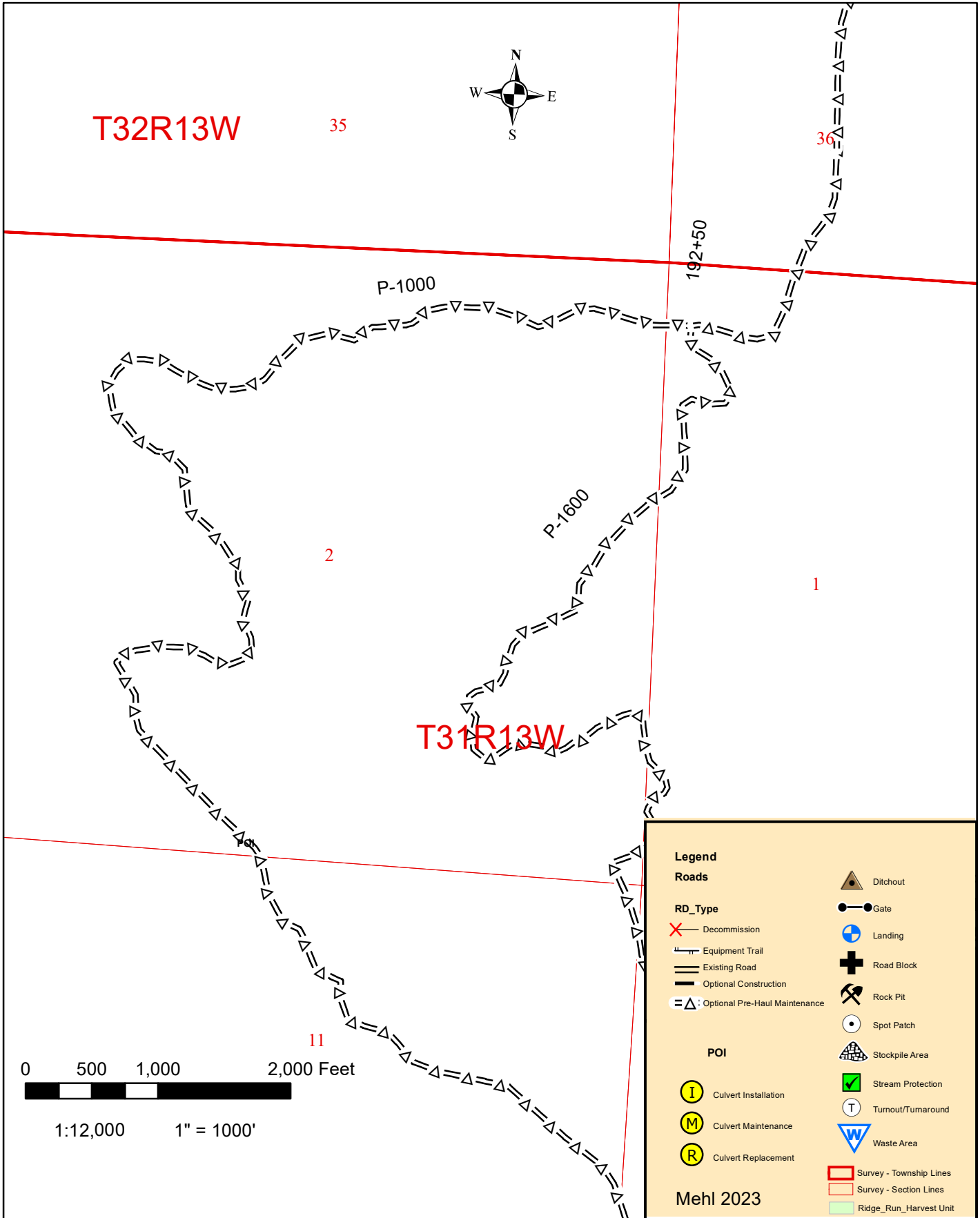
- Survey - Township Lines
- Survey - Section Lines
- Ridge_Run_Harvest Unit

Mehl 2023

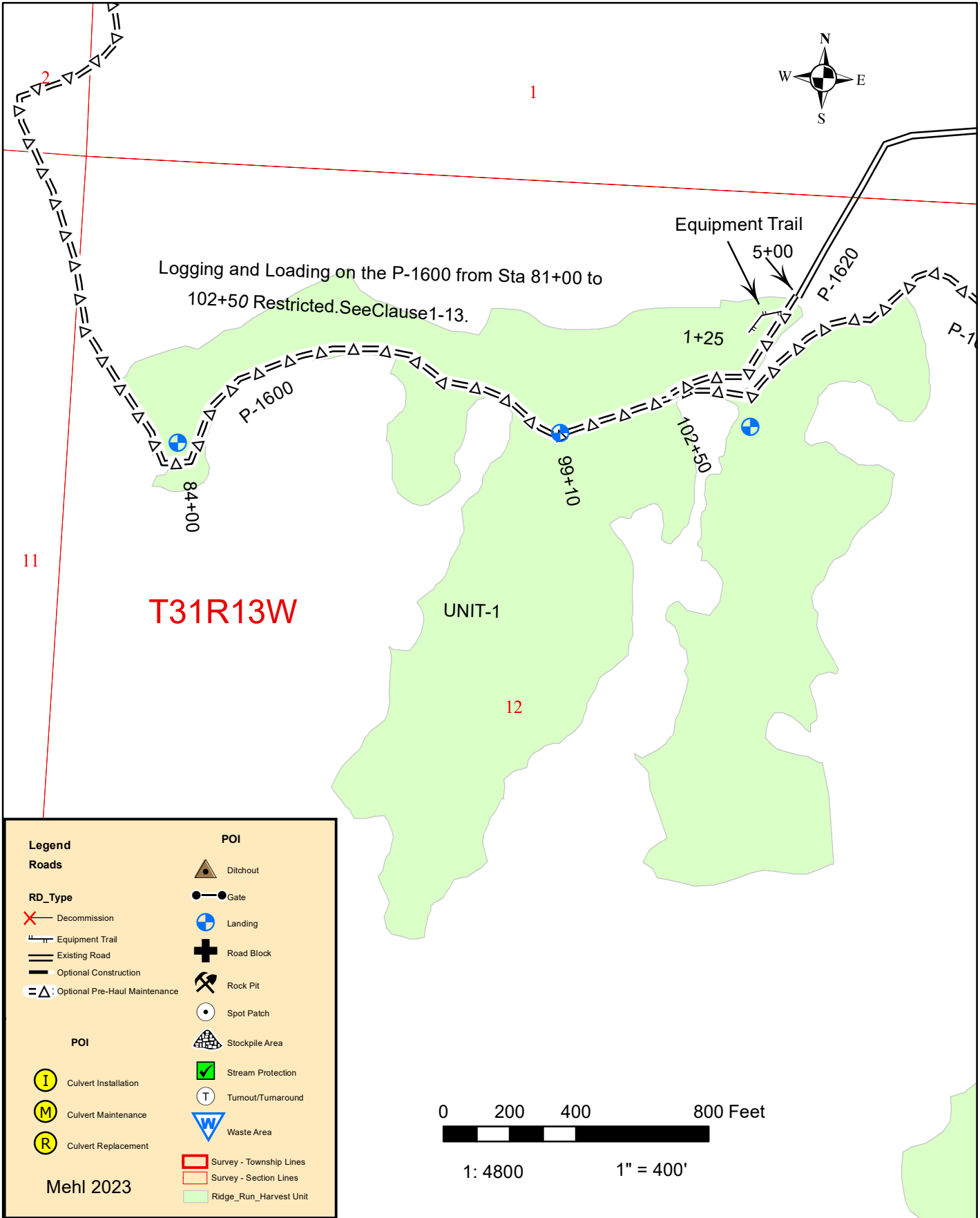
0 500 1,000 2,000 Feet

1:12,000 1" = 1000'

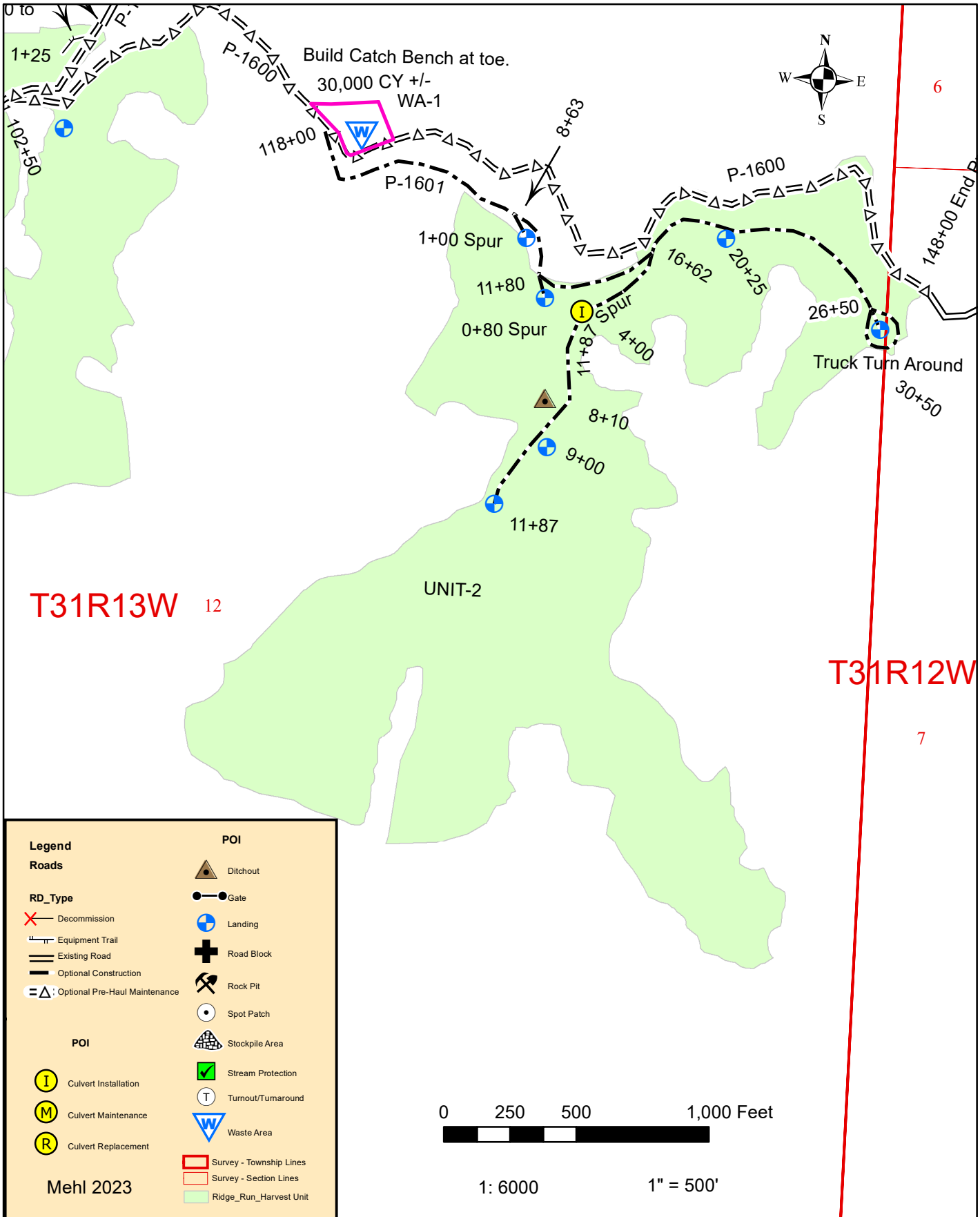
RIDGE RUN PRE-HAUL MAINTENANCE



RIDGE RUN UNIT- 1

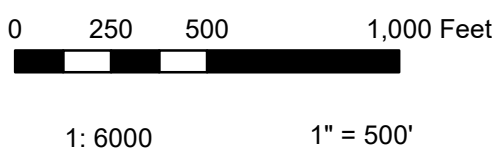


RIDGE RUN UNIT-2

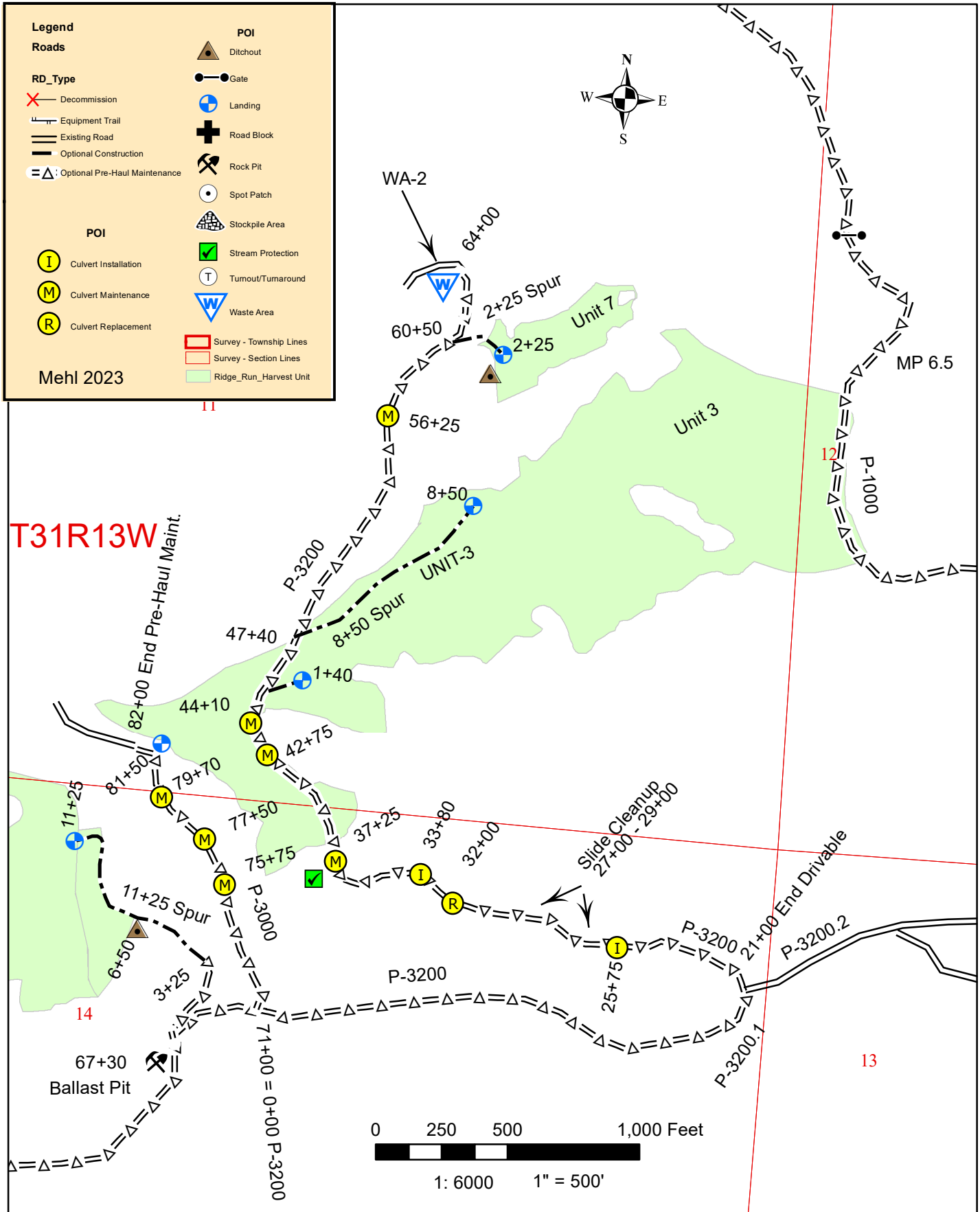


Legend	
Roads	
RD_Type	
	Decommission
	Equipment Trail
	Existing Road
	Optional Construction
	Optional Pre-Haul Maintenance
POI	
	Culvert Installation
	Culvert Maintenance
	Culvert Replacement
	Ditchout
	Gate
	Landing
	Road Block
	Rock Pit
	Spot Patch
	Stockpile Area
	Stream Protection
	Turnout/Turnaround
	Waste Area
	Survey - Township Lines
	Survey - Section Lines
	Ridge_Run_Harvest Unit

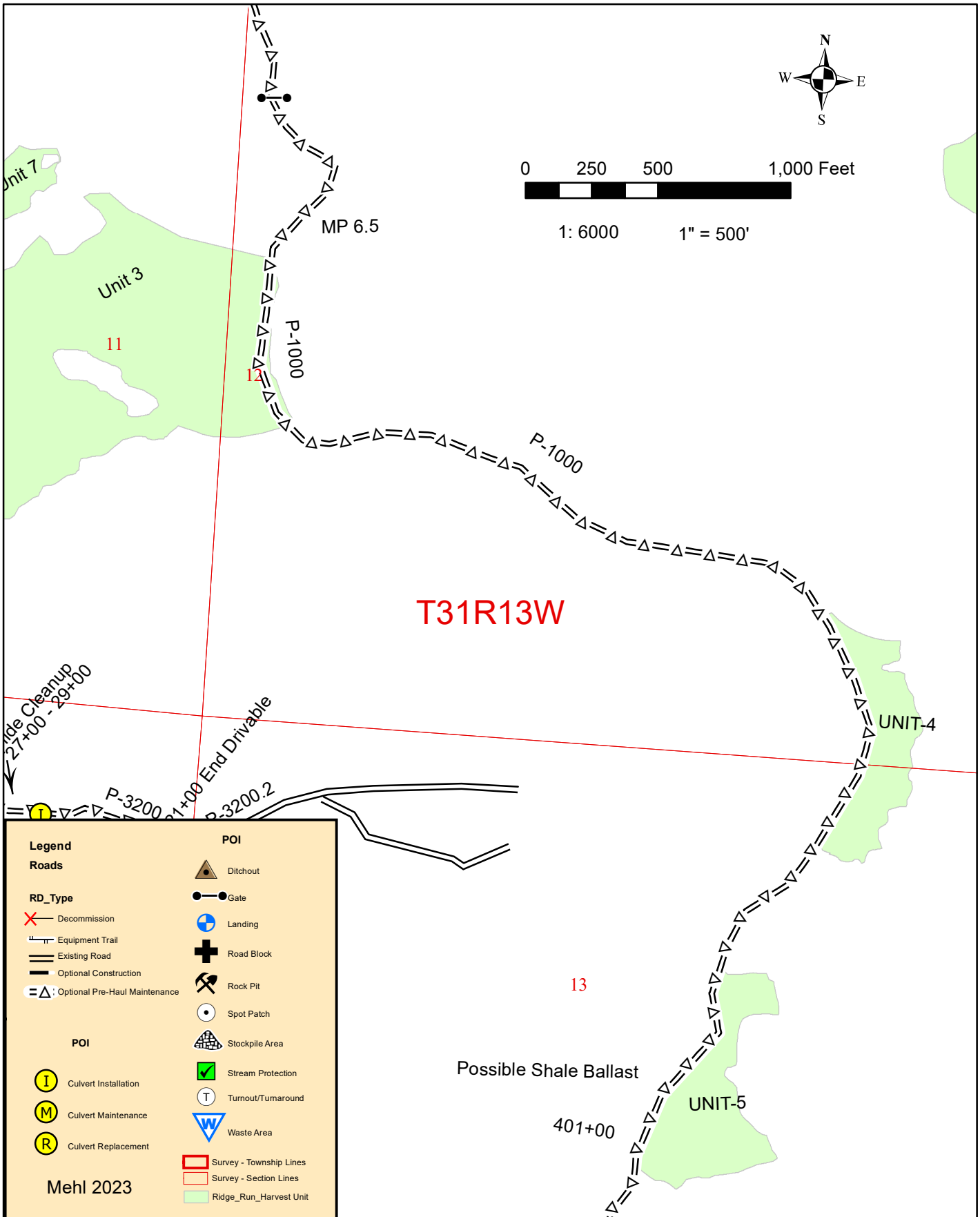
Mehl 2023



RIDGE RUN UNITS 3 & 7



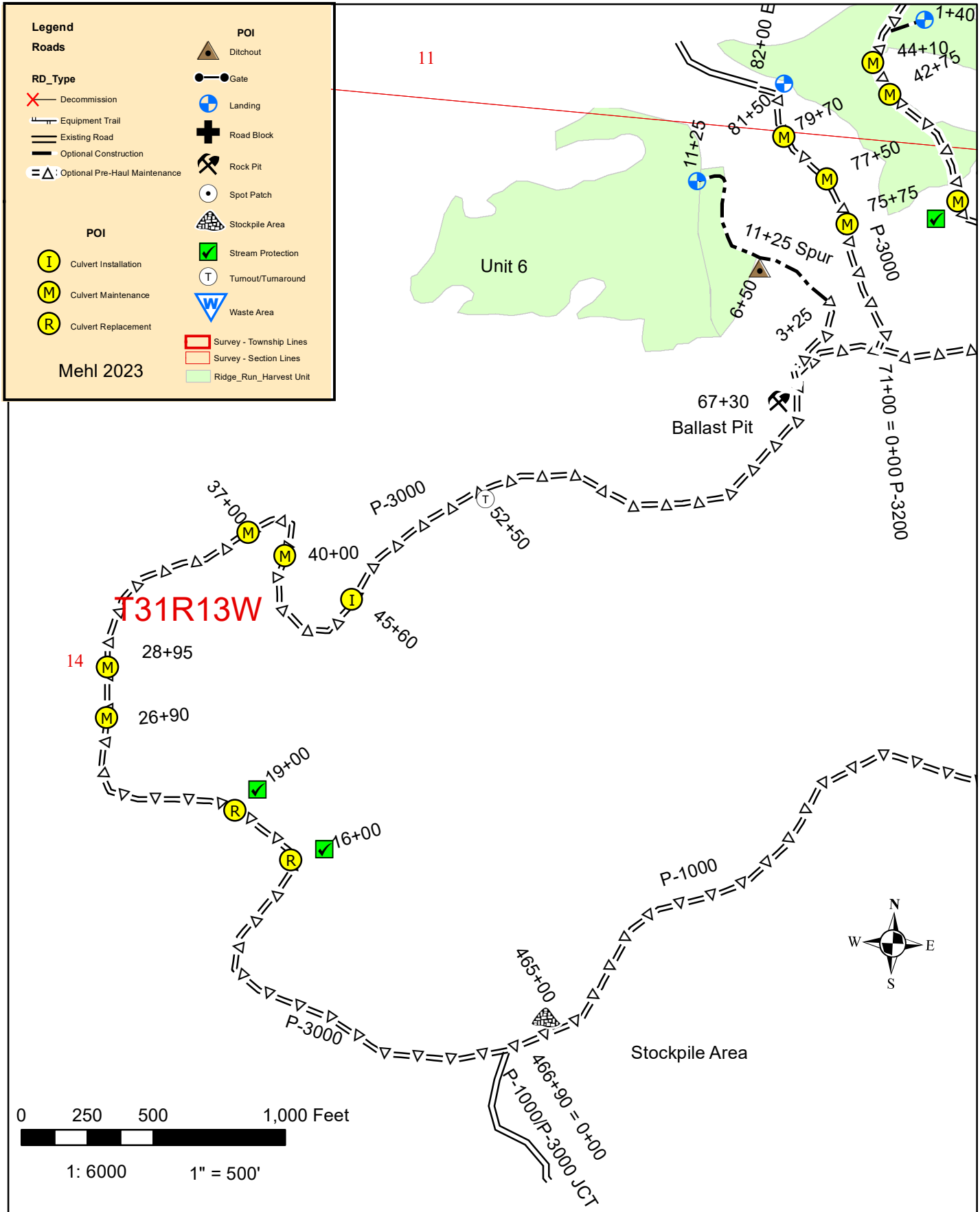
RIDGE RUN UNITS 4 & 5



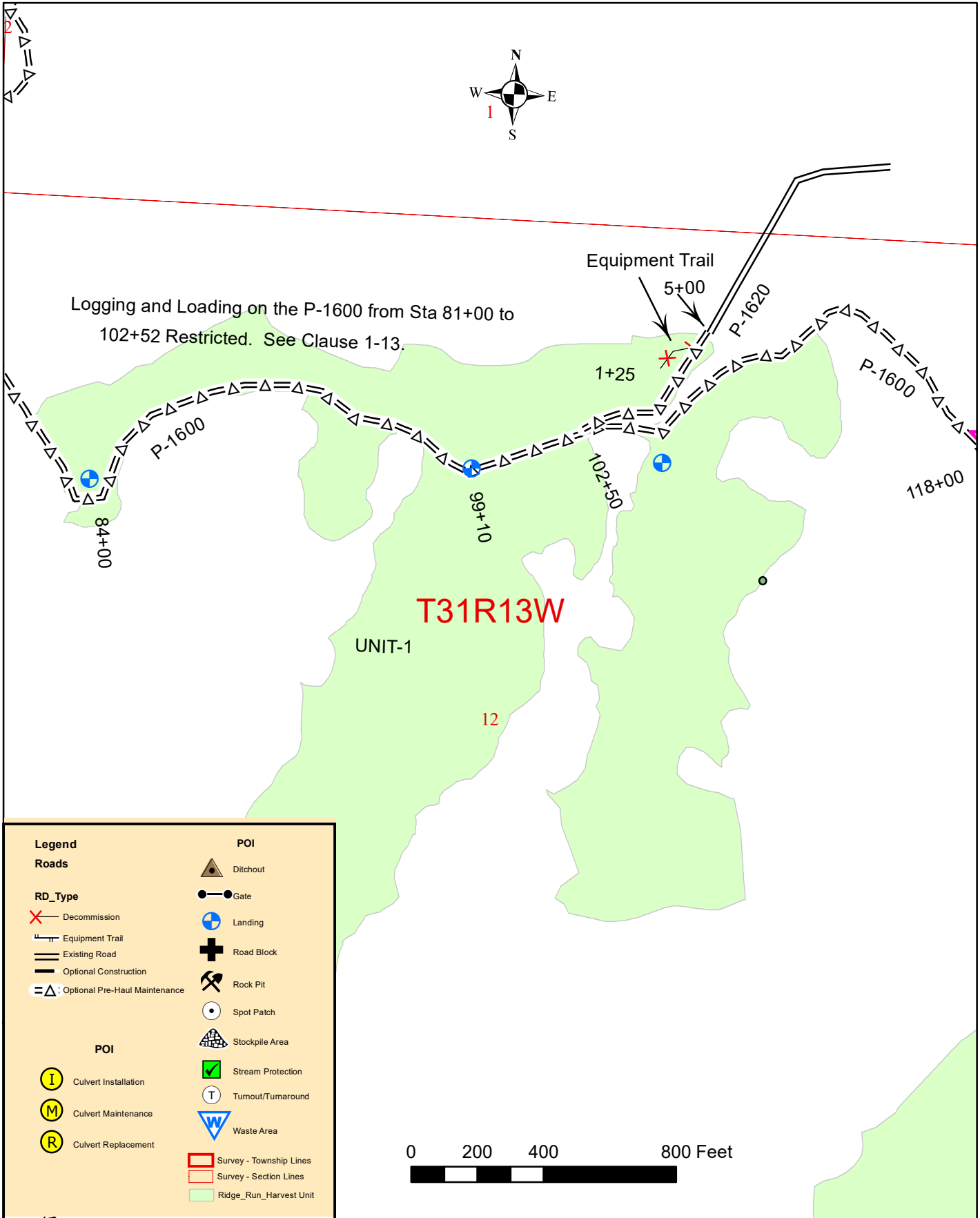
Legend	
Roads	
	Decommission
	Equipment Trail
	Existing Road
	Optional Construction
	Optional Pre-Haul Maintenance
POI	
	Culvert Installation
	Culvert Maintenance
	Culvert Replacement
	Ditchout
	Gate
	Landing
	Road Block
	Rock Pit
	Spot Patch
	Stockpile Area
	Stream Protection
	Turnout/Turnaround
	Waste Area
	Survey - Township Lines
	Survey - Section Lines
	Ridge_Run_Harvest Unit

Mehl 2023

RIDGE RUN UNIT - 6



RIDGE RUN EQUIPMENT TRAIL DECOMMISSION



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>
P-1000	466.90	Pre-Haul Maintenance
P-3000	82.00	Pre-Haul Maintenance
P-3200	64.00	Pre-Haul Maintenance
8+50 Spur	8.50	Optional Construction
1+40 Spur	1.40	Optional Construction
2+25 Spur	2.25	Optional Construction
11+25 Spur	3.25	Pre-Haul Maintenance
11+25 Spur	8.00	Optional Construction
P-1600	148.00	Pre-Haul Maintenance
P-1601	30.50	Optional Construction
1+00 Spur	1.00	Optional Construction
0+80 Spur	0.80	Optional Construction
11+87 Spur	11.87	Optional Construction
P-1620	5.00	Pre-Haul Maintenance
Equipment Trail	1.25	Optional Construction

0-4 CONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
8+50 Spur	0+00 – 8+50	See Below
1+40 Spur	0+00 – 1+40	See Below
2+25 Spur	0+00 – 2+25	See Below
11+25 Spur	3+25 – 11+25	See Below
P-1601	0+00 – 30+50	See Below
1+00 Spur	0+00 – 1+00	See Below
0+80 Spur	0+00 – 0+80	See Below
11+87 Spur	0+00 – 11+87	See Below
Equipment Trail	0+00 – 1+25	See Below
Totals:	65.57 Sta	

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.

0-6 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>
P-1000	0+00 – 466+90	Grade and shape road in accordance with Clause 2-5. Maintain erosion control structures in accordance with Clause 2-8 and as directed by Contract Administrator.
P-3000	0+00 – 82+00	Brush road in accordance with Clause 3-1 and Brushing Detail. Install/replace/maintain culverts in accordance with Culvert List. Grade and shape road in accordance with Clause 2-5. Install sediment control structures in accordance with 8-1 and 2-7. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
P-3200	0+00 – 64+00	Brush road in accordance with Clause 3-1 and Brushing Detail. Install/replace/maintain culverts in accordance with Culvert List. Grade and shape road in accordance with Clause 2-5. Install sediment control structures in accordance with 8-1 and 2-7. Clean slide debris and endhaul to stable location. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
11+25 Spur	0+00 – 3+25	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5.
P-1600	0+00 – 148+00	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Clean culverts in accordance to Clause 2-6. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
P-1620	0+00 – 5+00	Grade and shape road in accordance with Clause 2-5.
Total:	769.15 Sta	

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.

0-9 DECOMMISSIONING

This project includes, but is not limited to decommissioning listed in Clause 9-20 ROAD DECOMMISSIONING.

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.

1-7 TEMPORARY ROAD CLOSURE

The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before the closure of any road. Road work shall not close any road for more than 3 consecutive days.

<u>Road</u>	<u>Number of Allowable Closed Days</u>
P-1600 (81+00 – 102+50)	3 Months, see Clause 1-13

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.

1-12 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.

1-13 LOG LOADING

Loading and blocking the P-1600 from stations 81+00 to 102+50 is limited to a 3 month operating window from May 1 to October 31 2024. Two weeks notice is required before closing the road.

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.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
11+87 Spur	0+00 – 11+87	Centerline and slope stakes
P-1601	0+00 –30+50	Centerline and slope stakes
1+00 Spur	0+00 – 1+00	Construction Centerline
0+80 Spur	0+00 – 0+80	Construction Centerline

Equipment Trail	0+00 – 1+25	Construction Centerline
1+40 Spur	0+00 – 1+40	Construction Centerline
8+50 Spur	0+00 – 8+50	Construction Centerline
2+25 Spur	0+00 – 2+25	Construction Centerline
11+25 Spur	0+00 – 11+25	Construction Centerline

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

1-27 LIMITED OPERATING PERIOD FOR MARBLED MURRELET

On the following road(s), any road work, right-of-way timber falling and yarding, rock pit operations, or operation of heavy equipment must be performed during the limited operating period if implemented during the nesting season. The limited operating period runs from two hours after sunrise to two hours before sunset between April 1 through September 23. This restriction does not apply to the hauling of timber, rock, or equipment.

<u>Road</u>	<u>Stations</u>
P-1000	78+90 – 82+75, 160+40 – 180+65

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.

1-33 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>
Mary Clark 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 kept level with the surface of the paved roads at all times.

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>
P-1000	0+00 – 466+90
P-1600	0+00 – 102+50
P-1620	0+00 – 5+00
Sappho LTSP Main	0+00 – 5+00
Mary Clark Pit Road	All

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain the following road(s) in a condition that will allow the passage of light administrative vehicles.

<u>Road</u>	<u>Stations</u>
P-1000	0+00 – 466+90

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>
P-1000	0+00 – 466+90	Grade, shape, compact
P-1600	0+00 – 148+00	Grade, shape, compact
P-3000	0+00 – 71+00	Grade, shape, compact
P-3200	0+00 – 21+00	Grade, shape, compact
11+25 Spur	0+00 -3+25	Grade, shape, compact
P-1620	0+00 – 5+00	Grade, shape, compact

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>
P-1600	As Directed by C/A
P-3000	See culvert list or as directed by C/A
P-3200	See culvert list or as directed by C/A

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. Ditchlines, 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>
P-3200	27+00 – 29+00	L	
P-3200	36+00 – 37+00	L	

2-8 MAINTAINING EROSION CONTROL STRUCTURES

On the following road(s), Purchaser shall clean and maintain all erosion control devices. Work shall be completed before the start of timber haul and shall be done in accordance with all pertaining clauses contained in this Road Plan. Excavated material shall be disposed of in accordance with Clause 4-35 through Clause 4-38.

<u>Road</u>	<u>Stations</u>	<u>Work Needed</u>
P-1000	0+00 – 466+90	As Directed by C/A

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. Roads to be shaped in accordance with Typical Sheet specifications.

<u>Road</u>	<u>Stations</u>
P-3000	71+00 – 81+50
P-3200	21+00 – 64+00

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>
P-1600	102+50 – 148+00
P-3000	0+00 – 71+00
P-3200	0+00 – 21+00
11+25 Spur	0+00 -3+25

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.

3-7 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.

3-12 STUMP PLACEMENT
Grubbed stumps shall be placed outside of the clearing limits, as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps shall be positioned upright with root wads in contact with the forest floor and on stable locations.

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>
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P-1600	WA-1	118+00
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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>
P-1601	As needed/Directed	WA-1
11+87 Spur	0+00 – 8+00	WA-1

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>
11+87 Spur	0+00 – 8+00
P-1601	As needed/directed

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.

4-9 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.

4-10 DRILL AND SHOOT FOR ROAD PRISM EXCAVATION

Rock drilling and shooting for road excavation shall meet the following specifications:

- Initial Drilling will be done using horizontal “lifter” methodology. Drill length to be limited to 30’ or less per shot unless approved by District Engineer.
- Ditch shots and rock point shots to be limited to one steel in length.
- Shots to be loaded to minimize fly rock and adjoining timber.
- Unstable slopes and other resources need to be protected
- The Purchaser shall notify the Contract Administrator a minimum of 3 working days before blasting operations.
- The Purchaser shall submit an informational drilling and shooting plan to the Contract Administrator 5 working days before any drilling (Form #M-126PAC).
- All operations shall be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.

4-12 FULL BENCH CONSTRUCTION

On the following road(s), and where side slopes exceed 45%, Purchaser shall use full bench construction for the entire subgrade width except as construction staked or designed. If designated, Purchaser shall end haul waste material to the location specified in Clause 4-37 WASTE AREA LOCATION.

<u>Road</u>	<u>Full Bench Location</u>	<u>Comments</u>
P-1601 Spur	As staked	End haul to WA-1
11+87 Spur	0+00 – 8+10	End haul to WA-1
2+25 Spur	0+00 – 2+25	End haul to WA-2

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>
11+87 Spur	8+10 R
2+25 Spur	2+25 R
11+25 Spur	6+50 L

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</u>	<u>Waste Area Permitted Vol.</u>
WA-1	P-1601	14,400 CY	30,000 CY
WA-1	11+87 Spur	15,200 CY	30,000 CY
WA-2	P-2300/2+25 Spur	500 CY	1,000 CY
Total Estimated Waste:		30,100 CY	

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.

4-49 BORROW SOURCE

Borrow may be obtained from the listed borrow source(s). Development of the borrow source shall be in accordance with Borrow Source Detail.

<u>Source</u>	<u>Location</u>	<u>Yards</u>
Shale Ballast	67+30 P-3000	1,000
P-1601	Road Prism	2500
11+87 Spur	Road Prism	2000

4-50 BORROW APPLICATION

Borrow shall be applied in accordance with quantities shown below. Borrow shall be spread, shaped and compacted full width concurrent with hauling operations.

<u>Road</u>	<u>Stations</u>	<u>Cubic Yards</u>	<u>Type / Comments</u>
11+25 Spur	3+25 – 11+25	610	Ballast lift
1+40 Spur	0+00 – 1+40	150	Ballast lift
8+50 Spur	0+00 - 8+50	650	Ballast lift
2+25 Spur	0+00 – 2+25	210	Ballast lift
P-1601	0+00 – 30+50	2,220	Ballast lift
1+00 Spur	0+00 – 1+00	120	Ballast lift
0+80 Spur	0+00 – 0+80	120	Ballast lift
11+87 Spur	0+00 – 11+87	950	Ballast lift
	Total:	5030 CY	

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.

SECTION 5 – DRAINAGE

5-4 PUNCHEON RESTRICTED

At no time shall puncheon be used in the subgrade, unless approved by the Contract Administrator.

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>Size</u>
As Directed	(2) 18" x 30'
By C/A	

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 $\frac{3}{16}$ " angle iron, and fastened securely to the posts with No. 10 galvanized smooth wire, or bolted using minimum $\frac{5}{16}$ " bolts and 2 washers per bolt, in accordance with the Culvert Installation Typical Details Page.

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>
P-3000	16+00	LL
P-3000	19+00	LL

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 Sec. 32	Pitrun, 1 ½" Minus, Oversize
67+30 Pit	T31N R13W Sec 14	Shale Ballast

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 600 cubic yards of 1 ½" minus crushed rock, unless authorized by the Contract Administrator.

<u>Source</u>	<u>Location</u>	<u>Quantity (yd³)</u>
1 ½" Crushed	Mary Clark Pit	400 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.

SUBSECTION ROCK SOURCE DEVELOPMENT

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

All rock source development and use shall be in accordance with a written Rock Source Development and Reclamation Plan prepared by the State and included in this Road Plan. Rock source operations shall be conducted as directed by the Contract Administrator and in accordance with the plan. Upon completion of operations, the rock source shall be left in the condition specified in the Rock Source Development and Reclamation Plan, and approved in writing by the Contract Administrator. The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the rock source.

6-12 ROCK SOURCE SPECIFICATIONS

Rock sources shall be in accordance with the following unless otherwise specified in Rock Source Development and reclamation plan:

- Pit walls shall not be undermined or over-steepened. The maximum slope of the walls shall be consistent with recognized engineering standards for the type of material being excavated in accordance with the following table:

Material	Maximum Slope Ratio (Horiz.:Vert.)	Maximum Slope Percent
Sand	2:1	50
Gravel	1.5:1	67
Common Earth	1:1	100
Fractured Rock	0.5:1	200
Solid Rock	0:1	vertical

- Pit walls shall be maintained in a condition to minimize the possibility of the walls sliding or failing.
- The width of pit benches shall be a minimum of 1.5 times the maximum length of the largest machine used.
- The surface of pit floors and benches shall be uniform and free-draining at a minimum 2% outslope gradient.
- All operations shall be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- Block all vehicle access to the top of the pit faces.

6-14 DRILL AND SHOOT

Rock drilling and shooting for road excavation shall meet the following specifications:

- Initial Drilling will be done using horizontal “lifter” methodology. Drill length to be limited to 30’ or less per shot unless approved by District Engineer.
- Ditch shots and rock point shots to be limited to one steel in length.
- Shots to be loaded to minimize fly rock and adjoining timber.
- Unstable slopes and other resources need to be protected
- The Purchaser shall notify the Contract Administrator a minimum of 3 working days before blasting operations.
- The Purchaser shall submit an informational drilling and shooting plan to the Contract Administrator 5 working days before any drilling (Form #M-126PAC).
- All operations shall be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.

Rock Pit Drilling

- Oversize material remaining in the rock source at the conclusion of the timber sale shall not exceed 5% of the total volume mined in that source.
- Oversize material is defined as rock fragments larger than five feet in any dimension.
- Oversized rock that exceeds the maximum allowable amount shall be shot or broken up.

- The Purchaser shall notify the Contract Administrator a minimum of 3 working days before blasting operations.
- The Purchaser shall submit an informational drilling and shooting plan to the Contract Administrator 10 working days before any drilling (Form #M-126PAC).
- All operations shall be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.

6-16 TECHNICAL SPECIFICATIONS FOR ROCK PITS

DRILLING

The Purchaser shall drill in accordance to an approved Shot Plan. Drill depth shall not extend more than 5 feet below existing pit floor. The State’s Engineer and Purchaser shall jointly measure and determine drill depths, hole spacing and pattern and must be approved prior to loading explosives. During drilling operation, drill operator shall keep a bore log which includes the depth and location of each hole drilled. The State’s Engineer may ask to see the bore log during and after the drilling process has completed.

BLASTING

The Purchaser shall furnish and load appropriate explosives, detonators, and ignition sources in accordance to all State and Federal laws and in accordance to an approved Shot Plan.

DRILLING AND SHOOTING PLAN “SHOT PLAN”

The Purchaser shall submit a written drilling and shooting plan, including drawings, to the State’s Engineer, which must meet the approval of the State’s Engineer prior to the start of the drilling operation. The plan and drawing(s) shall include the following proposals: drill hole diameter, drill hole spacing, drill hole pattern, drill hole depth, any stemming depths, type and depth of explosive including amount per drill hole, detonator and ignition type, and proposed delay pattern. Any adjustment or modifications to the proposals during operations must be noted and resubmitted prior to loading of explosives.

WEATHER LIMITATIONS

When, in the opinion of the State’s Engineer, the weather is such that satisfactory results cannot be obtained in any phase of operation, Purchaser shall suspend operations until the weather is favorable. Before and during any suspension, Purchaser shall protect the work from damage or deterioration.

SUBSECTION ROCK GRADATIONS

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.

6-50 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> 20% / 90%	<u>Weight Range</u> 300 lbs. to 1 ton	<u>Size Range</u> 12"- 36"
6-52 OVERSIZE			
% Passing 8" square sieve		100%	
% Passing 4" square sieve		0%	

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

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 Clause 6-67.

<u>Rock Source</u>	<u>Rock Size</u>	<u>Quantity (c.y.)</u>	<u>Stockpile Location</u>
Mary Clark	Any	Per rock list	P-1000 Sta 46+50 or 465+00

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.

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>
P-1000	0+00 – 466+90	200 yd ³
P-3000	0+00 – 71+00	200 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.

6-78 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 SIGNS

7-2 SIGN INSTALLATION (NON-HIGHWAY)

The Purchaser shall be responsible for the purchase, installation, and maintenance of the following road signs. Signs shall be installed before rock haul. Signs shall be at least 2 feet in any direction, and shall be orange with black lettering.

<u>Road</u>	<u>Station</u>	<u>Sign</u>
P-1000	10+00	CB Channel

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.

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

On the following road(s), Purchaser shall install sediment control structures as listed below.

<u>Road</u>	<u>Stations</u>	<u>Comments</u>
P-3000	15+50 – 16+50	Silt fence L & R
P-3000	18+50 – 19+50	Silt fence L & R
P-3200	37+25	Add Settling Ponds

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
P-1000	0+00 – 466+90	Apply post haul rock as per Clause 6-72.
P-3000	0+00 – 71+00	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.

SUBSECTION DECOMMISSIONING AND ABANDONMENT

9-20 ROAD DECOMMISSIONING

The following road(s) shall be decommissioned by the Purchaser before the termination of this contract.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
Equipment Trail	All	Light Decommissioning

9-22 LIGHT DECOMMISSIONING

Decommissioning shall consist of:

1. Remove all culverts. Resulting back slopes shall be 1:1 or shallower for cross drains and 1.5:1, or as specified in approved drawings, for all live stream culvert removals. Material removed shall be placed on the roadbed and compacted, with slopes of 2:1 or shallower, or end-hauled to designated waste areas. Culverts removed shall become the property of the Purchaser and removed from State land.

2. Construct non-drivable water bars as directed by the Contract Administrator. On grades in excess of 3%, non-drivable water bars shall be skewed 30 degrees from the perpendicular of the road centerline.
3. Restore all ditchouts to drain water.
4. Repair or construct ditchlines.
5. Remove any berms, except as directed.
6. Restoration of natural stream channels across road prism, as directed by the Contract Administrator.
7. Removing all fill material as approved by the Contract Administrator.
8. All material from fill removals, culvert removals, and bridge removals shall be placed on roadbed and compacted, except that material listed in Clause 4-37.
9. Purchaser shall furnish and apply grass seed to all areas of exposed soil, including but not limited to: water bars, waste piles, and culvert removal sites. Grass seed shall be applied at a rate of 60 pounds per acre.
10. Block road to vehicular traffic using logs, slash, and stumps, as directed by the Contract Administrator.

SECTION 10 MATERIALS

SUBSECTION GEOTEXTILES

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.

10-20 FLUME AND DOWNSPOUT

Downspouts and flumes shall meet the AASHTO specification designated for the culvert. Plastic downspouts and flumes 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

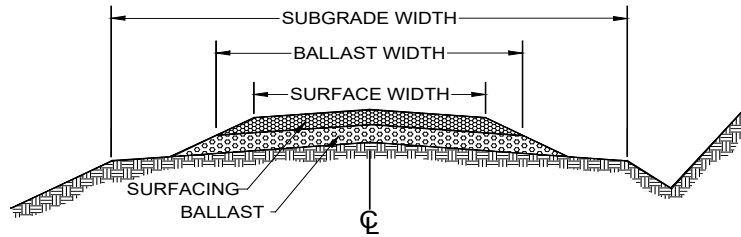
Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands.

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 42"	14 (0.079")	2 2/3" X 1/2"
48" to 54"	12	5" X 1"
60" +	10	5" X 1"

ROCK LIST SHEET

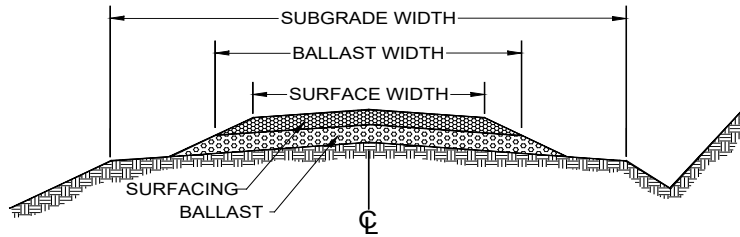


SECTION VIEW

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 1-1/2" minus, 5: Mary Clark Oversize, 6: Native Ballast

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)
P-1000															
Posthaul	0+00	466+90							2	14			200		
P-3000															
Misc	0+00	71+00							2	14			100		
Lift	71+00	82+00		1	14	6	35	400							
Culvert	16+00			1				100						5	5
Culvert	19+00			1				100						5	1
Culvert	45+60			1				20						5	1
Posthaul	0+00	71+00							2	14			200		
P-3200															
Lift	21+00	60+50		1	14	6	35	1380							
Culvert	25+75			1				20							
Culvert	32+00			1				20							
Culvert	33+80			1				40						5	5
8+50 Spur															
Lift	0+00	8+50	17	6	14	12	70	600							
Lift	0+00	8+50		1	12	6	35	300							
Landing	8+50			6				50							
Totals:				Pit Run: 2,430 CY, Native Ballast 650 CY						Crushed 500 CY				12 CY	

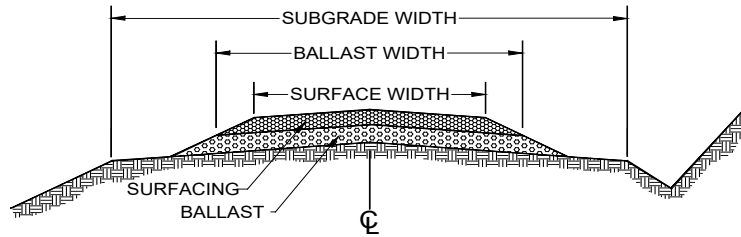
ROCK LIST SHEET CONTINUED



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6. Rock sources= 1: Mary Clark Pitrun, 2: Mary Clark 1-1/2" minus, 5: Mary Clark Oversize, 6: Native Ballast

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	Oversize/Rip Rap Quantity(yd³)	
2+25 Spur																
Lift	0+00	2+25	17	6	14	12	70	160								
Lift	0+00	2+25		1	12	6	35	80								
Landing	2+25			6				50								
11+25 Spur																
Lift	3+25	11+25	17	6	14	12	70	560								
Lift	3+25	11+25		1	12	6	35	280								
Landing	11+25			6				50								
P-1600																
Misc	0+00	148+00							2				100			
P-1601																
Lift	0+00	30+50	17	6	14	12	70	2140								
Lift	0+00	30+50		1	12	6	35	1070								
Landing	20+25			6				50								
Landing	30+50			6				50								
Totals:	Native Ballast: 3,060 CY, Pitrun: 1,430 CY								Crushed:100							

ROCK LIST SHEET CONTINUED



SECTION VIEW

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6. Rock sources= 1: Mary Clark Pitrun, 2: Mary Clark 1-1/2" minus, 5: Mary Clark Oversize, 6: Native Ballast

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)
11+87 Spur															
Lift	0+00	11+87	17	6	14	12	70	830							
Lift	0+00	11+87		1	12	6	35	420							
Culvert	4+00			1				20						5	2
Landing	9+00			6				50							
Landing	11+87			6				50							
1+00 Spur															
Lift	0+00	1+00	17	6	14	12	70	70							
	0+00	0+75		1	12	6	35	40							
Landing	1+00			6				50							
0+80 Spur															
Lift	0+00	0+80	17	6	14	12	80	70							
Lift	0+00	0+80		1	12	6	35	30							
Landing	0+80			6				50							
1+40 Spur															
Lift	0+00	1+40	17	6	14	12	70	100							
Lift	0+00	1+40		1	12	6	35	50							
Landing	1+40			6				50							
Totals:															
Native Ballast: 1,320 CY, Pit Run: 660 CY														2 CY	

ROCK LIST SHEET GRAND TOTAL

Source	Quantity (yd ³)
1: Native Ballast	5,030
2: Mary Clark Pit Run	4,370
3: Mary Clark Pit 1 ½" Crushed	600
4: Mary Clark Oversize	14

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
P-3000*	16+00	48	80				5	PR	Ns pipe replacement
P-3000*	19+00	24	40				1	PR	Ns Pipe replacement
P-3000	26+90						1		Culvert maint, add ED to outlet, clean inlet
P-3000	28+95								Culvert Maint, clean inlet
P-3000	37+00								Culvert Maint, clean inlet
P-3000	40+00								Culvert Maint, clean inlet
P-3000	45+60	18	30					PR	New Cross Drain Installation
P-3000	75+75								Culvert Maint, clean inlet
P-3000	77+50								Culvert Maint, clean inlet
P-3000	79+70								Culvert Maint, clean inlet
P-3200	25+75	18	30					PR	New Cross Drain Installation
P-3200	32+00	18	30	20				PR	Replace existing cross drain, add flume
P-3200	33+80	18	40				5	PR	New Cross Drain Installation
P-3200	37+25								Culvert Maint, clean inlet, add settling ponds.
P-3200	42+75								Culvert Maint, clean inlet
P-3200	44+10								Culvert Maint, clean inlet
P-3200	56+25								Culvert Maint, clean inlet
11+87 Spur	4+00	18	30				2	PR	New Cross Drain Installation
Contingency		18	30					PR	To be installed as directed by C/A
Contingency		18	30					PR	To be installed as directed by C/A

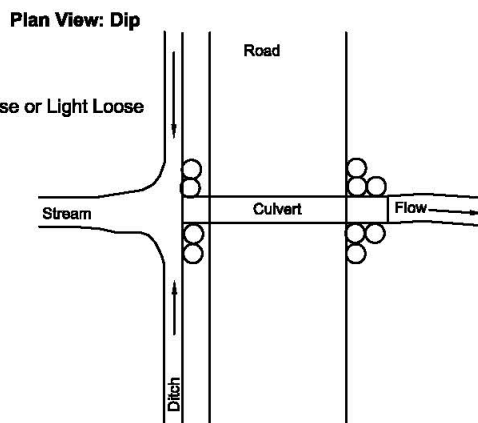
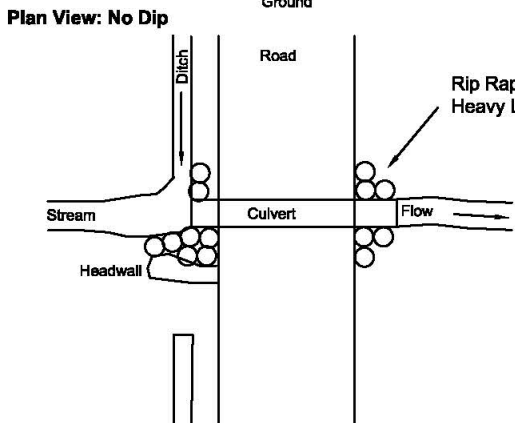
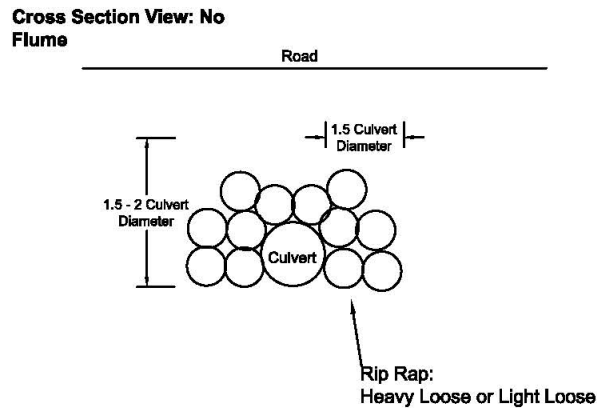
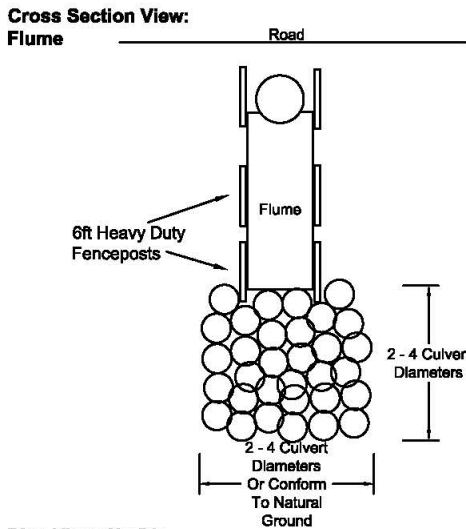
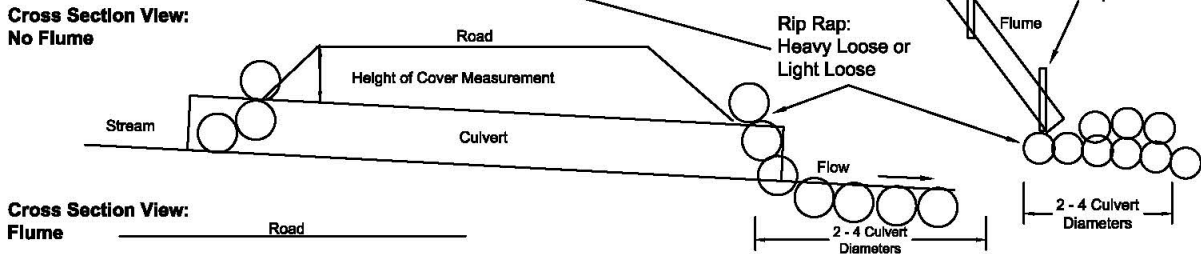
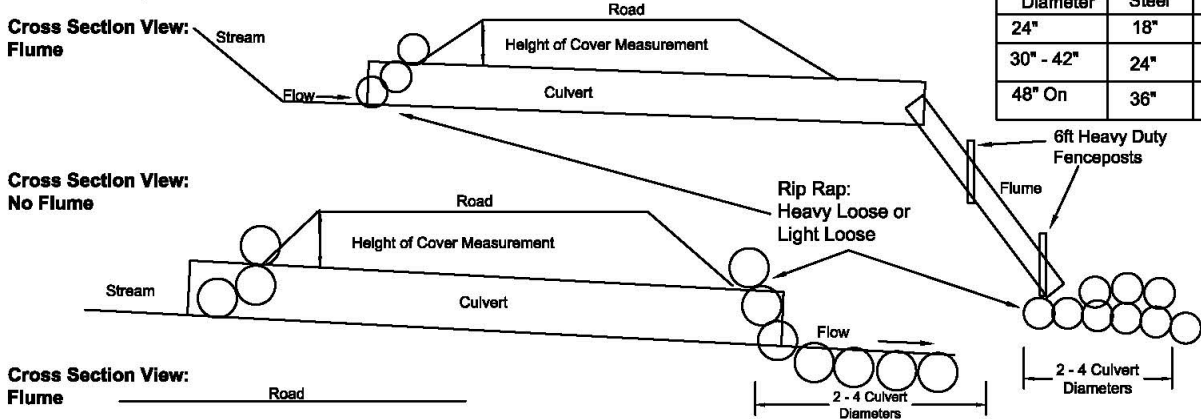
COMPACTION LIST

Road	Stations	Type	Max Depth per Lift (In)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
Construction	All	Culvert Backfills	6	Jumping Jack	N/A	3	N/A
Construction	All	Subgrade, Embankment	6	Vibratory Smooth Drum Roller	6,000	3	3
Construction	All	Rock Placement	6				
Pre-haul Maintenance	All	Existing Pre-haul Surface	6				
Pre-haul Maintenance, Post-haul Maintenance	All	Rock Lifts	6				
Pre-haul Maintenance	All	Culvert Backfills	6	Jumping Jack	N/A	3	N/A
Waste Areas	See Clause 4-37	Waste Material	24	Excavation Equipment	See Clause 4-39		

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.

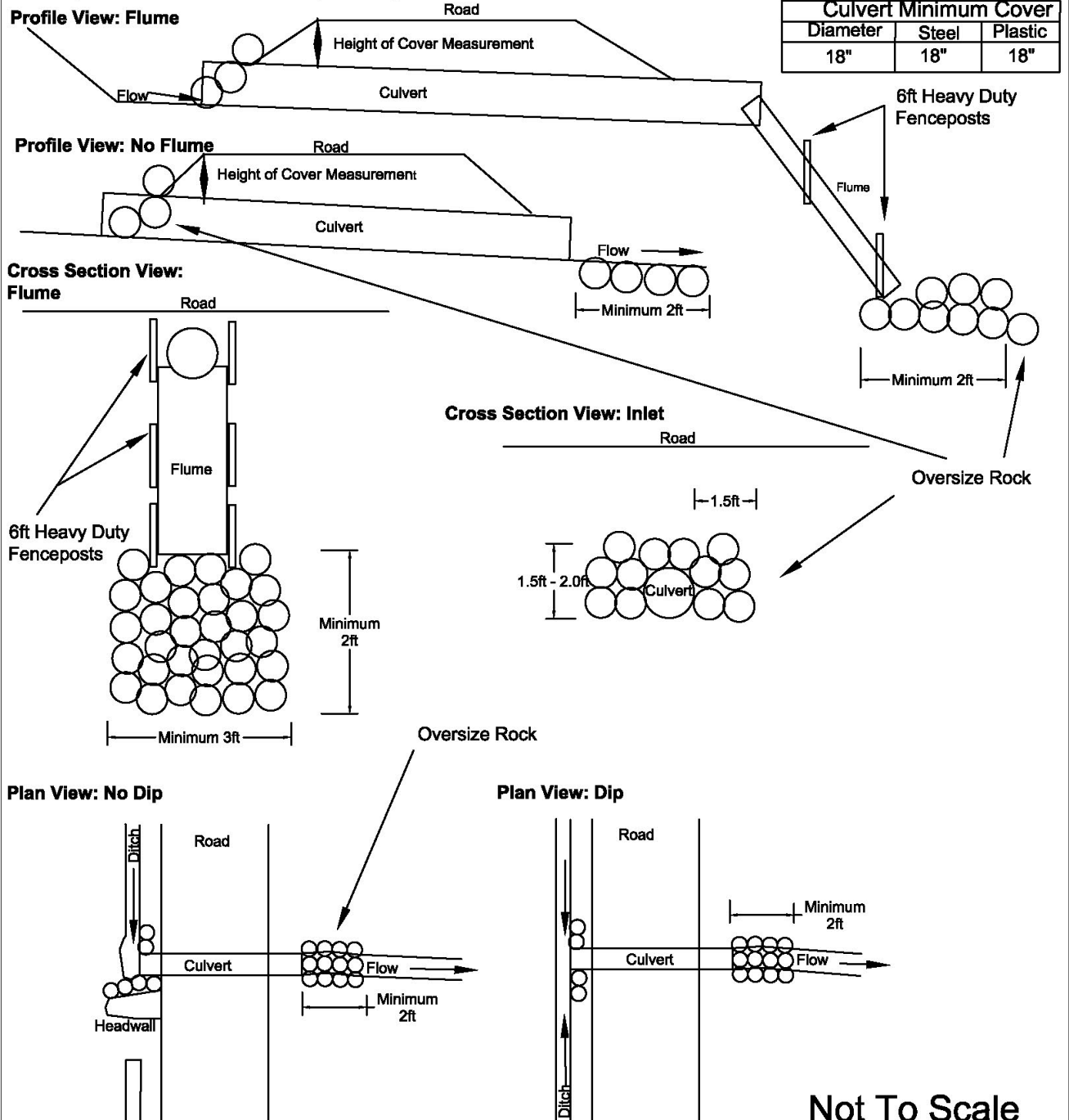
Culvert Minimum Cover		
Diameter	Steel	Plastic
24"	18"	24"
30" - 42"	24"	24"
48" On	36"	36"



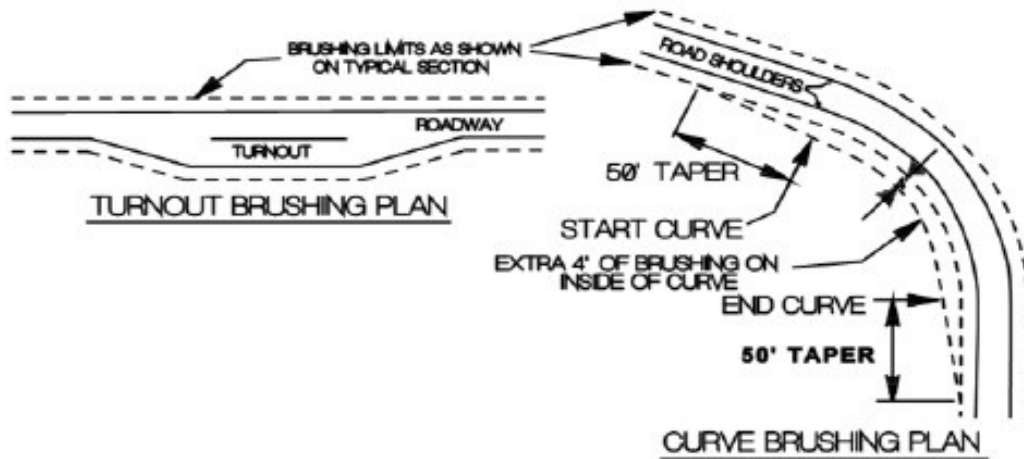
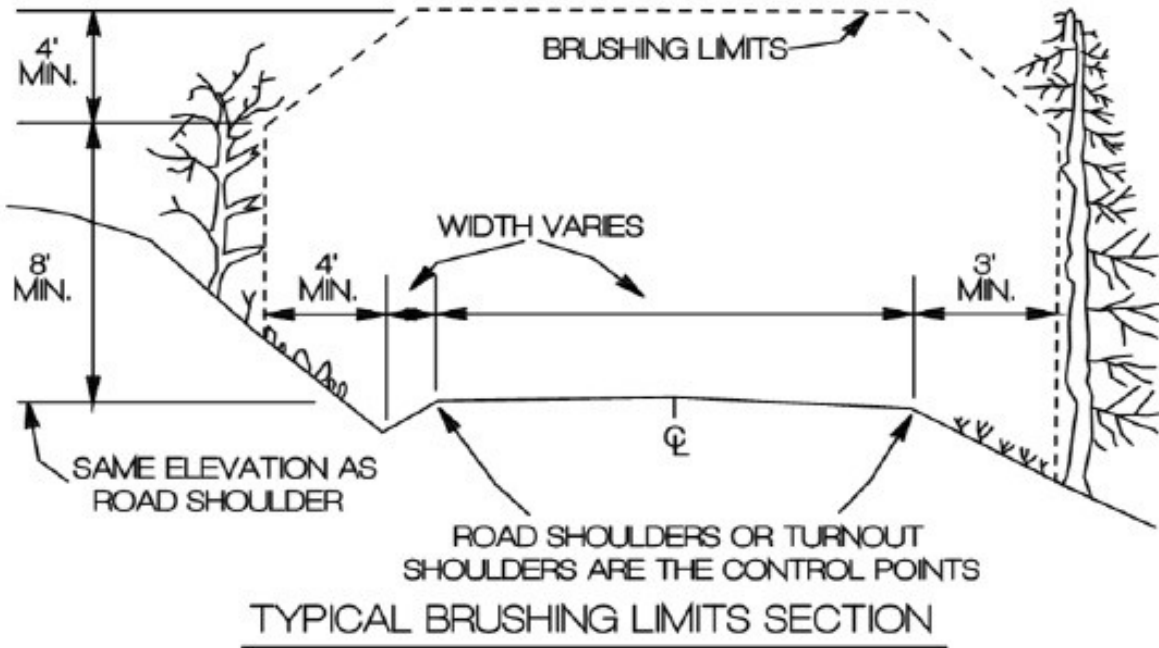
Not To Scale

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..

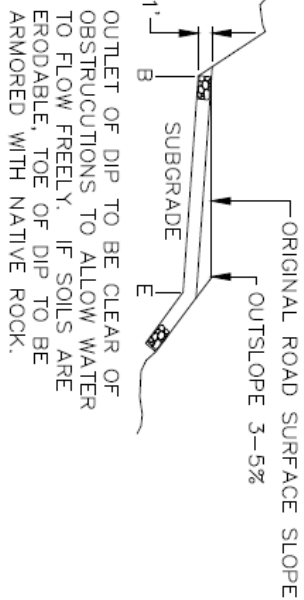
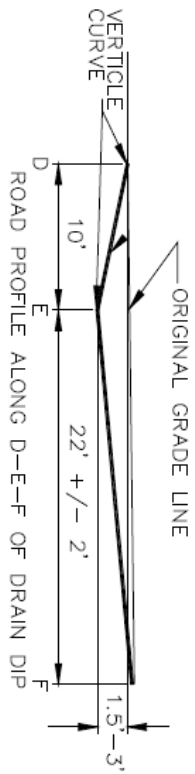
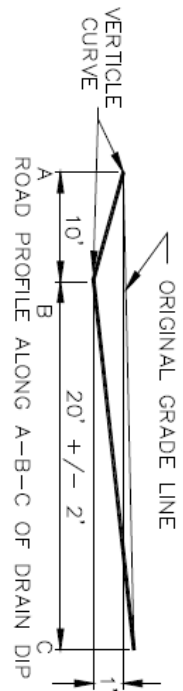


BRUSHING DETAIL

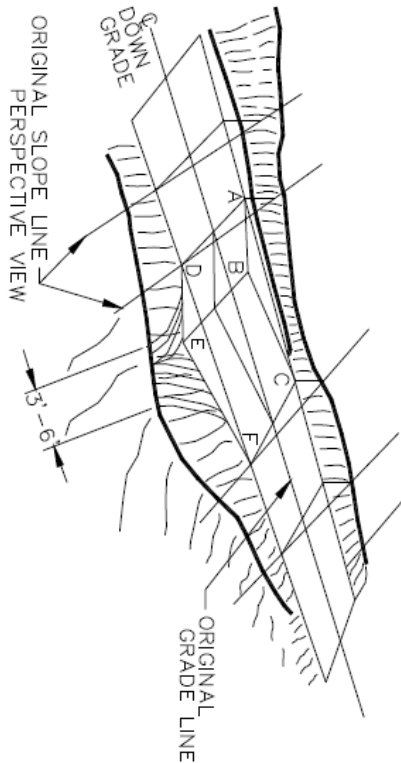


- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8' OF THE GROUND, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.
- 2) ALL BRUSH, TREES, LIMBS, ETC. SHALL BE REMOVED FROM THE ROAD SURFACE.
- 3) ALL BRUSH, TREES, LIMBS, ETC. THAT MAY RESTRICT THE FLOW OF WATER SHALL BE REMOVED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

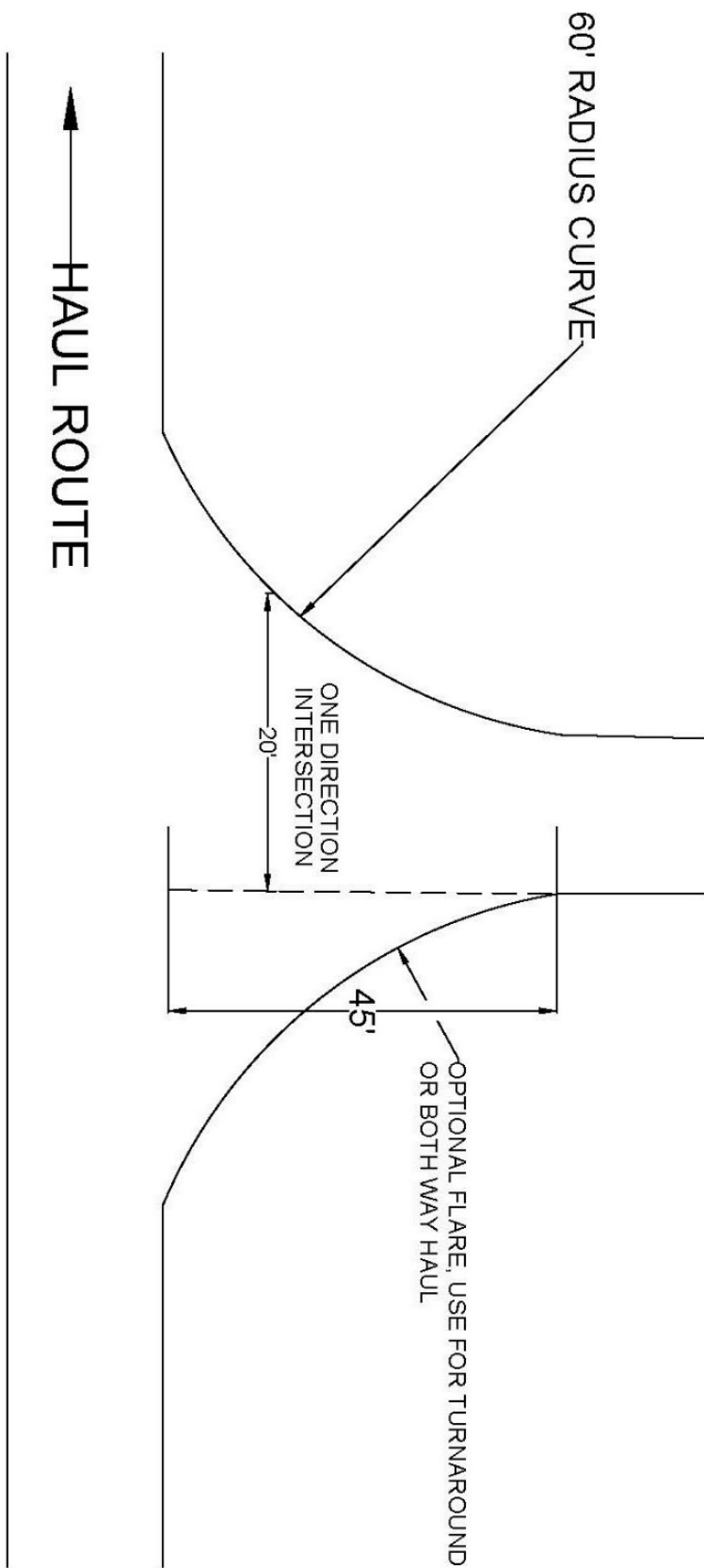
ROLLING DIP DETAIL



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 DRAIN, IF LOCATED IN NATURAL DRAIN.

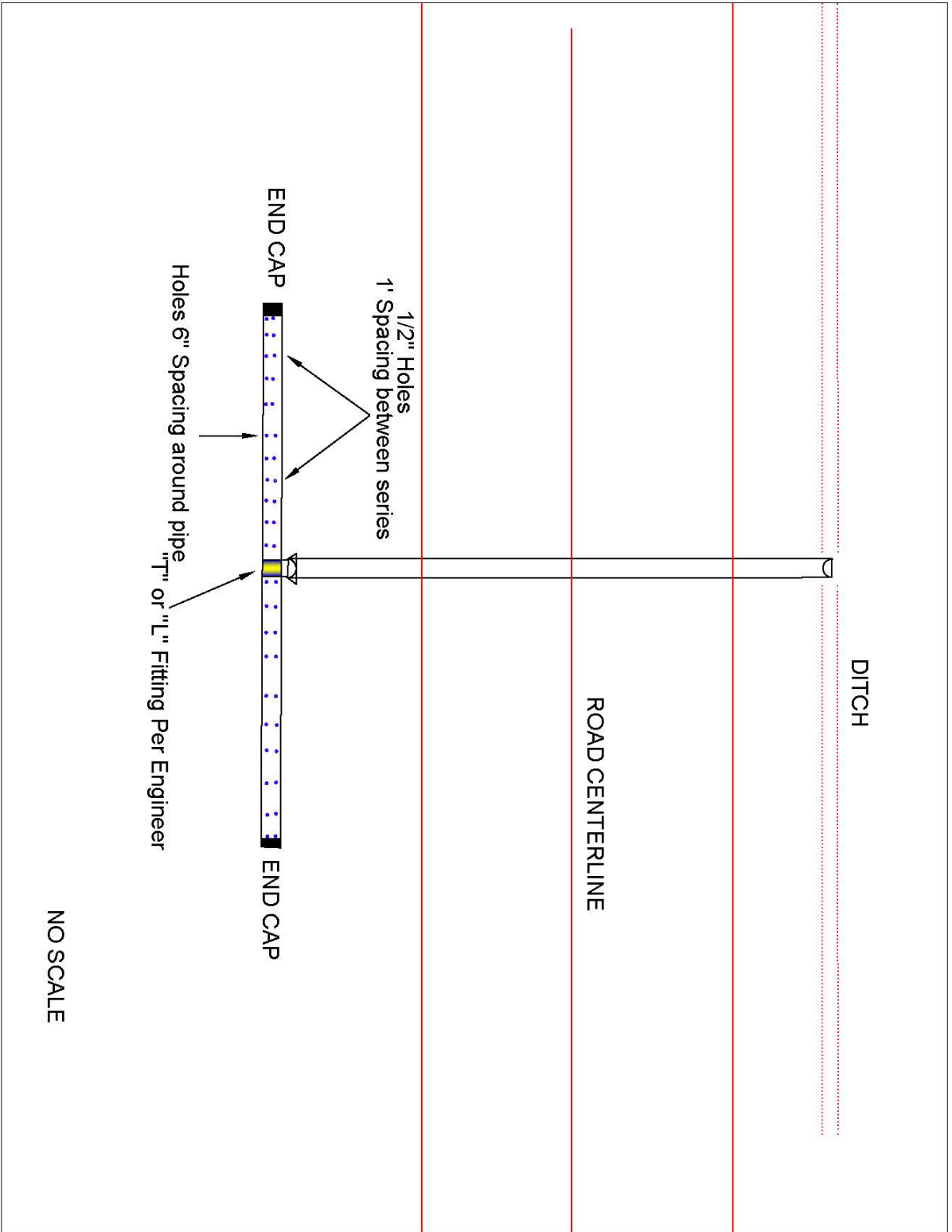


TYPICAL INTERSECTION



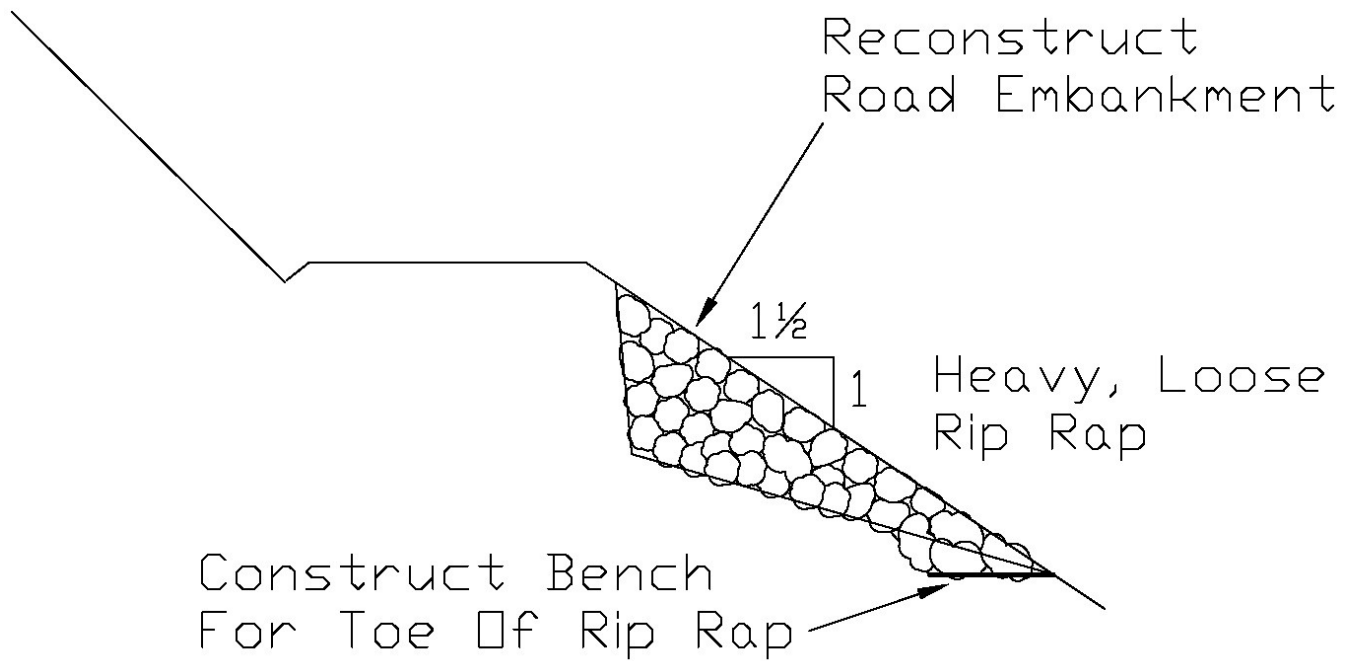
NOT TO SCALE

TYPICAL PERFORATED PIPE INSTALLATION



Typical Embankment Key Detail

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



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
OLYMPIC REGION

**INFORMATIONAL BLASTING PLAN
M-126PAC**

Timber Sale/Project Name: _____ App./Project _____ No.: _____

1. Blaster-in-Charge: Name: _____
Company: _____
Address: _____
Telephone: _____
2. Quarry Name/Location: _____
3. Total Estimated Cubic Yards in Blast (loose): _____
4. Hole Spacing: _____
5. Burden: _____
6. Hole Diameter: _____
7. Hole Depth: _____
8. Sub Drill: _____
9. Number of Holes: _____
10. Stemming Depth: _____
11. Explosive (mfg., name, density, %, V.O.D.): _____

12. Type and Size of Primer (if applicable): _____
13. Total Weight of Primers for Shot: _____

14. Calculated Powder Factor/Cubic Yard: _____
15. Number of Delays (in M.S.): _____
-
16. Number of Holes Fired on Each Delay: _____
-
17. Total Amount of Explosives Fired on Each Delay: _____
-
18. Type of Blasting Machine: _____
-
19. Date, Start Drilling: _____
20. Date and Time, Start Loading: _____
21. Date and Time of Blast (approx.): _____

INFORMATIONAL BLASTING PLAN

M-
126PAC (03/04)
Page 1 of 2

22. Detail drawing of delay system (show hole pattern and delays in milliseconds). Attach additional sheets if required:

23. Typical cross-section of hole (show primer, main charge, sub drill, and stemming):

23. Submitted by: _____ Date:

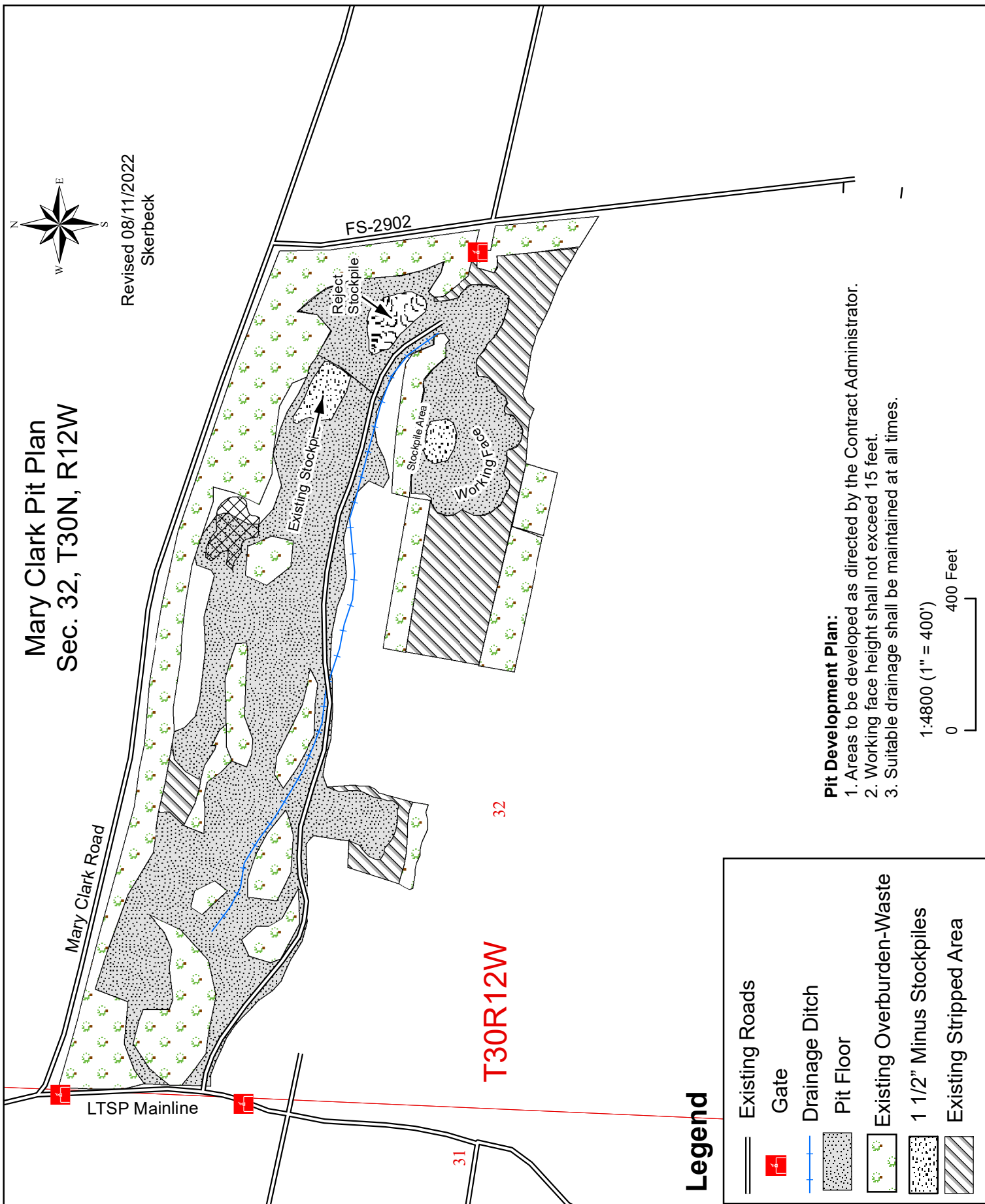
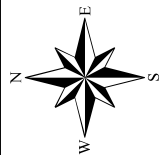
24. Received by: _____ Date:

Note: Attach copies of manufacturer's data sheet(s) for explosive and caps.

INFORMATIONAL BLASTING PLAN
M-126PAC (03/04)

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

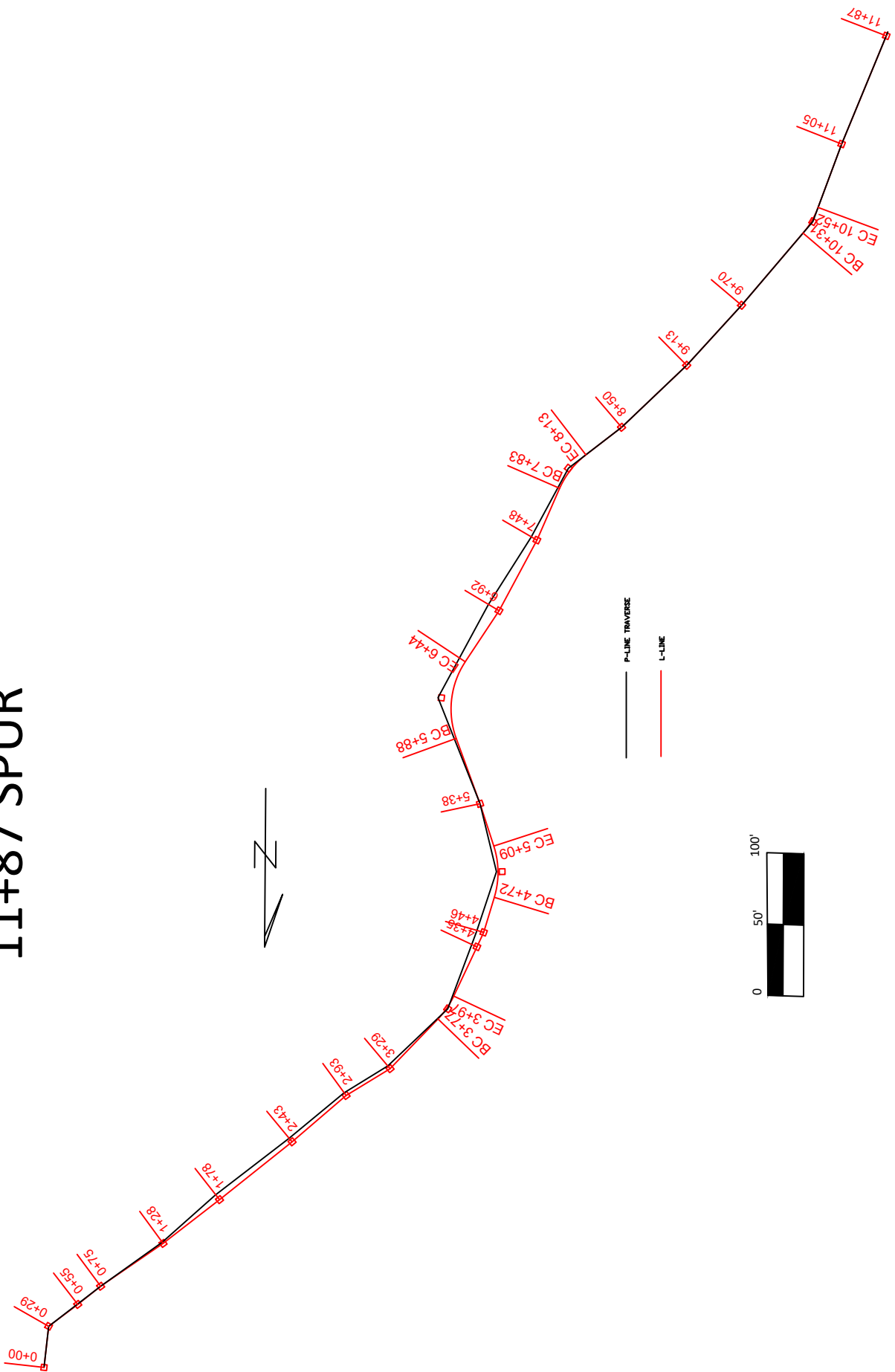
Pit Development Plan:

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.

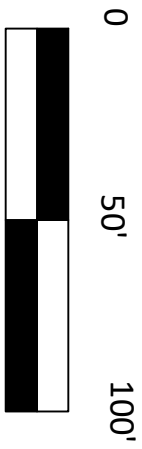
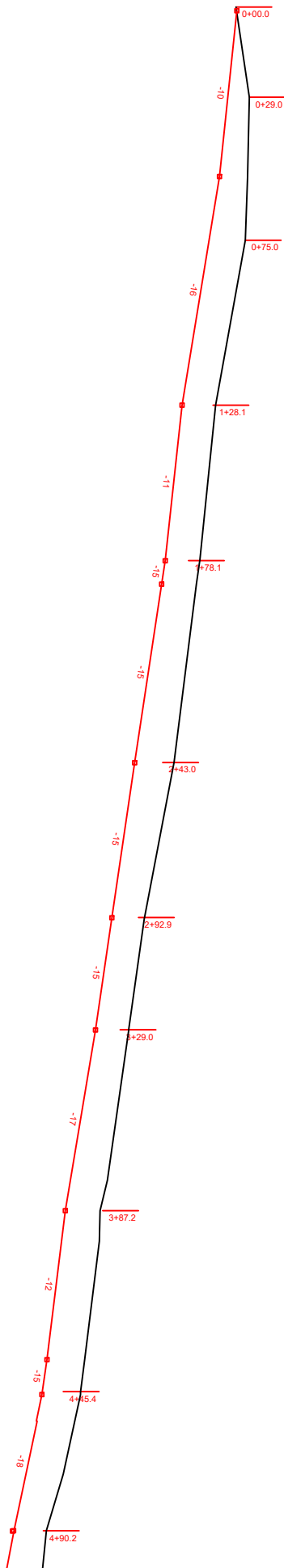
1:4800 (1" = 400')



PLAN VIEW 11+87 SPUR

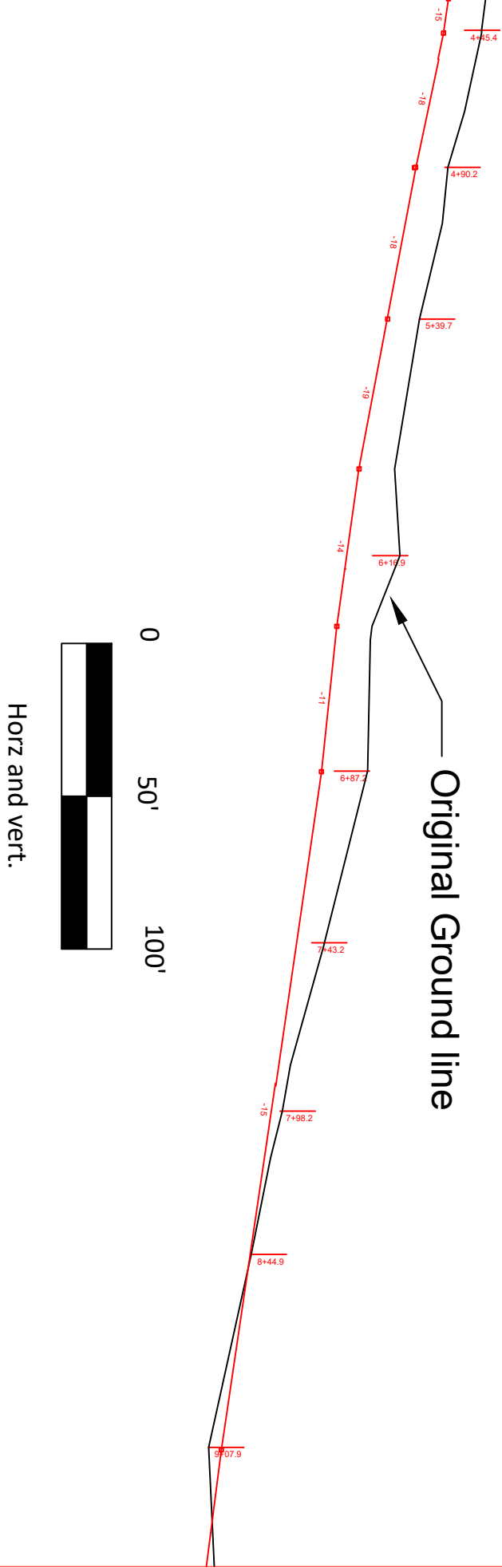


PROFILE VIEW



Designed By: Mehl
 Drawn By: Mehl
 Date: 9/5/23 Sheet
 2 of 4

PROFILE VIEW



Original Ground line

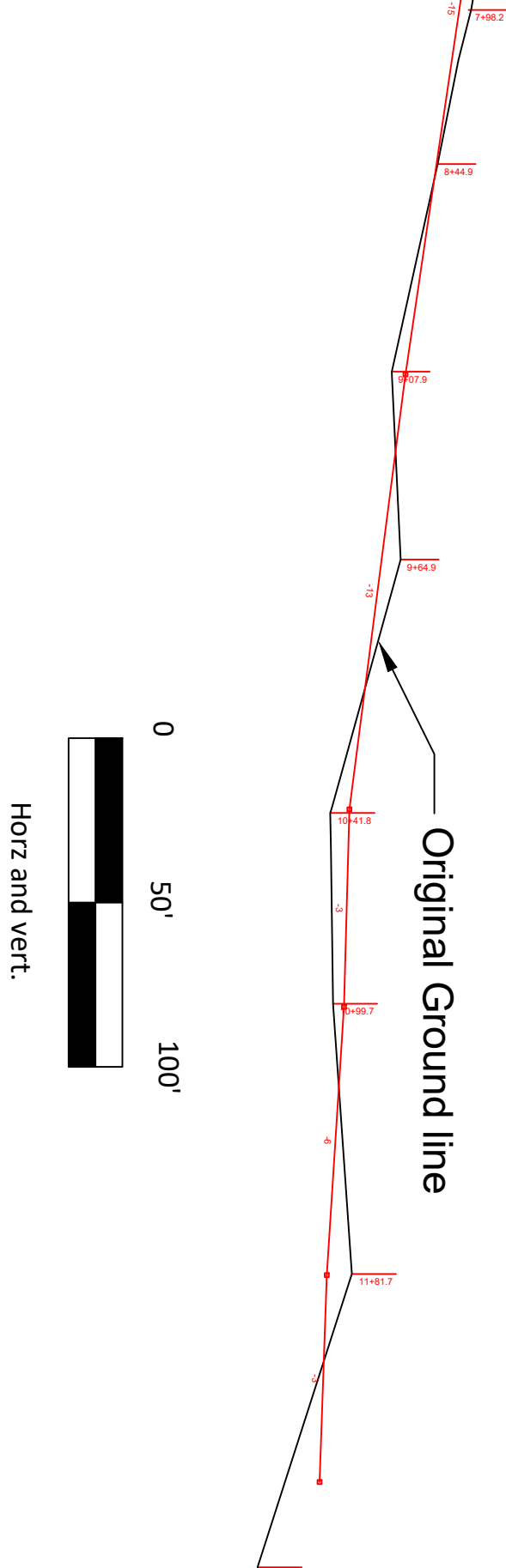
0 50' 100'

Horz and vert.

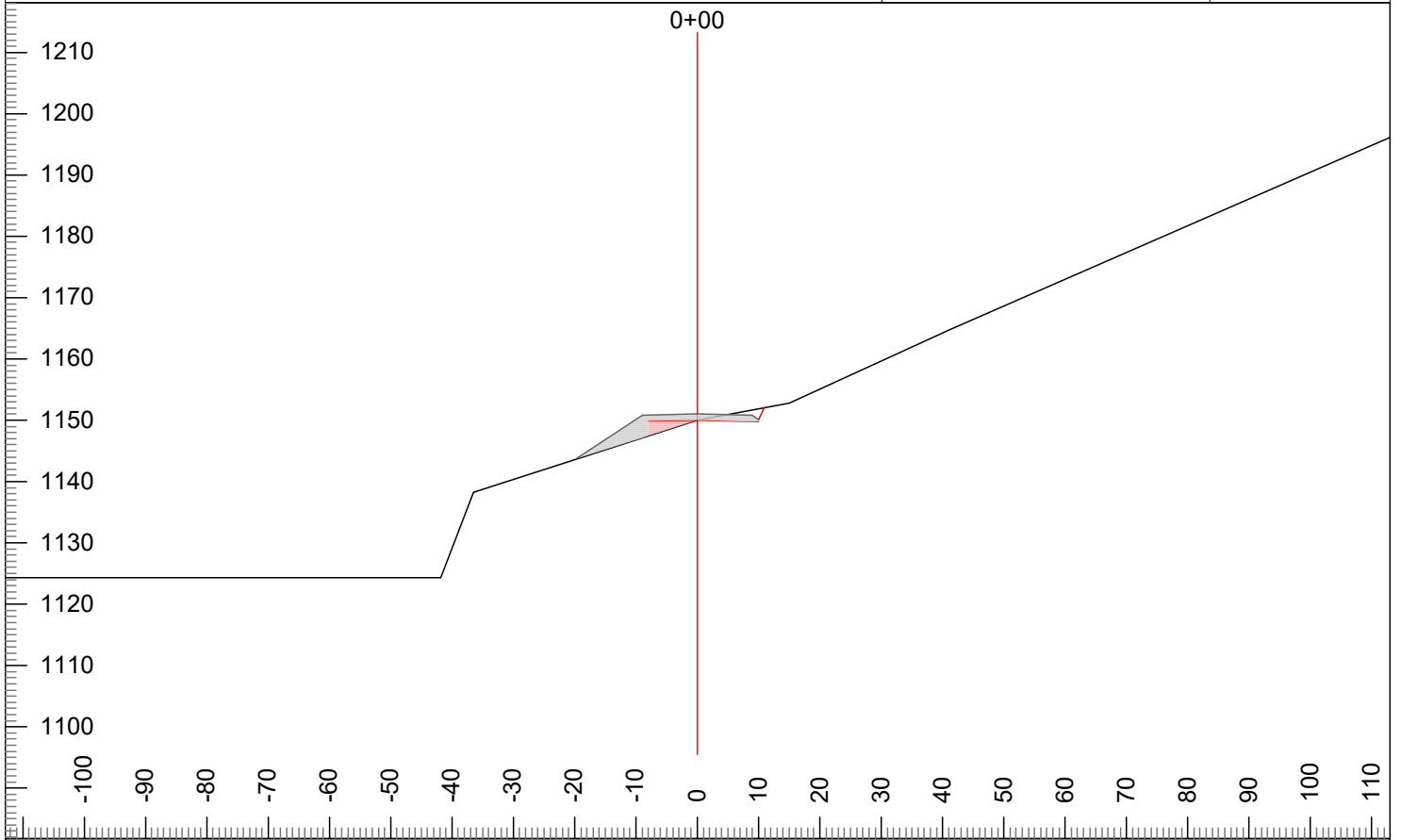


Designed By: Mehl
Drawn By: Mehl
Date: 9/5/23
Sheet 3 of 4

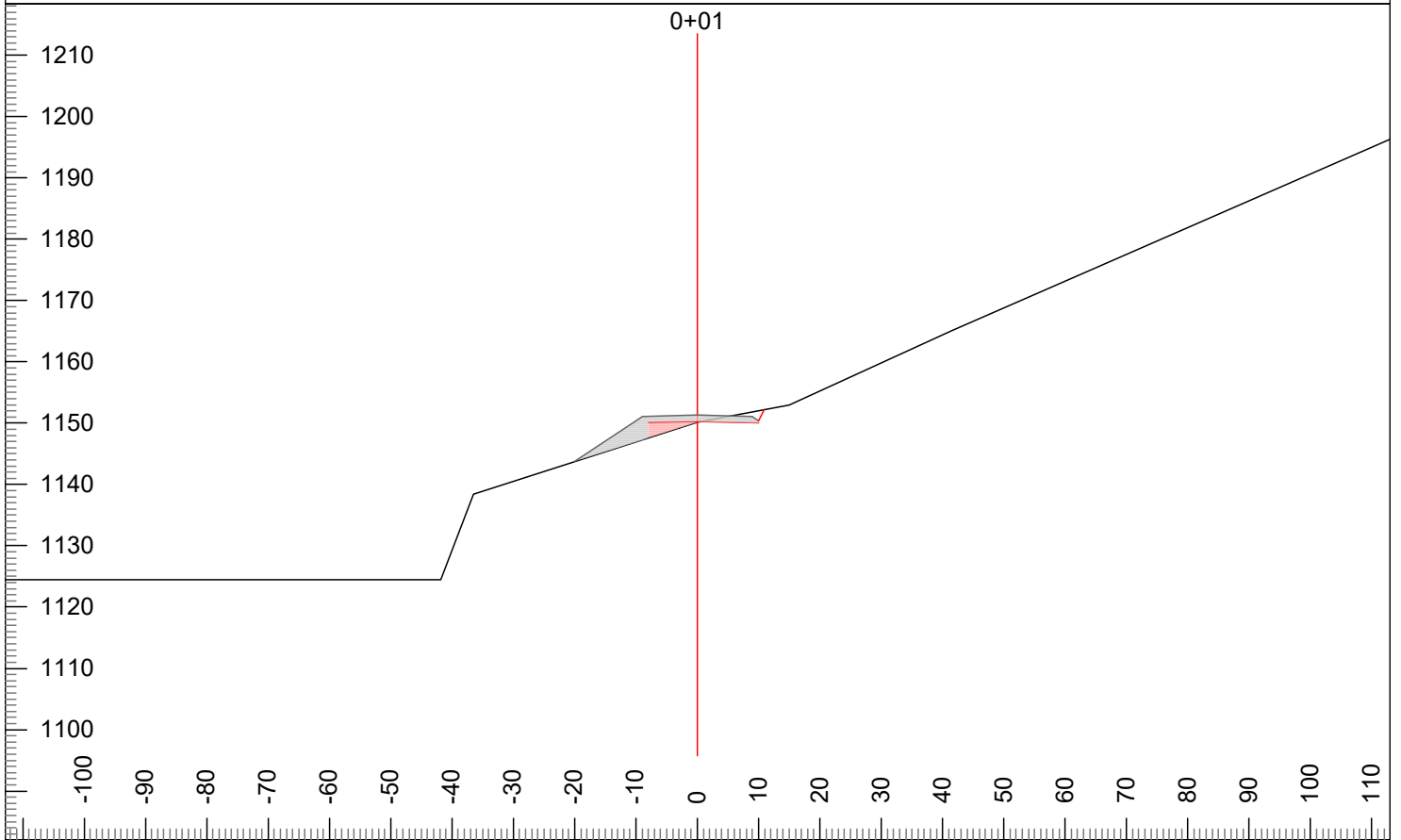
PROFILE VIEW



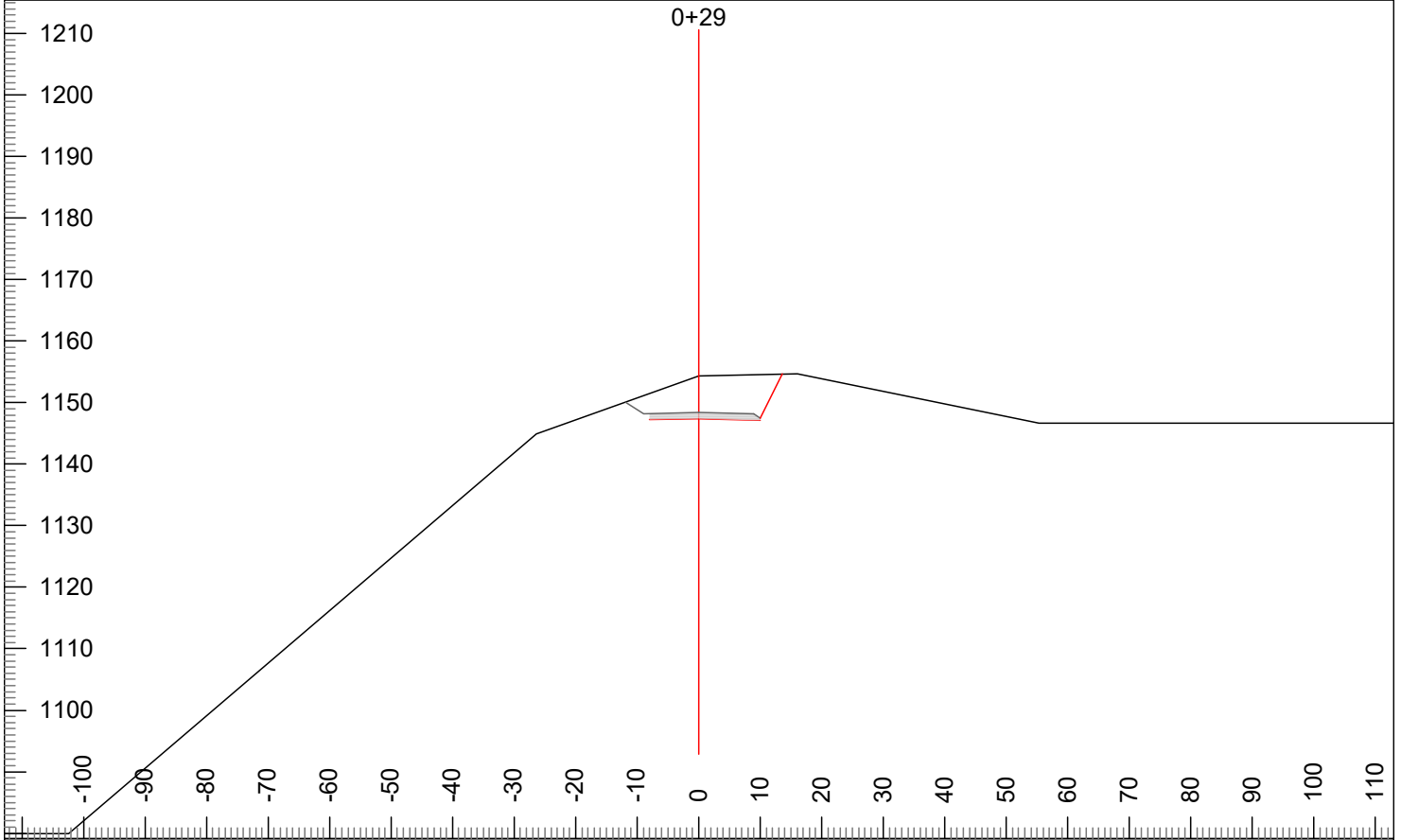
Designed By: Mehl
 Drawn By: Mehl
 Date: 9/5/23
 Sheet 4 of 4



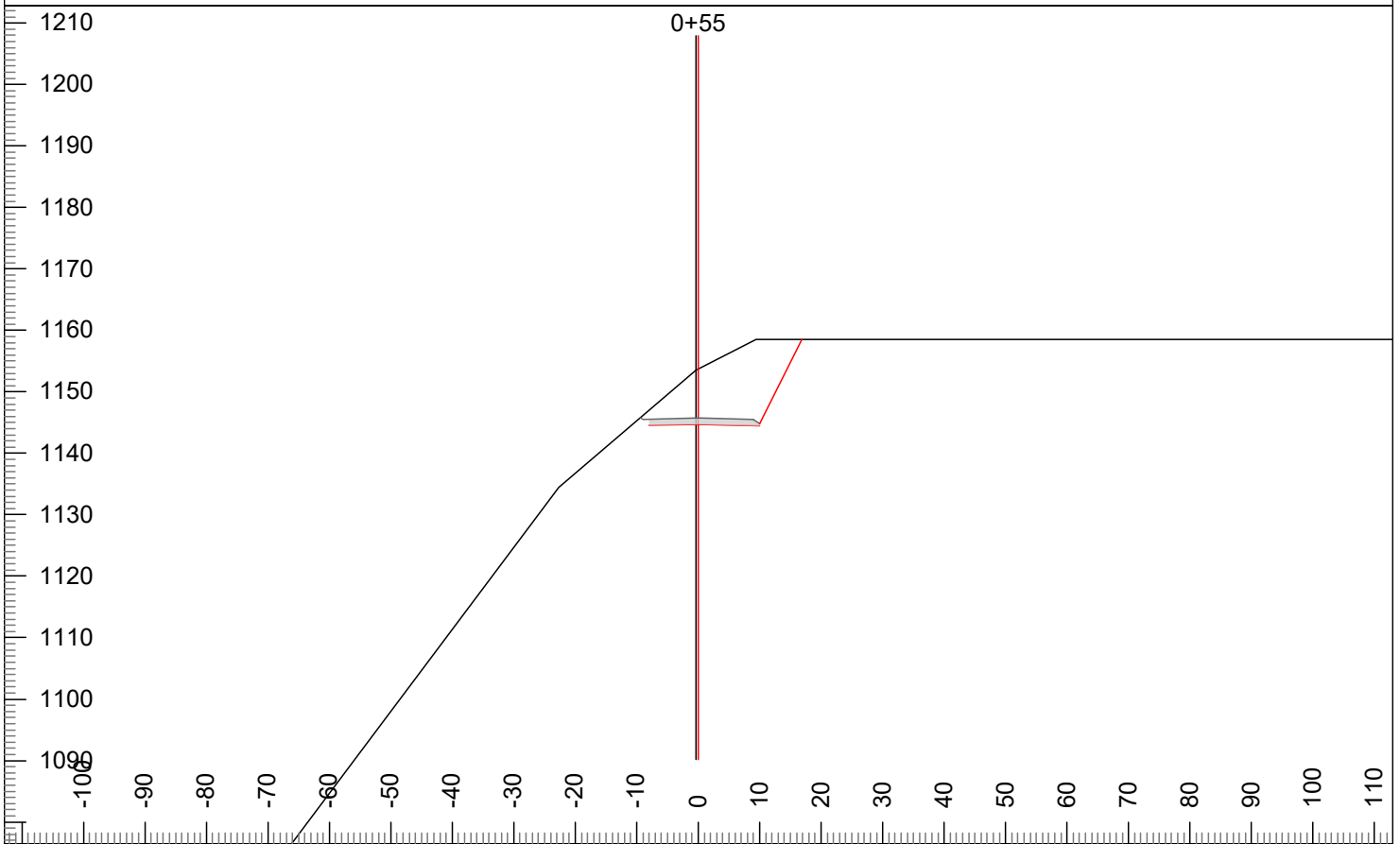
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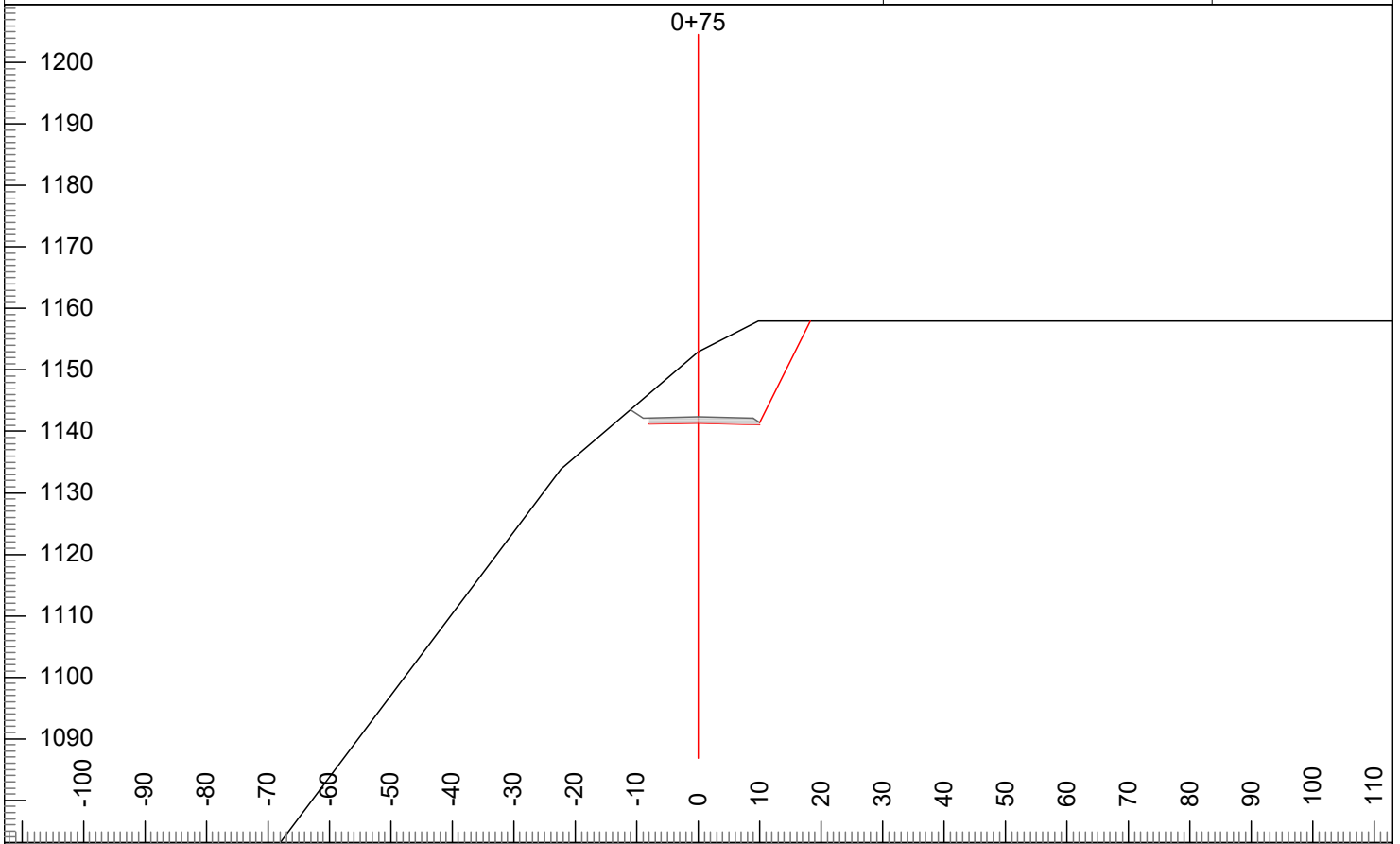
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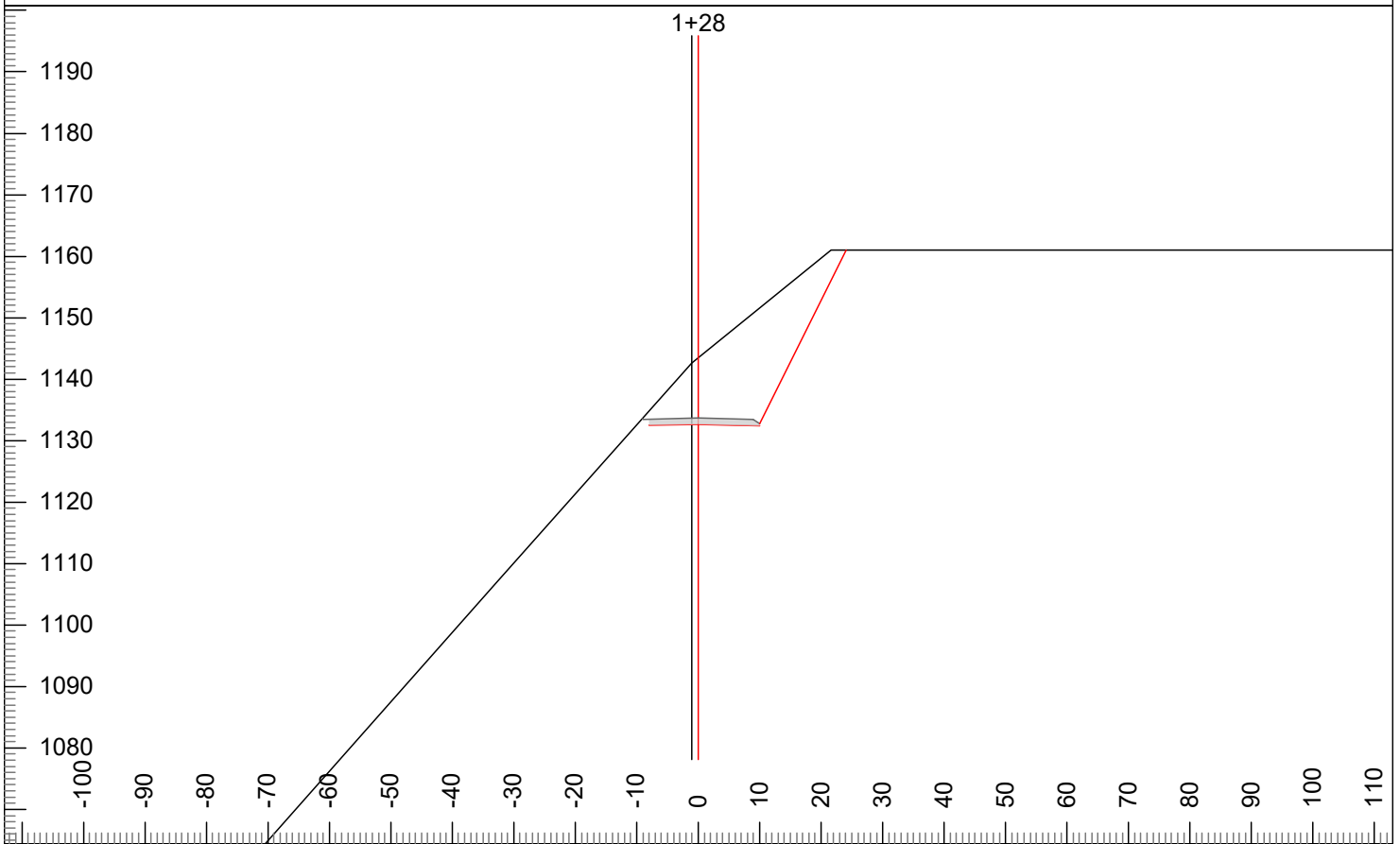
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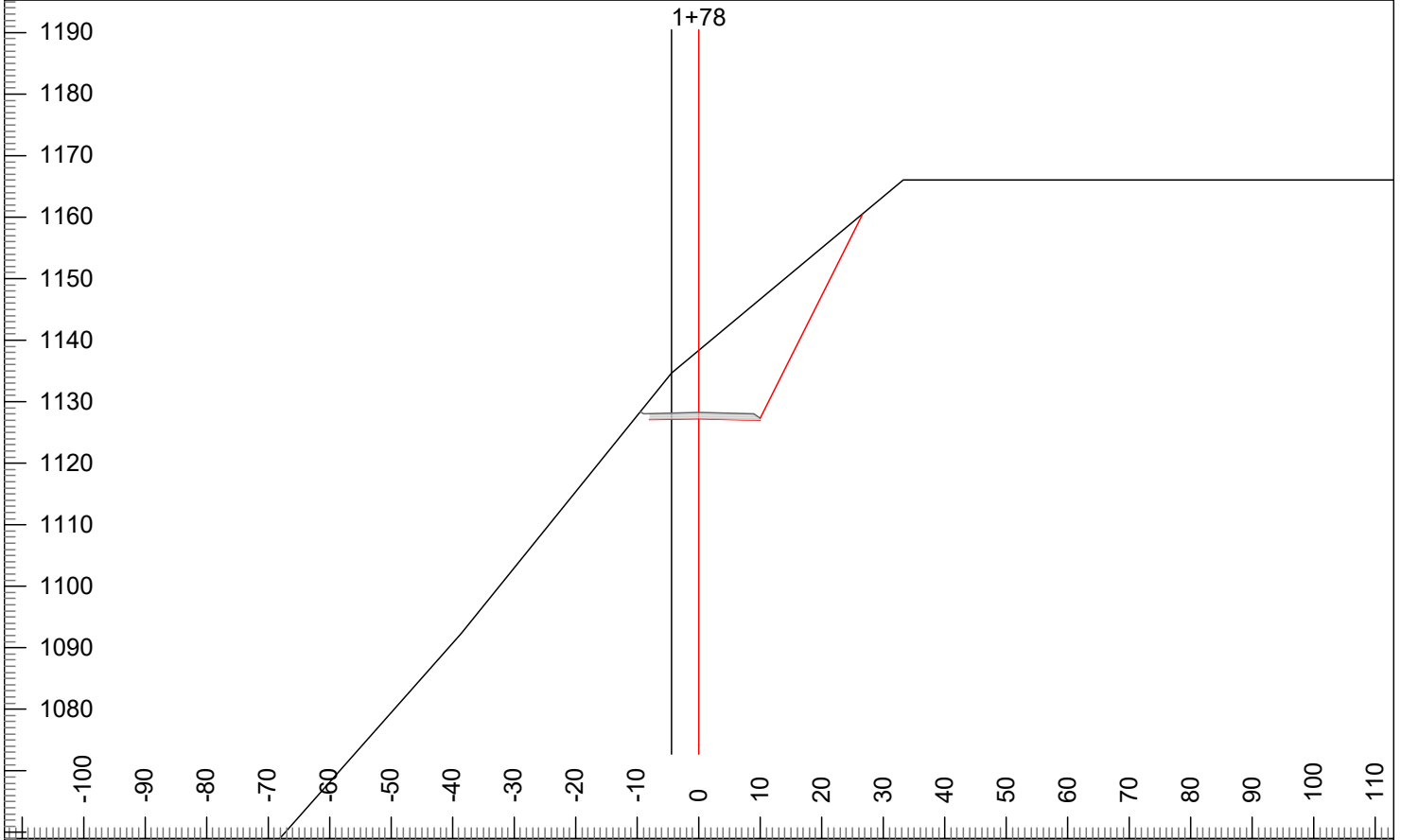
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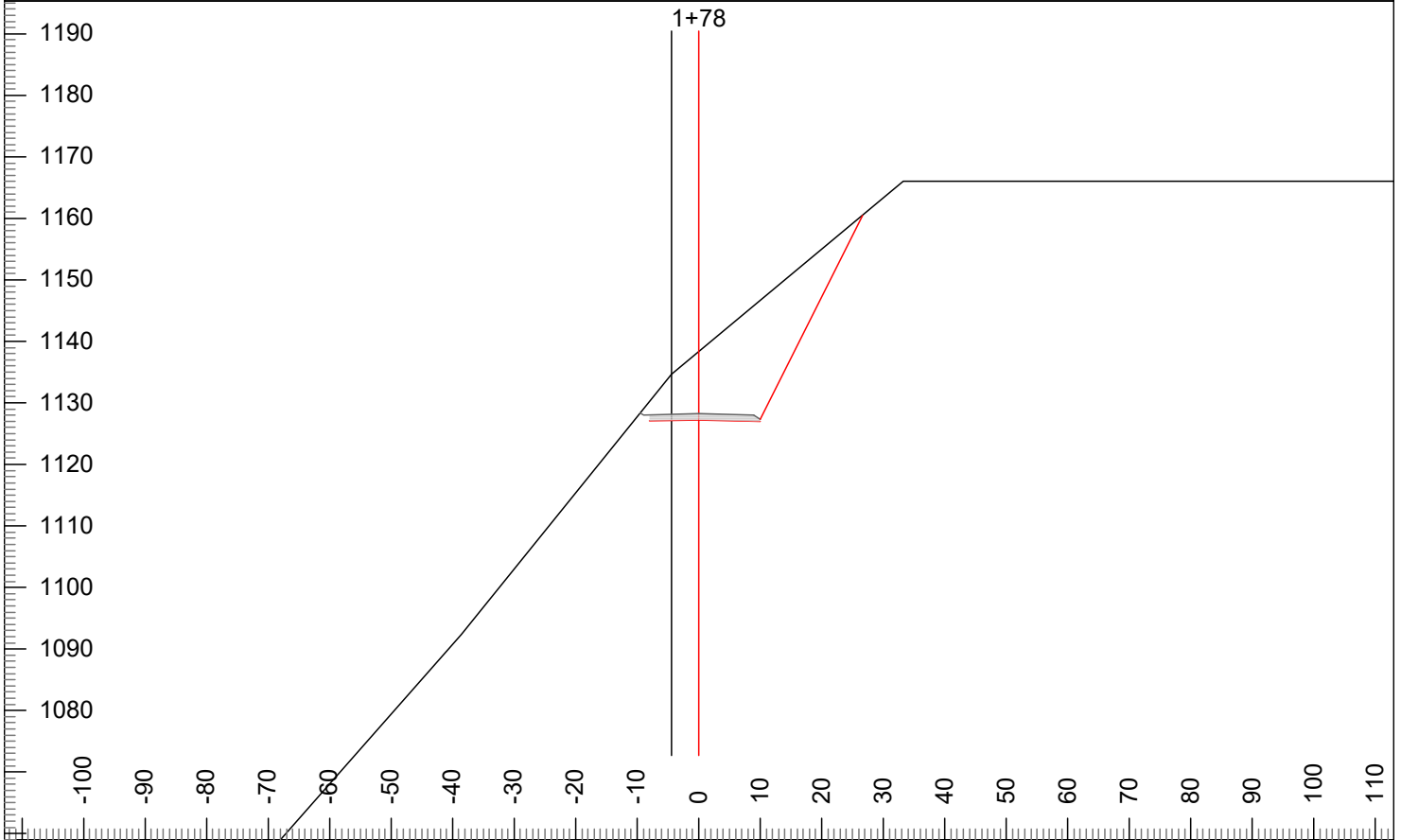
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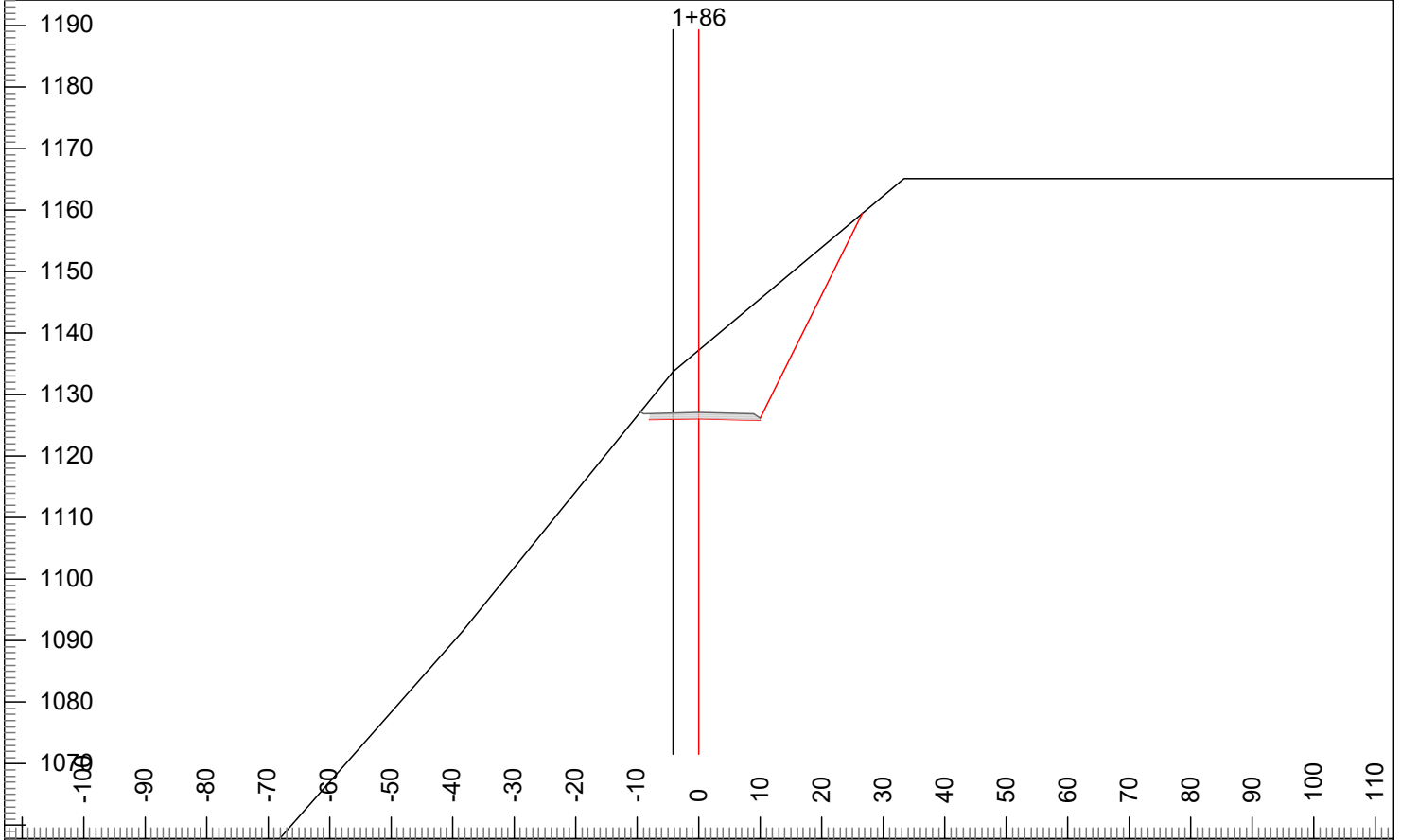
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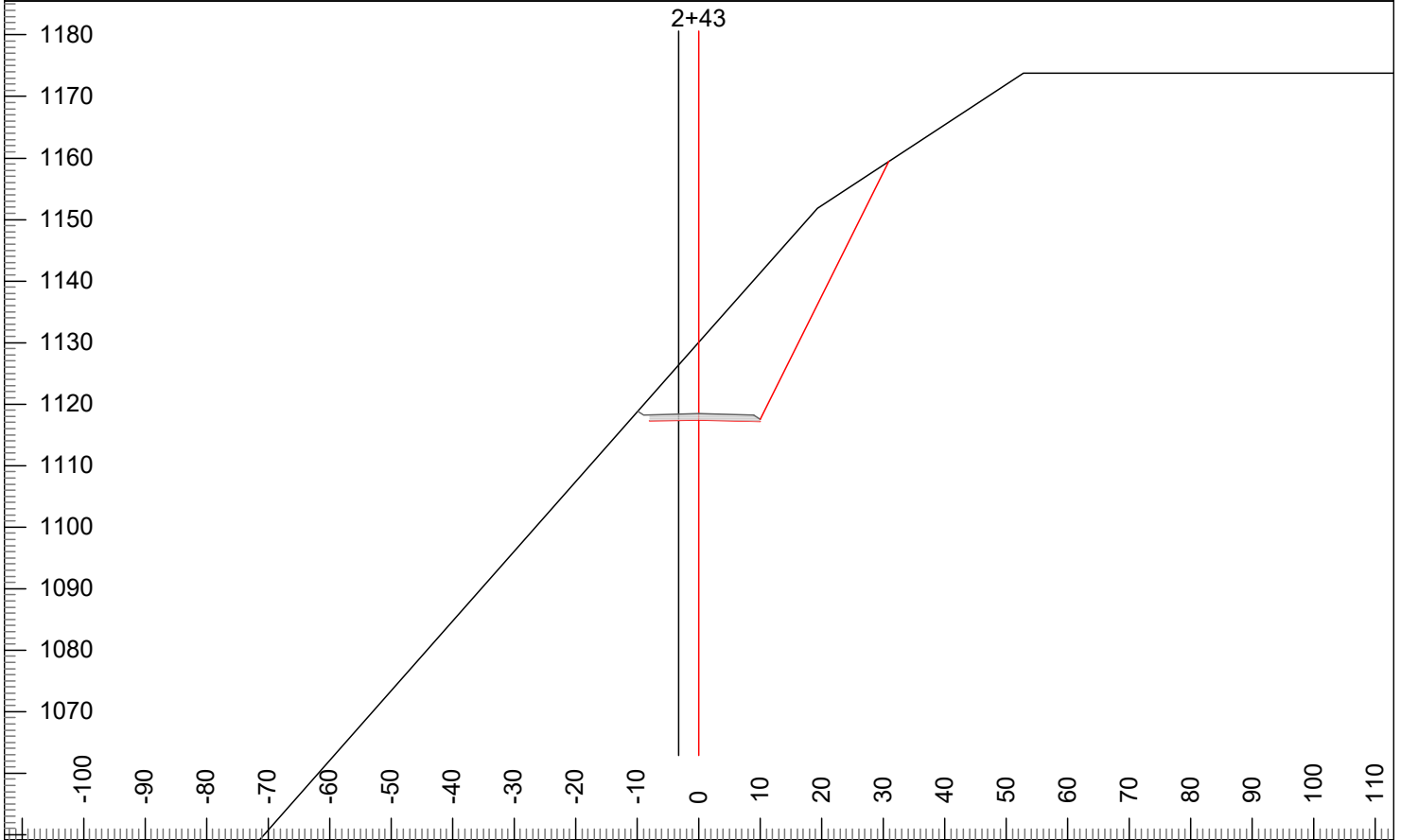
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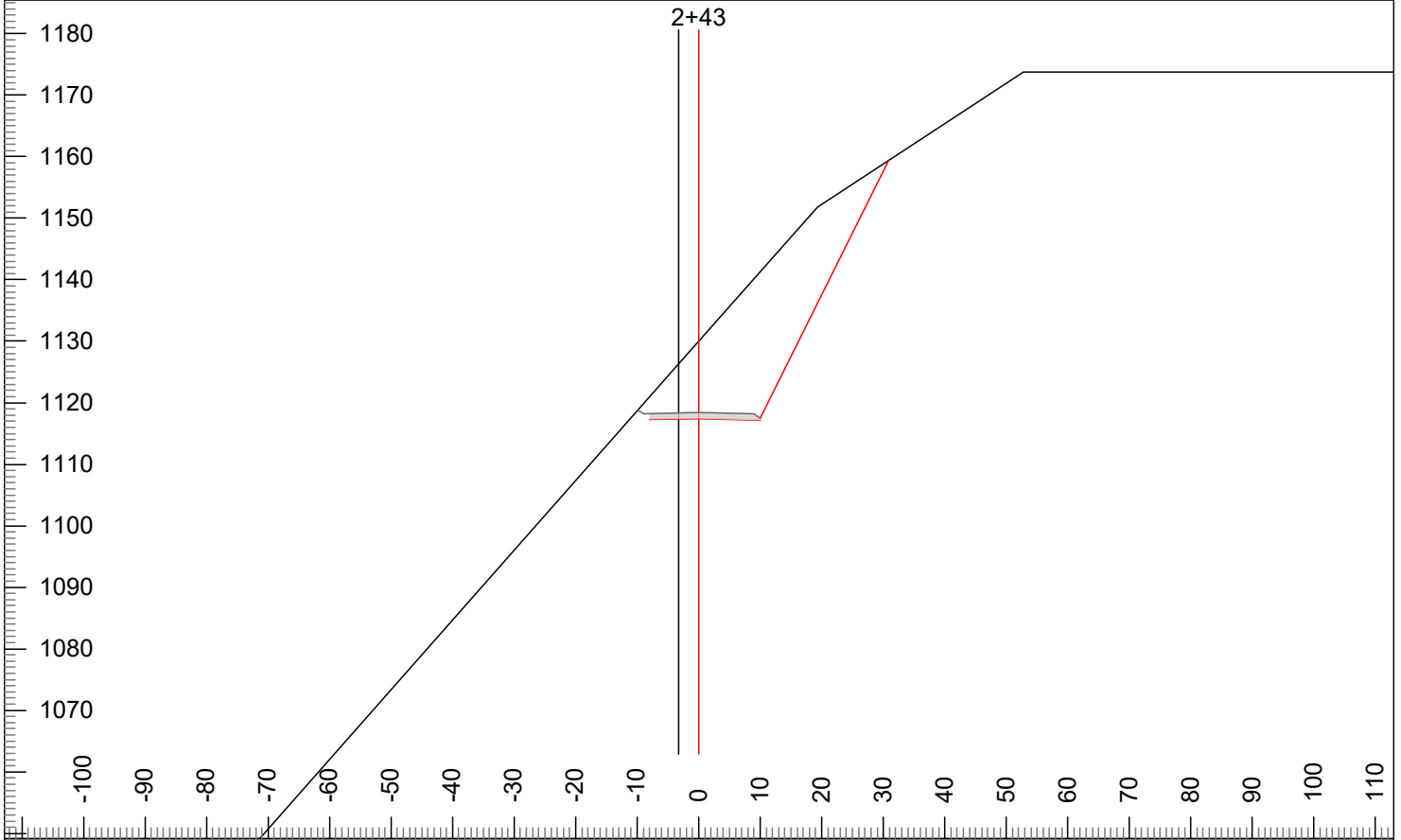
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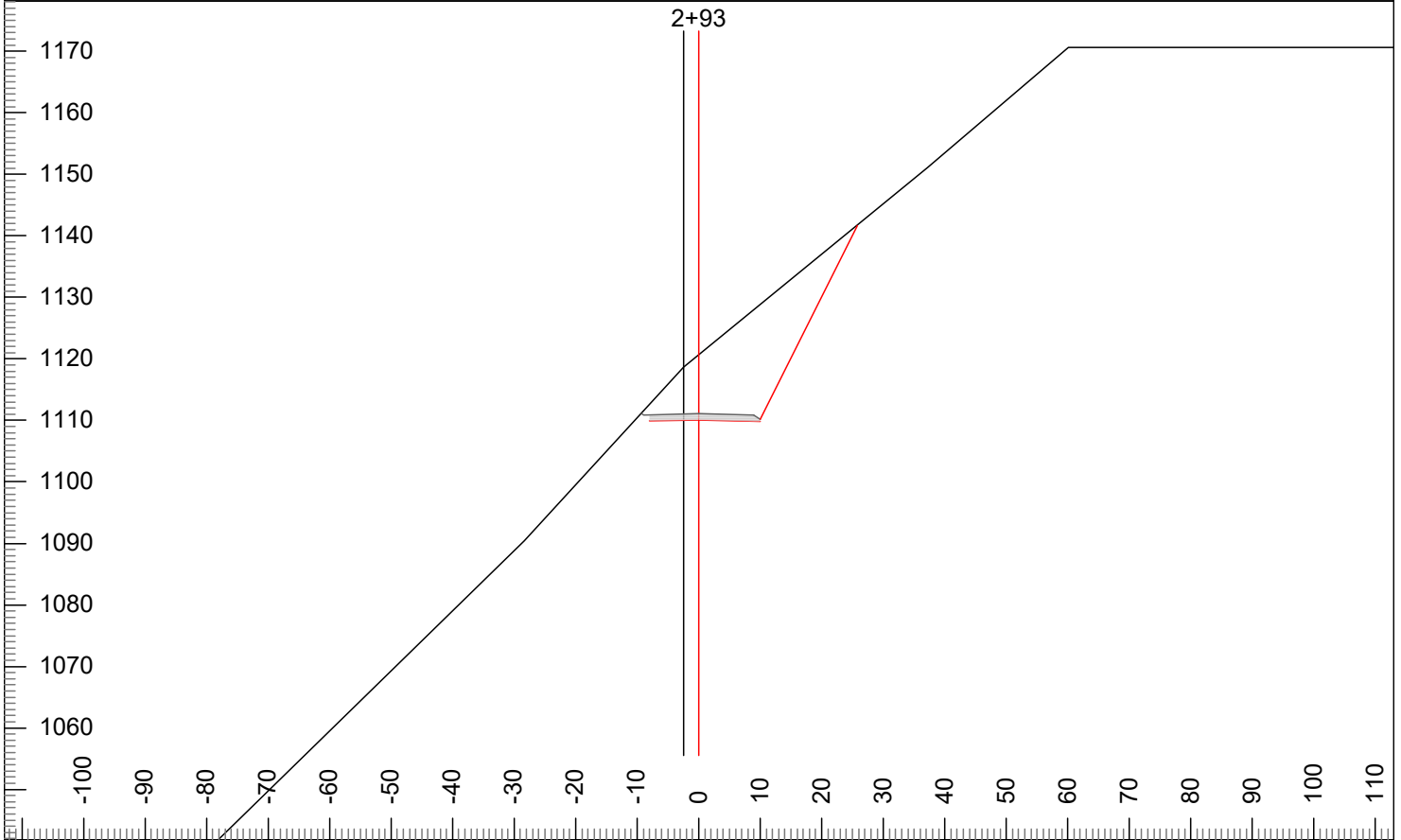
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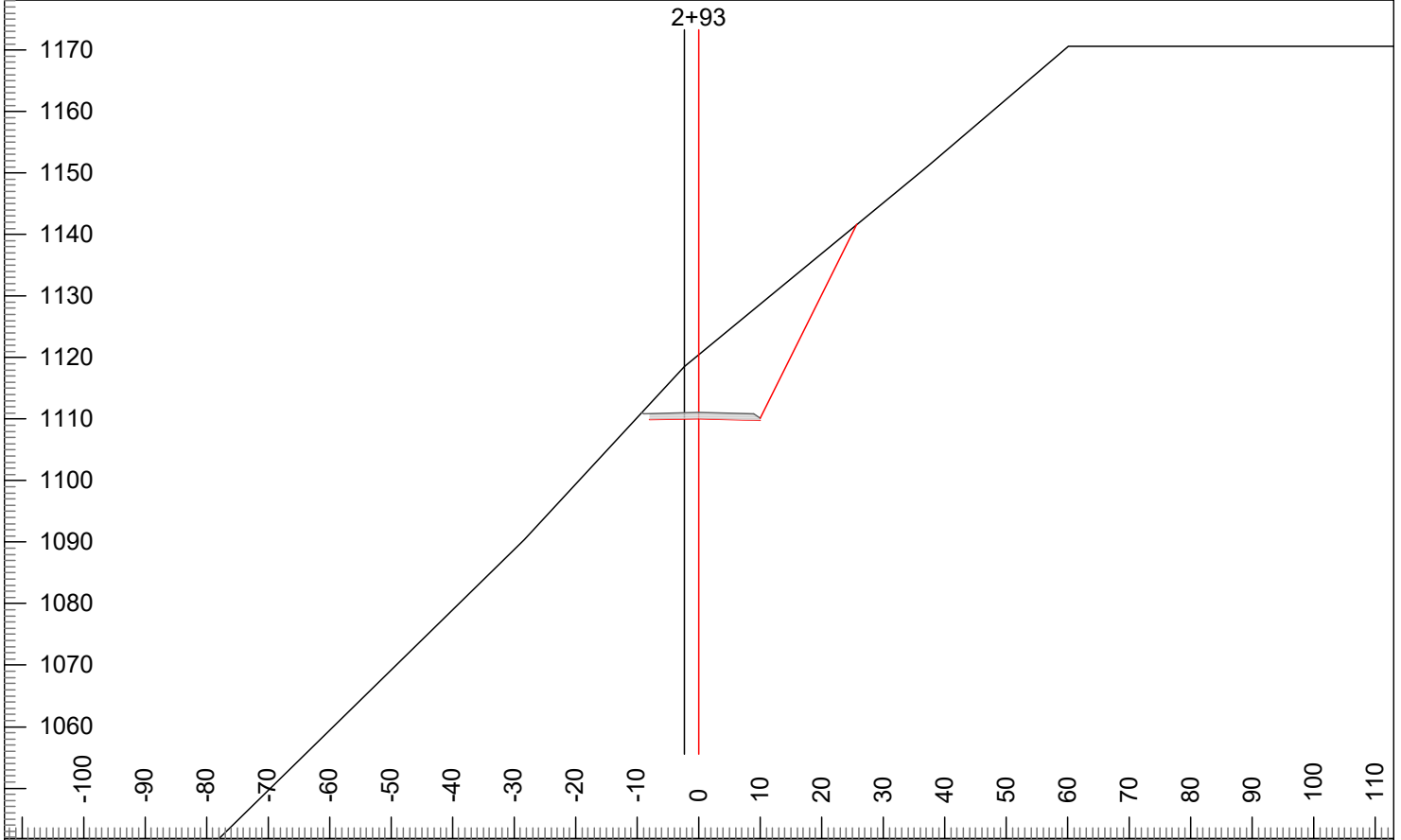
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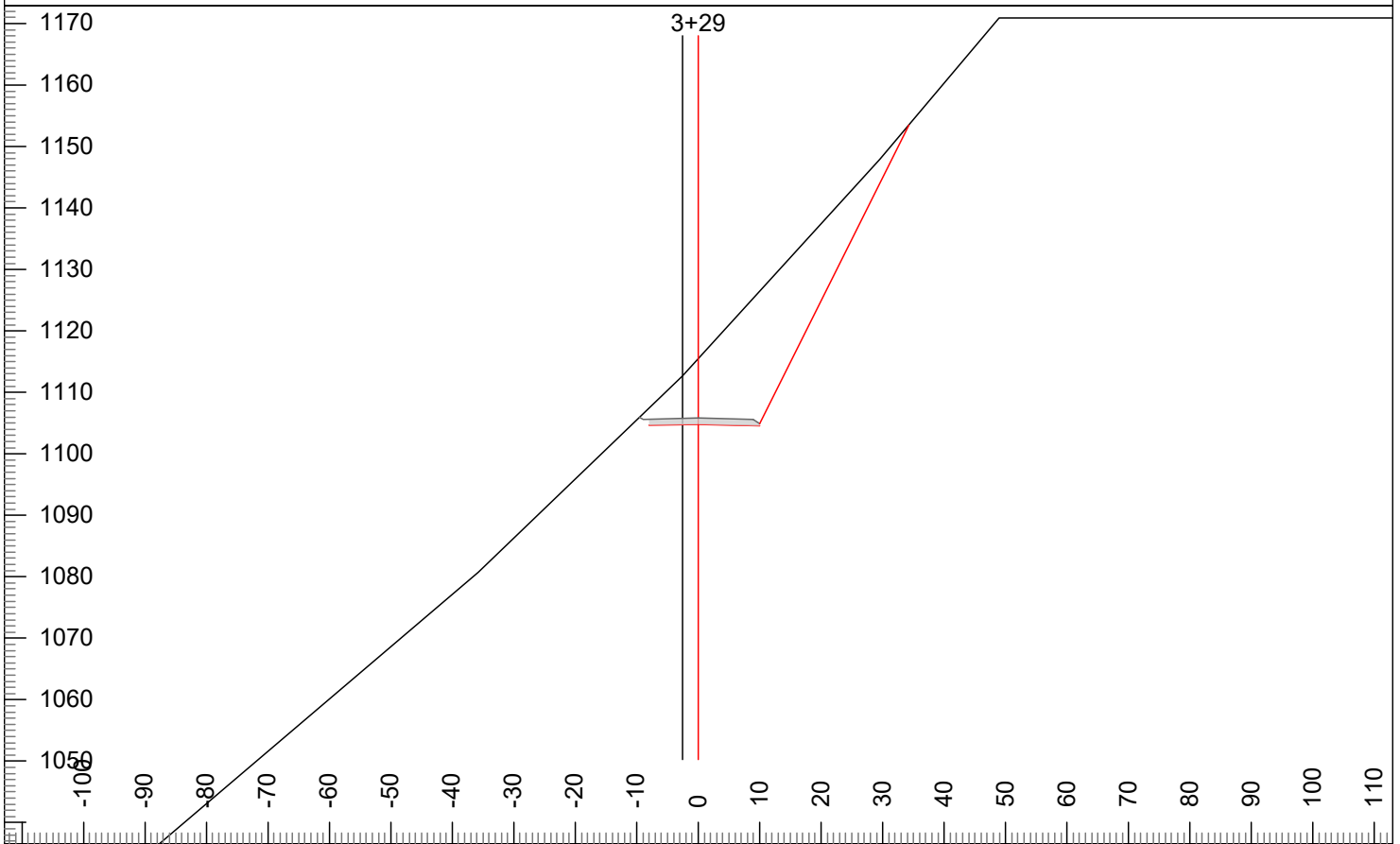
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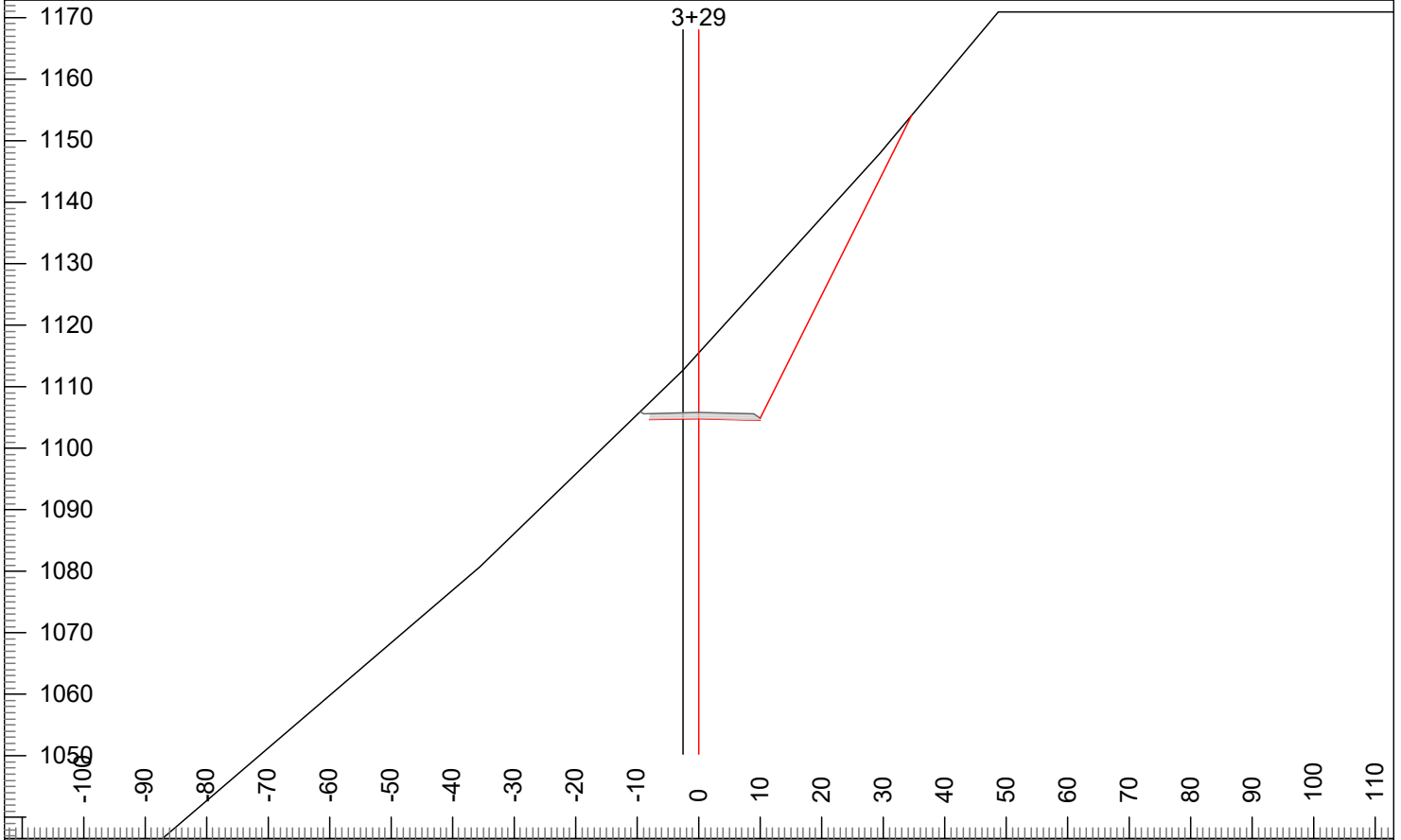
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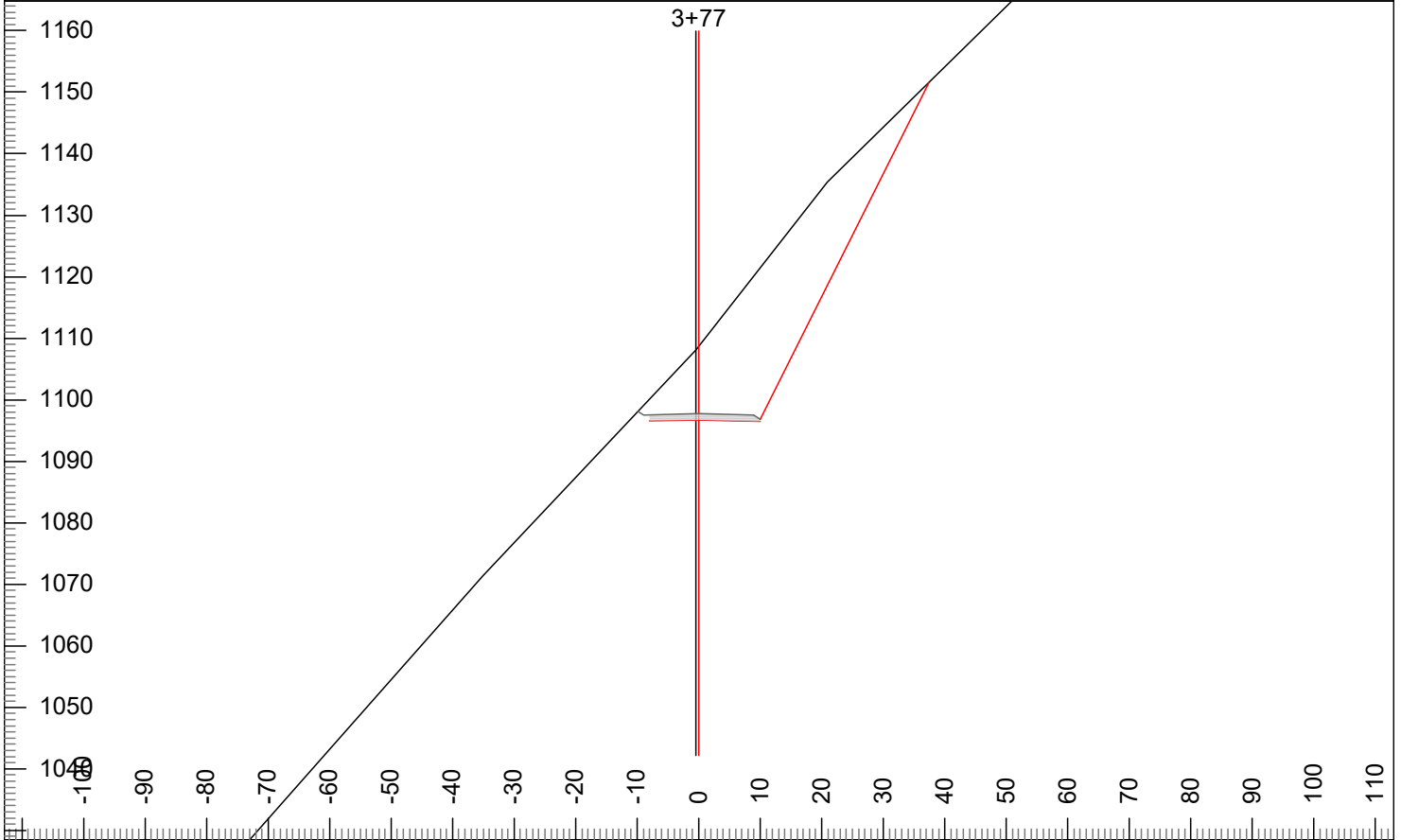
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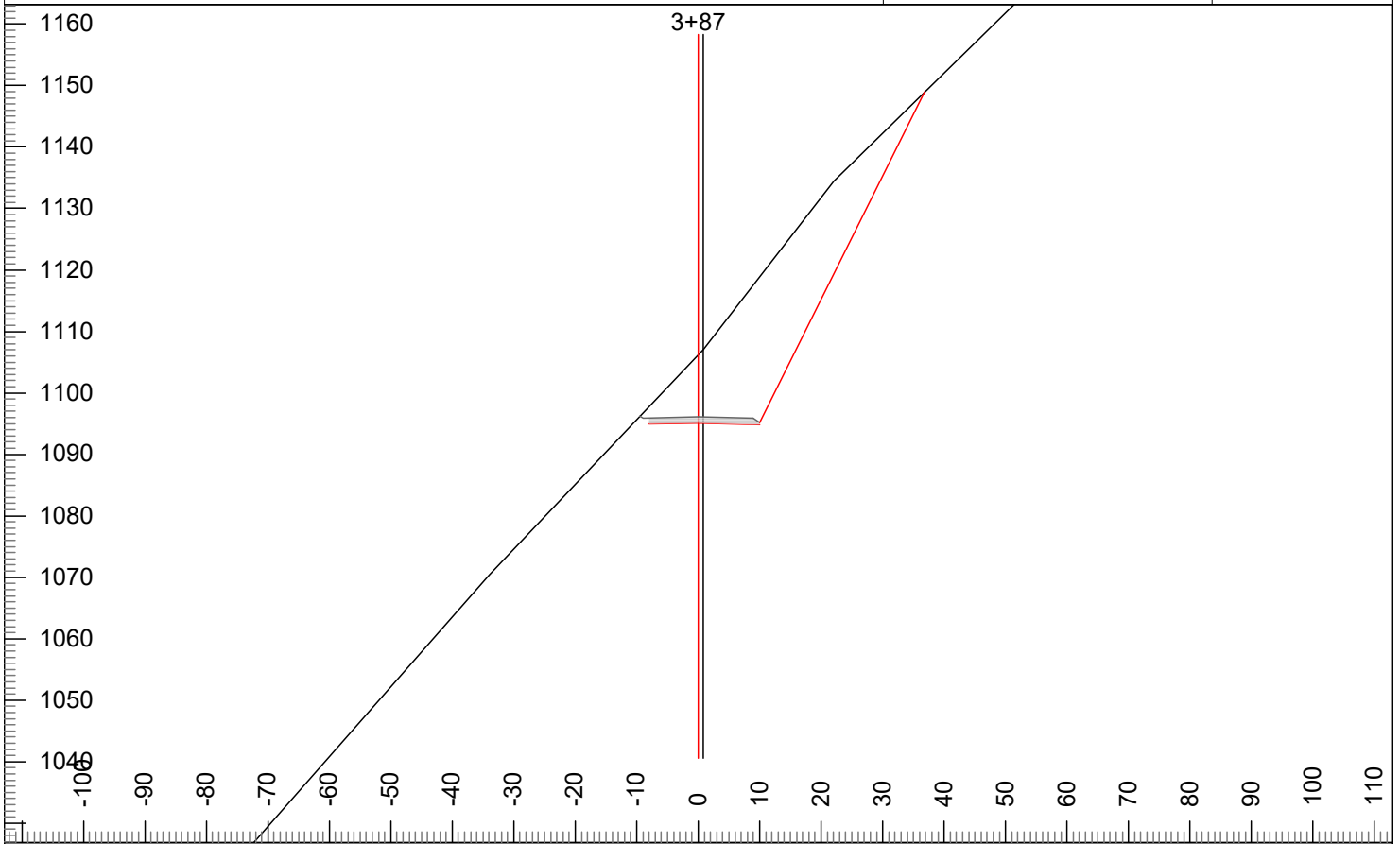
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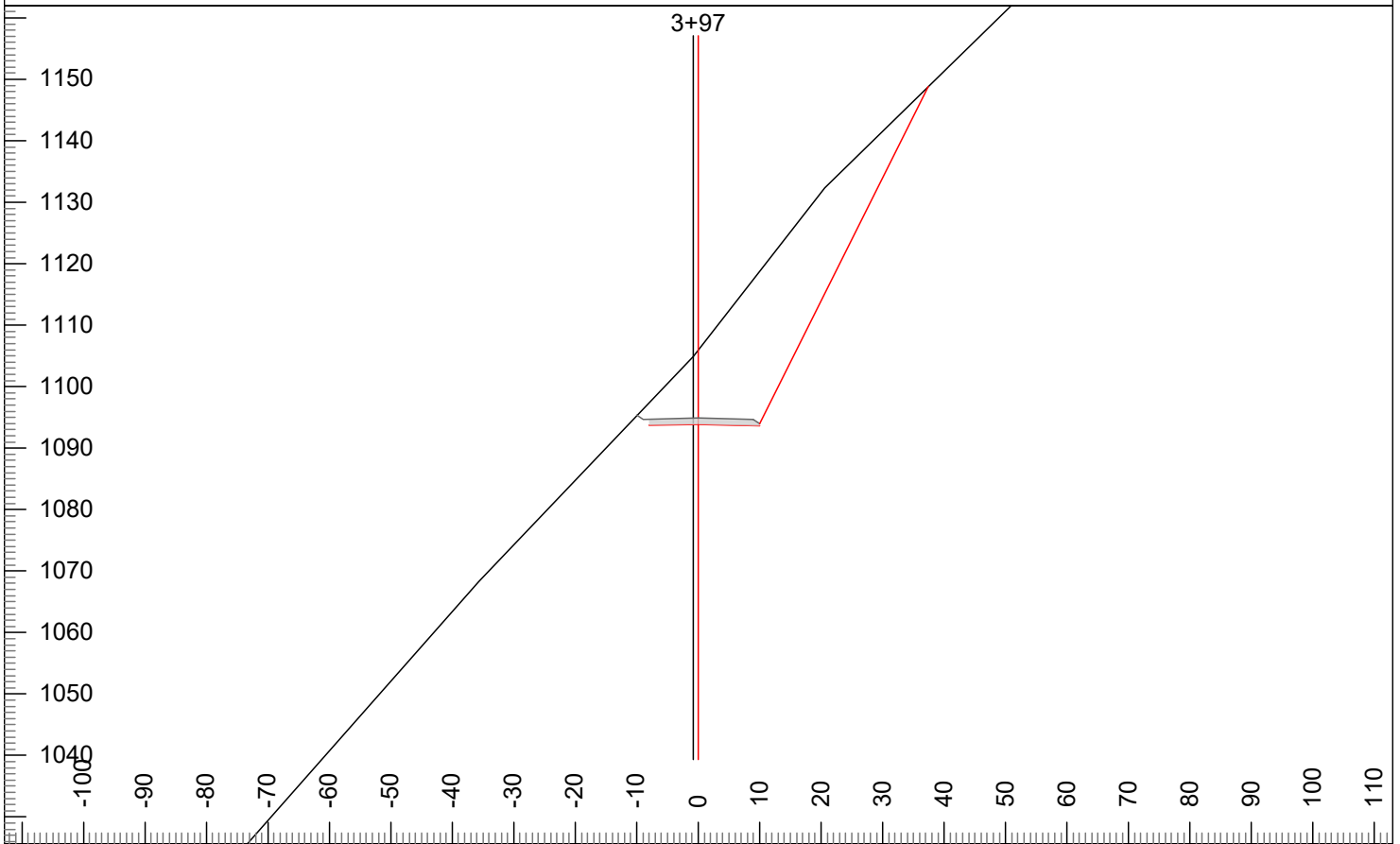
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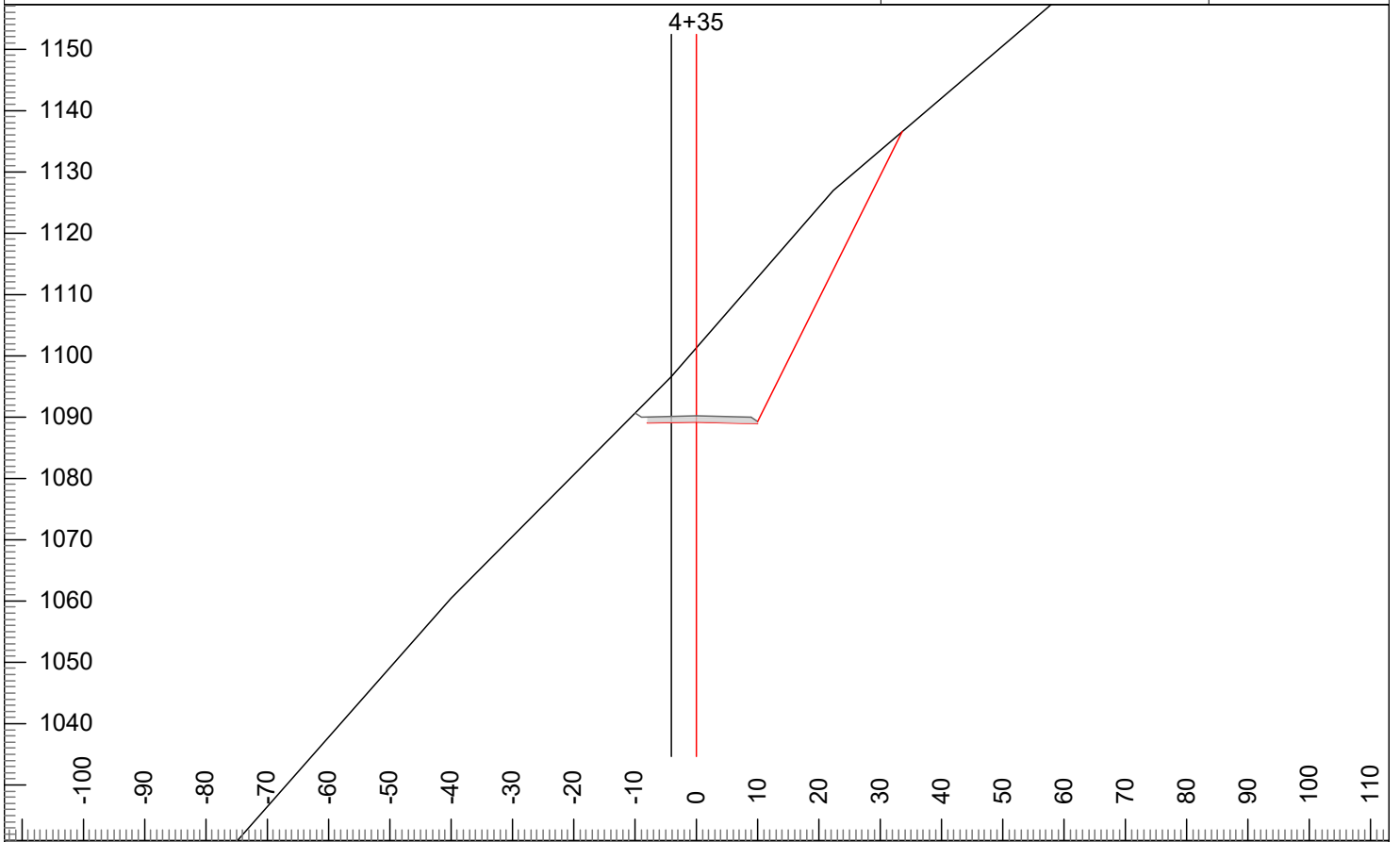
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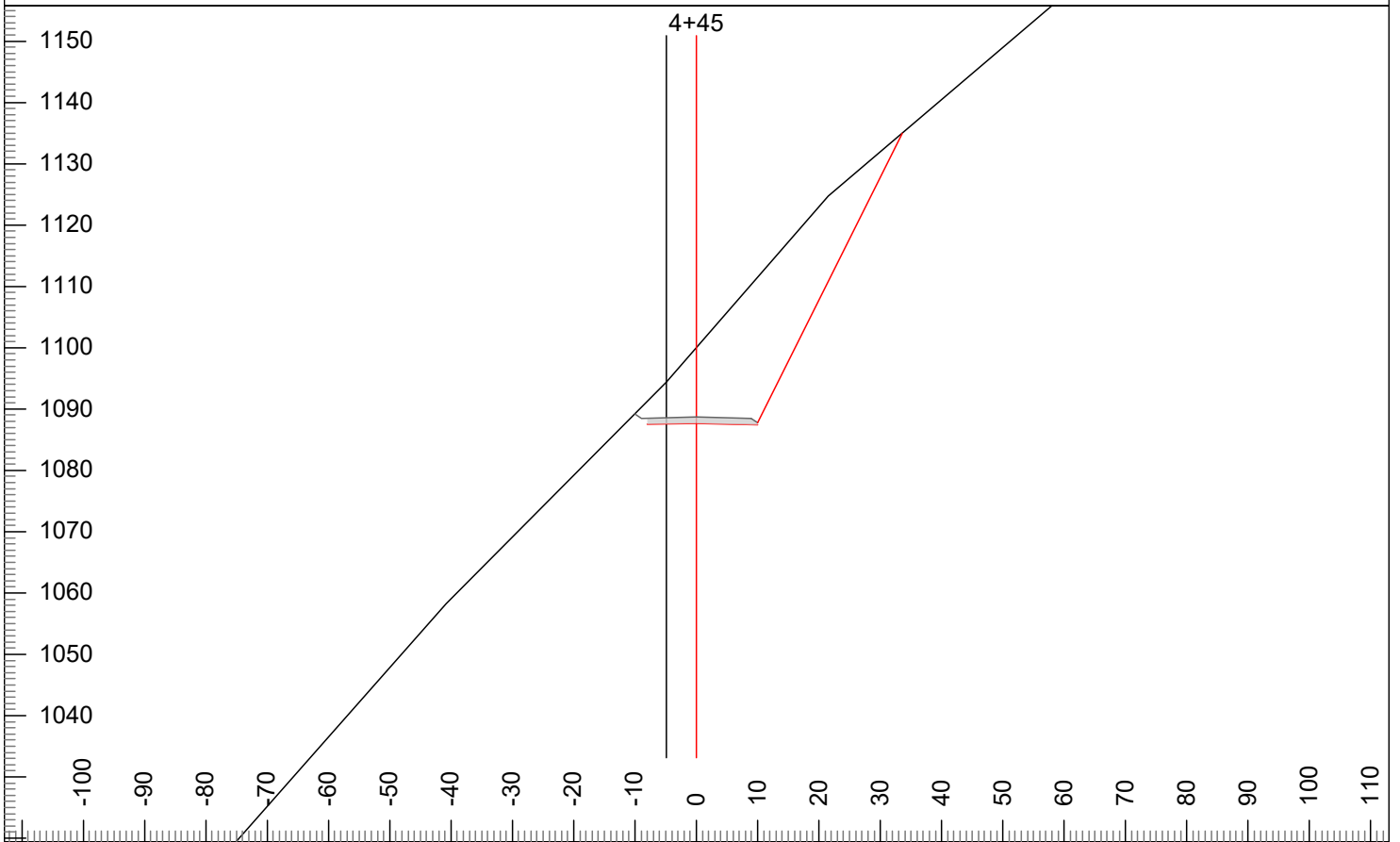
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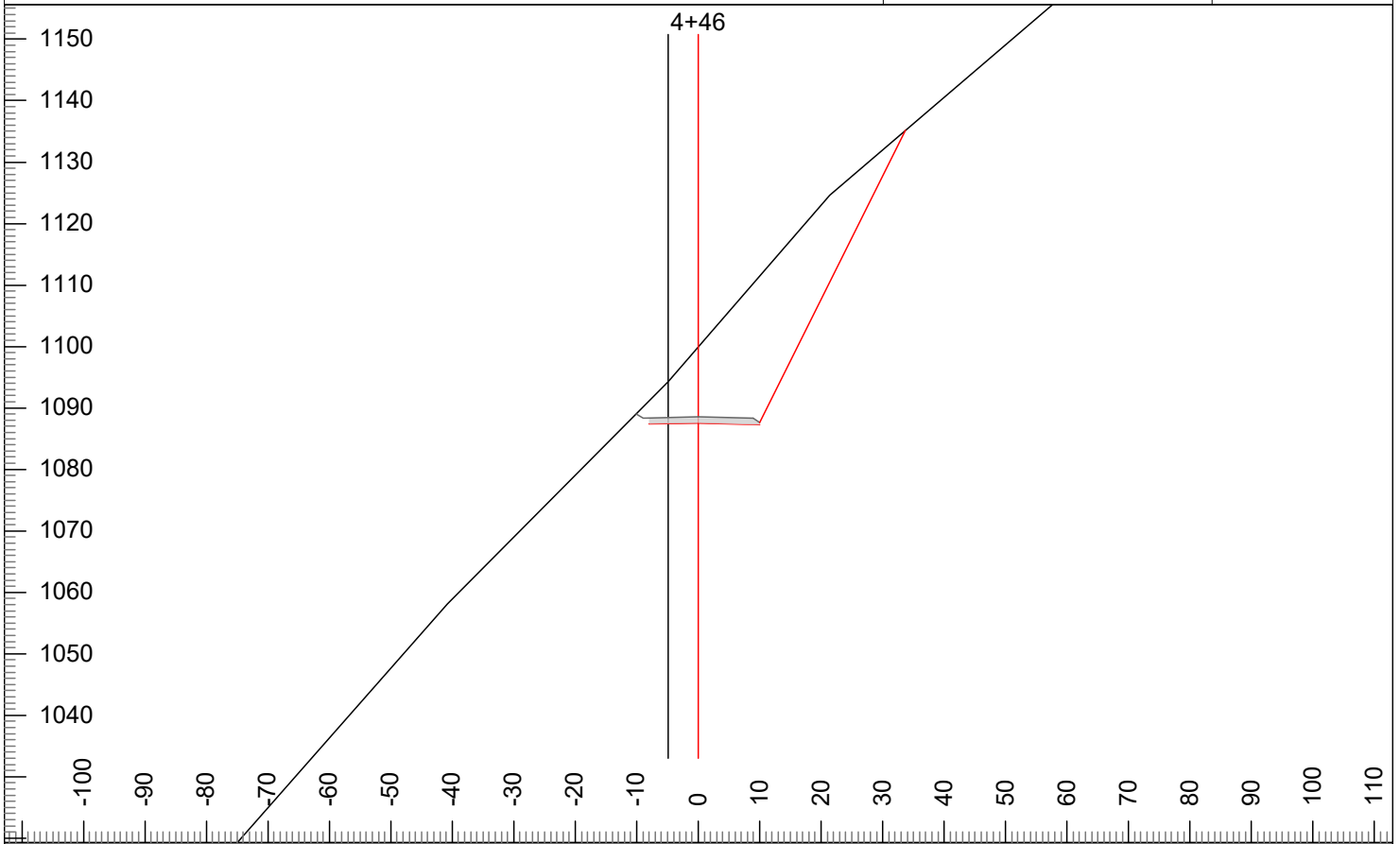
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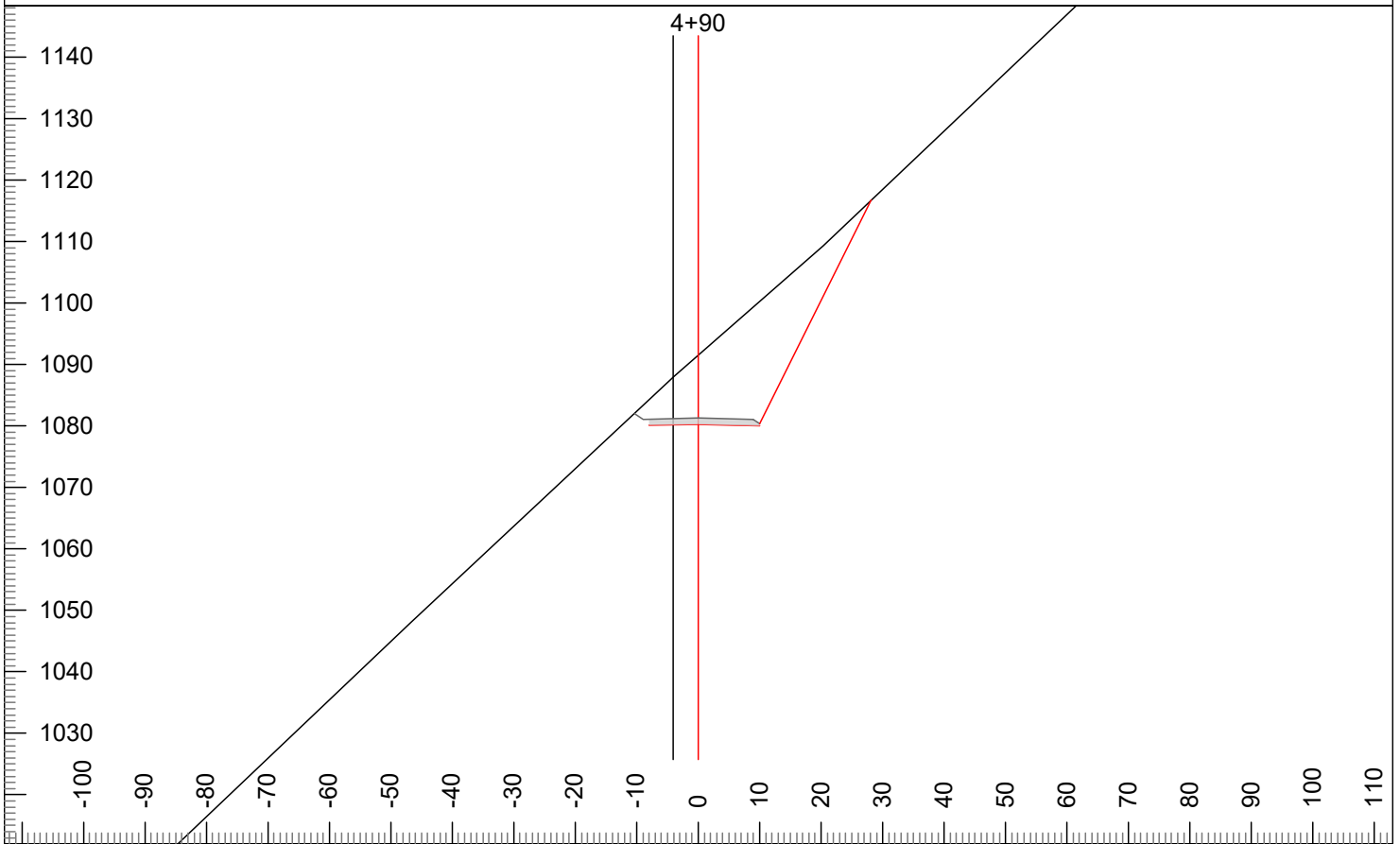
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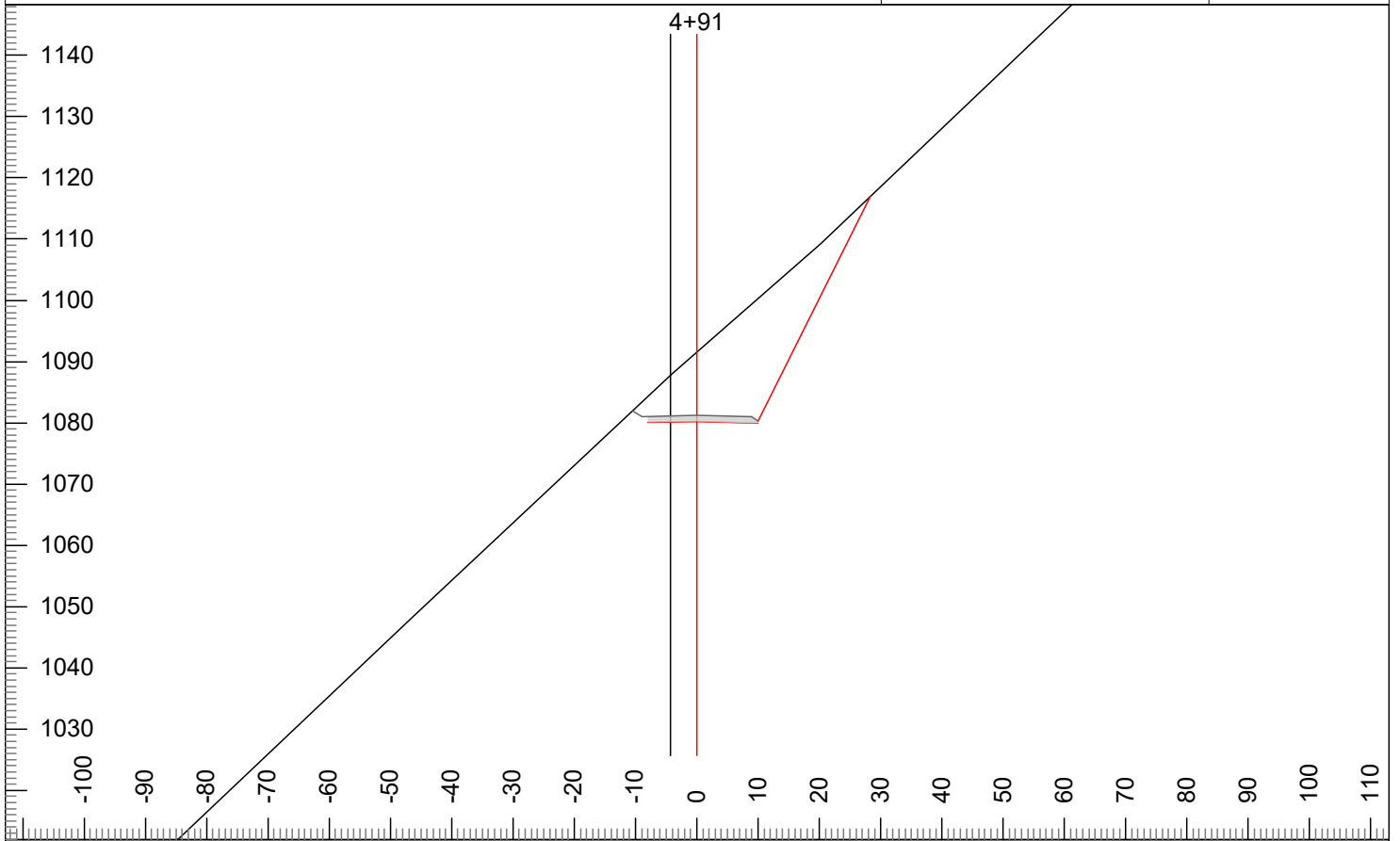
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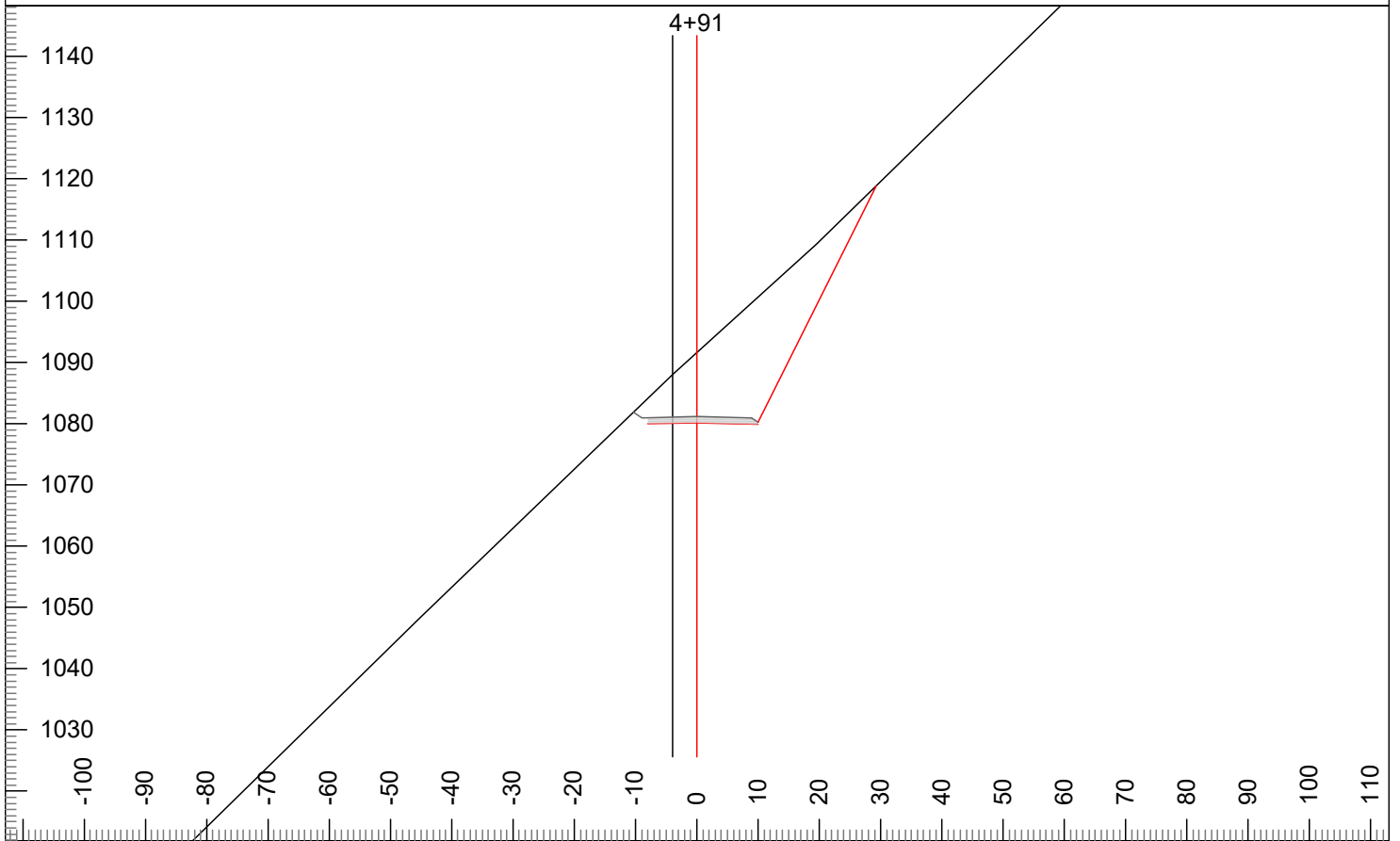
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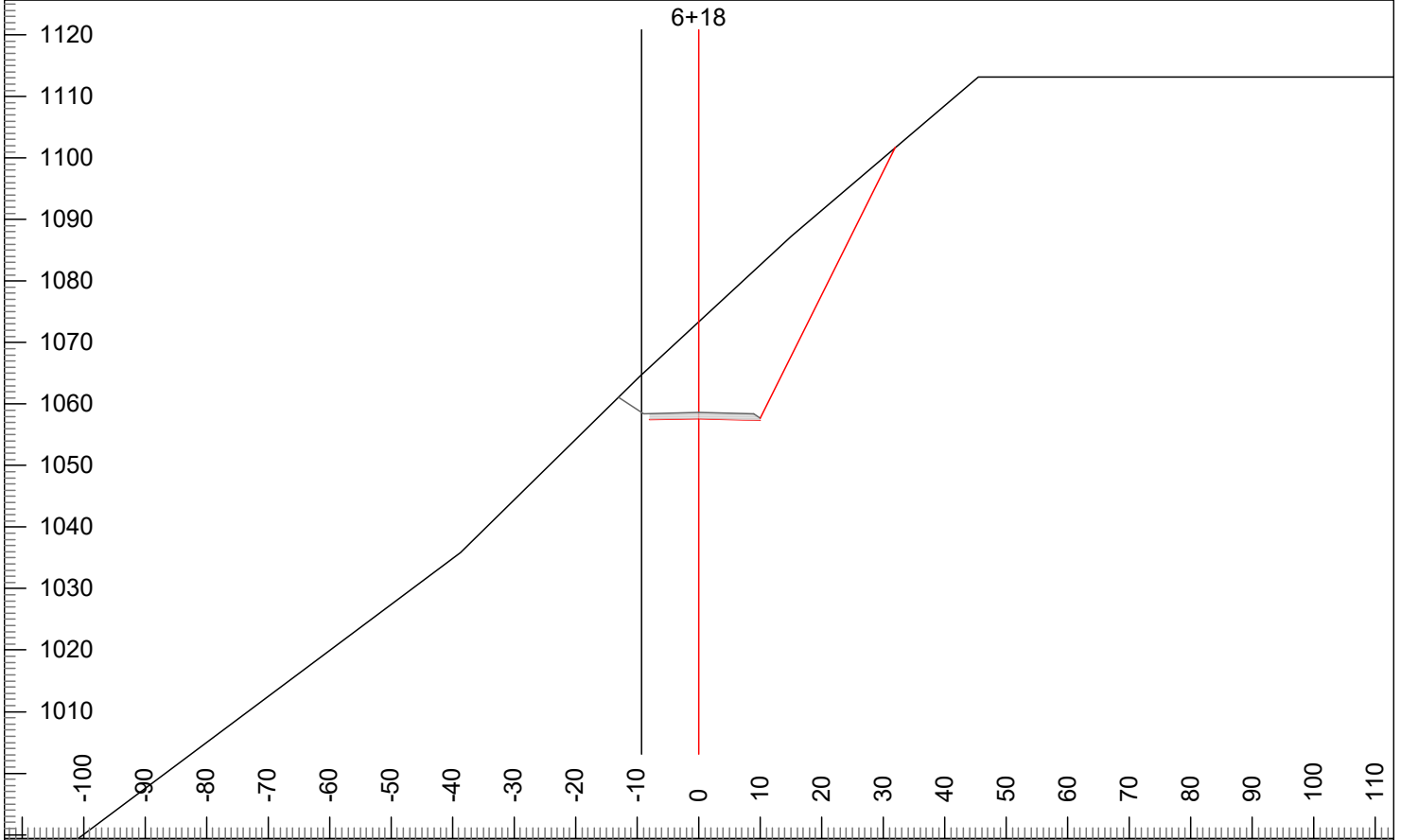
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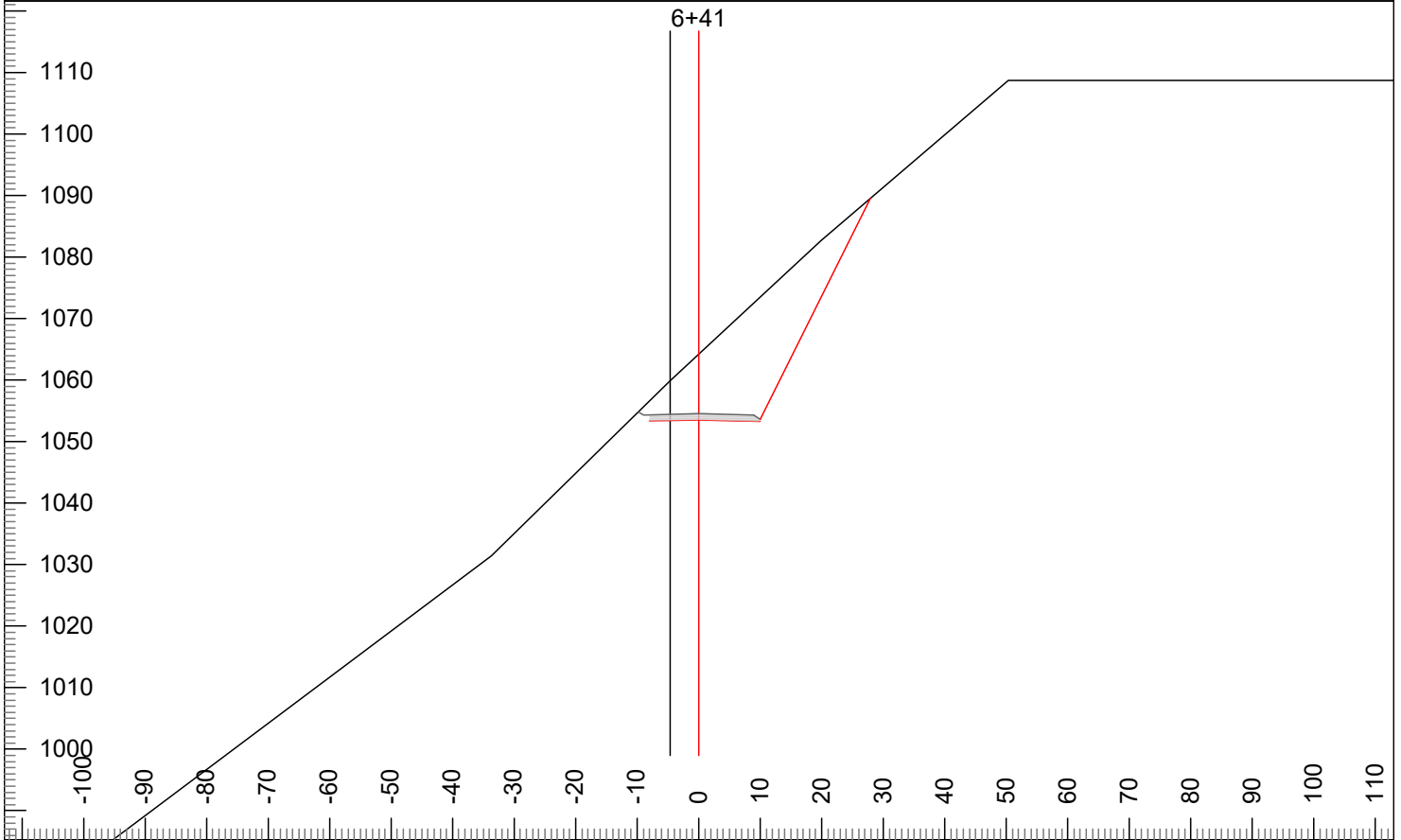
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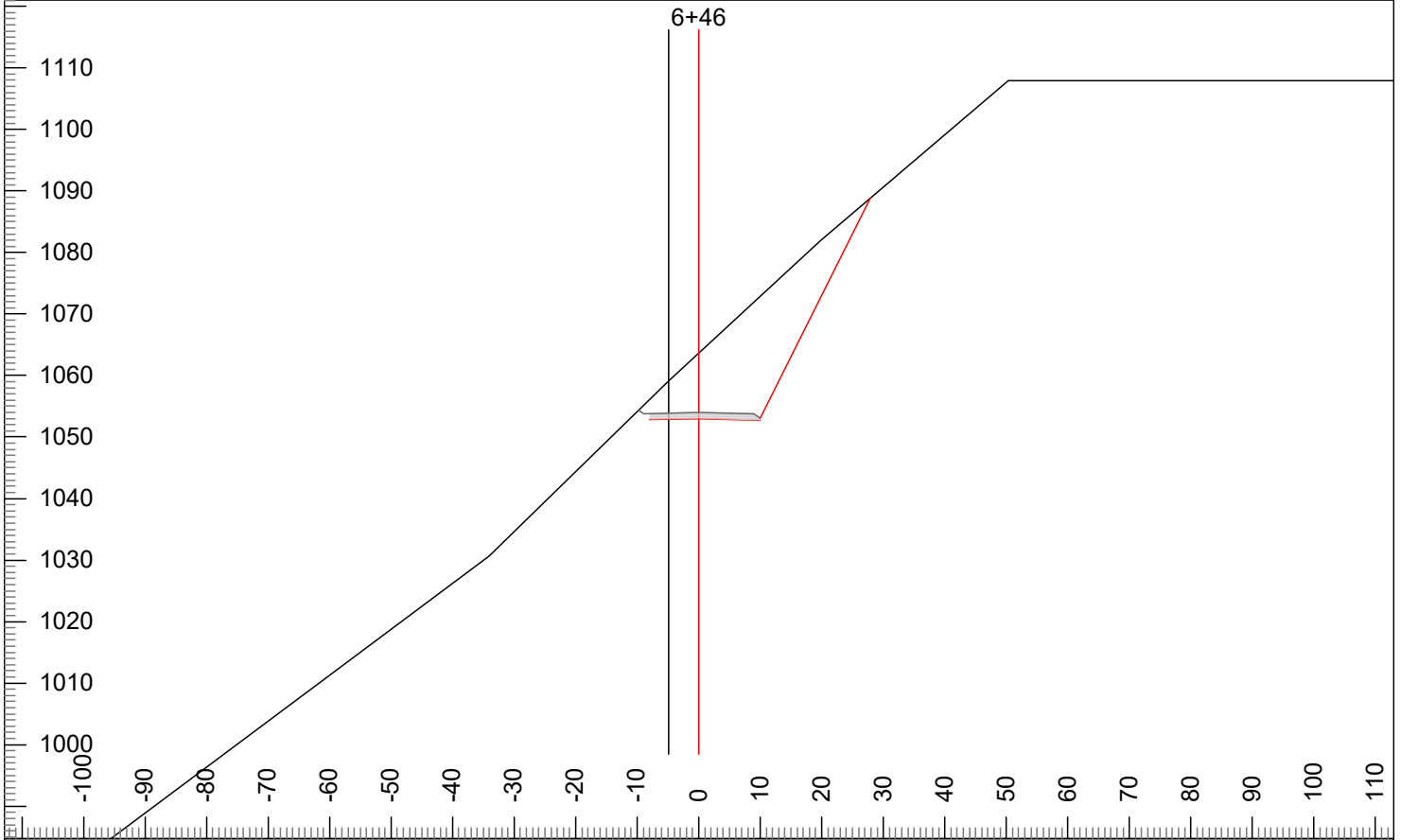
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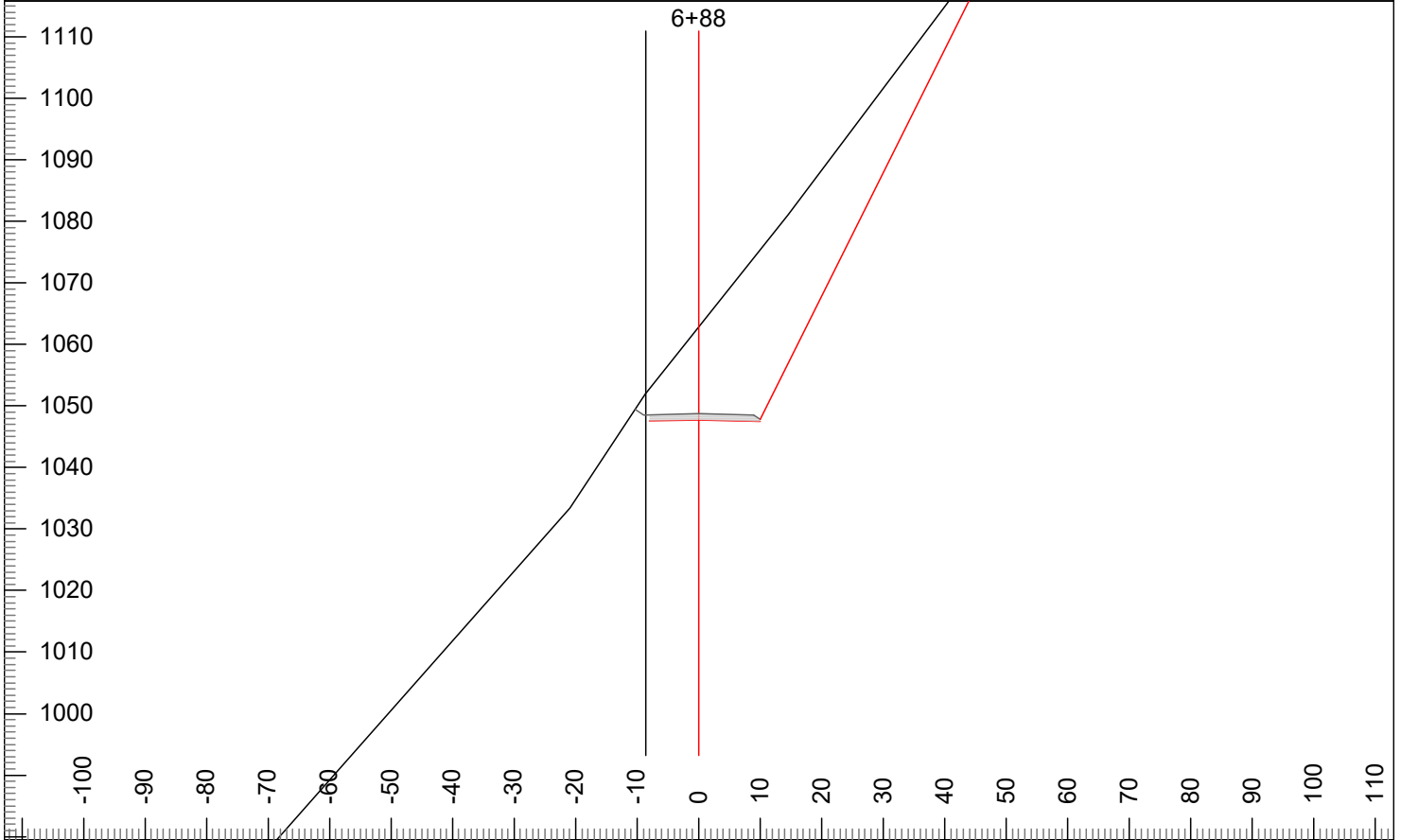
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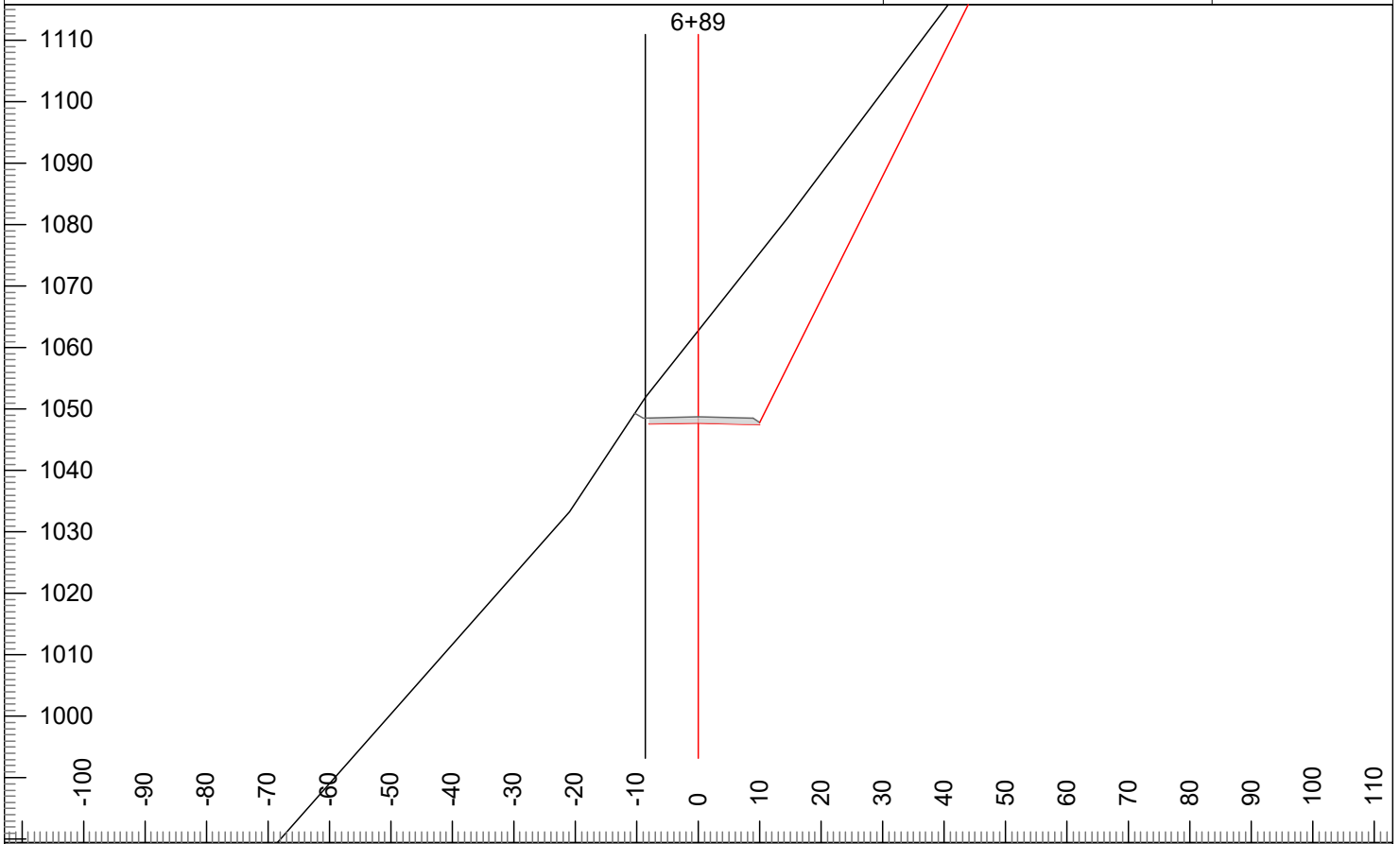
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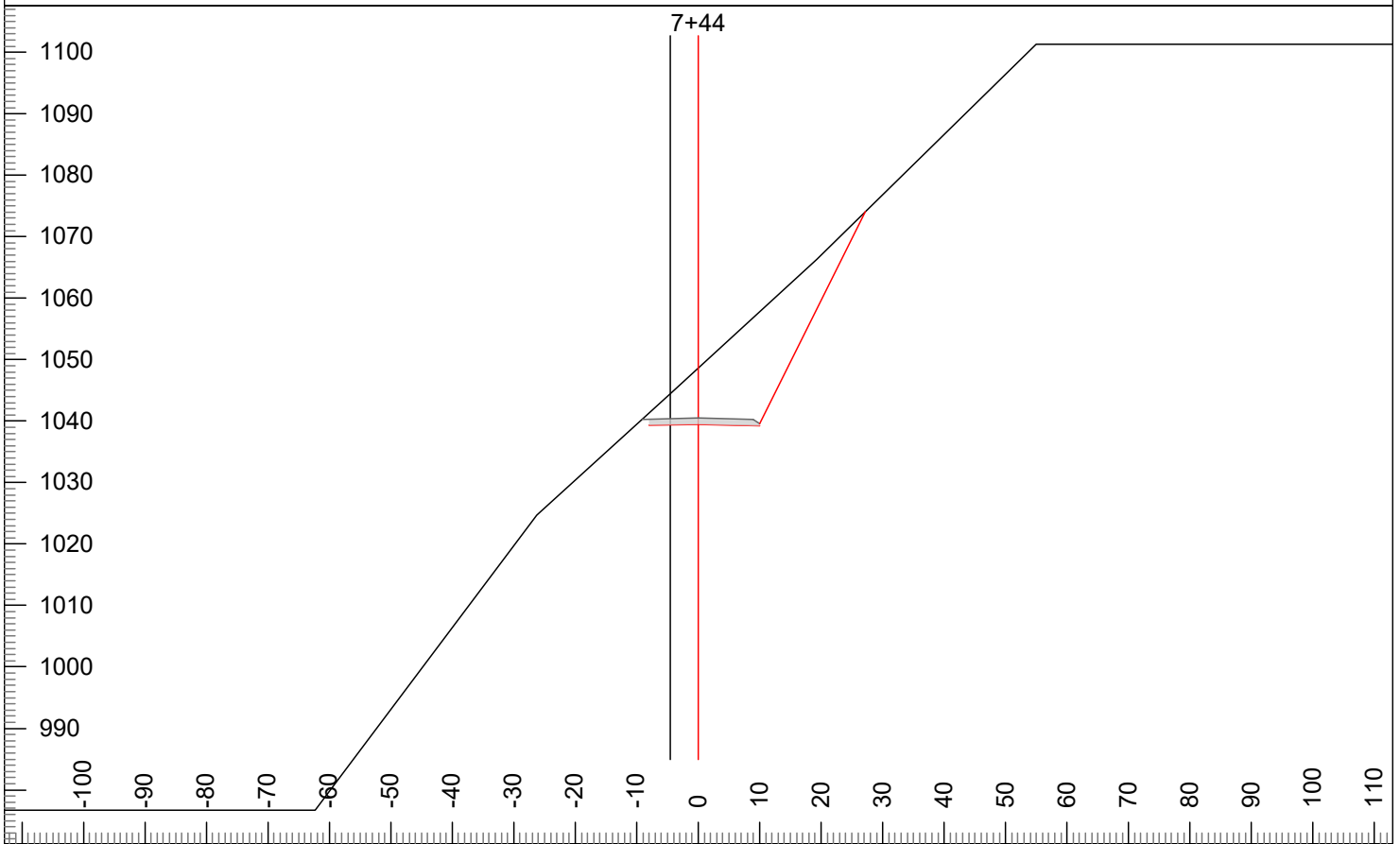
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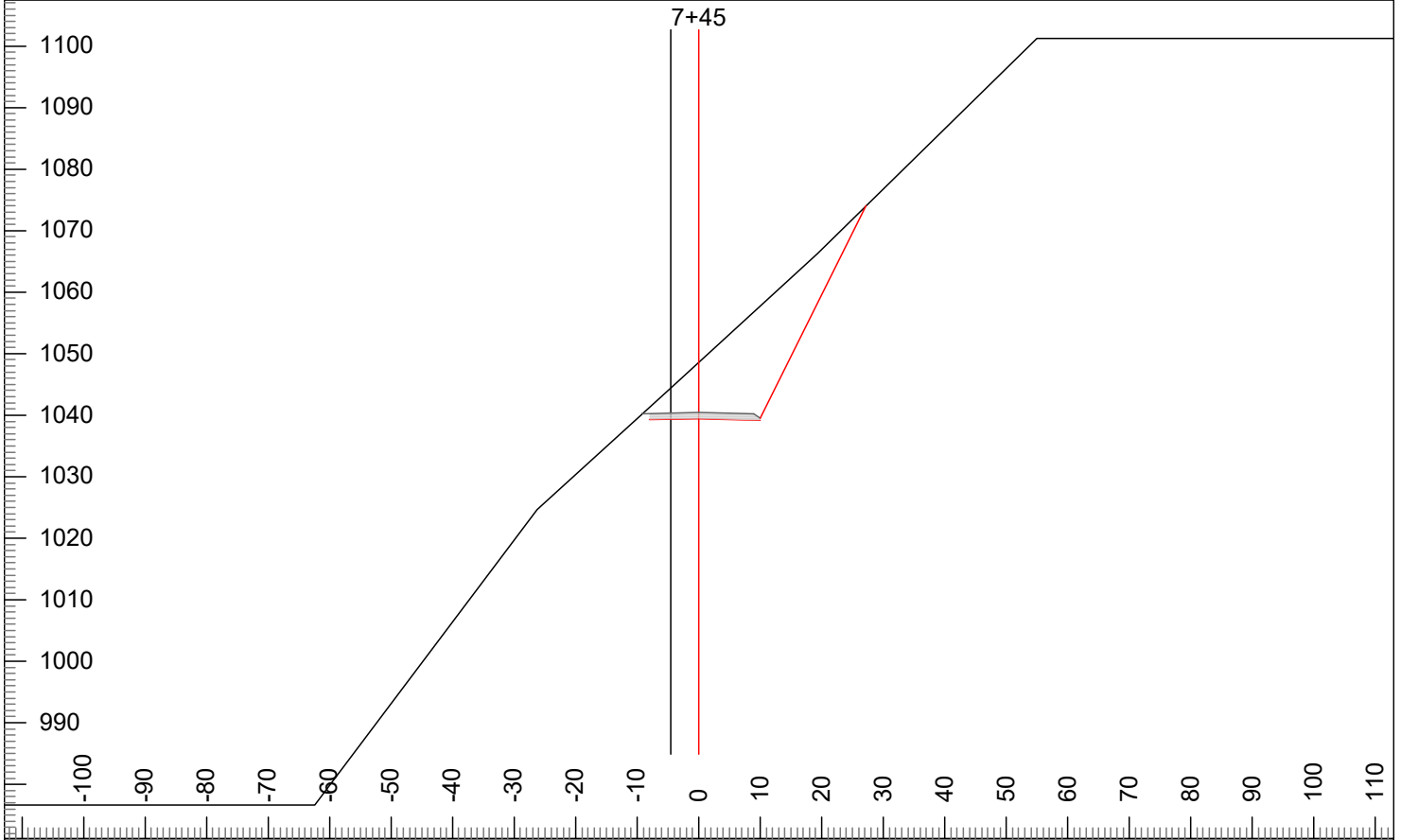
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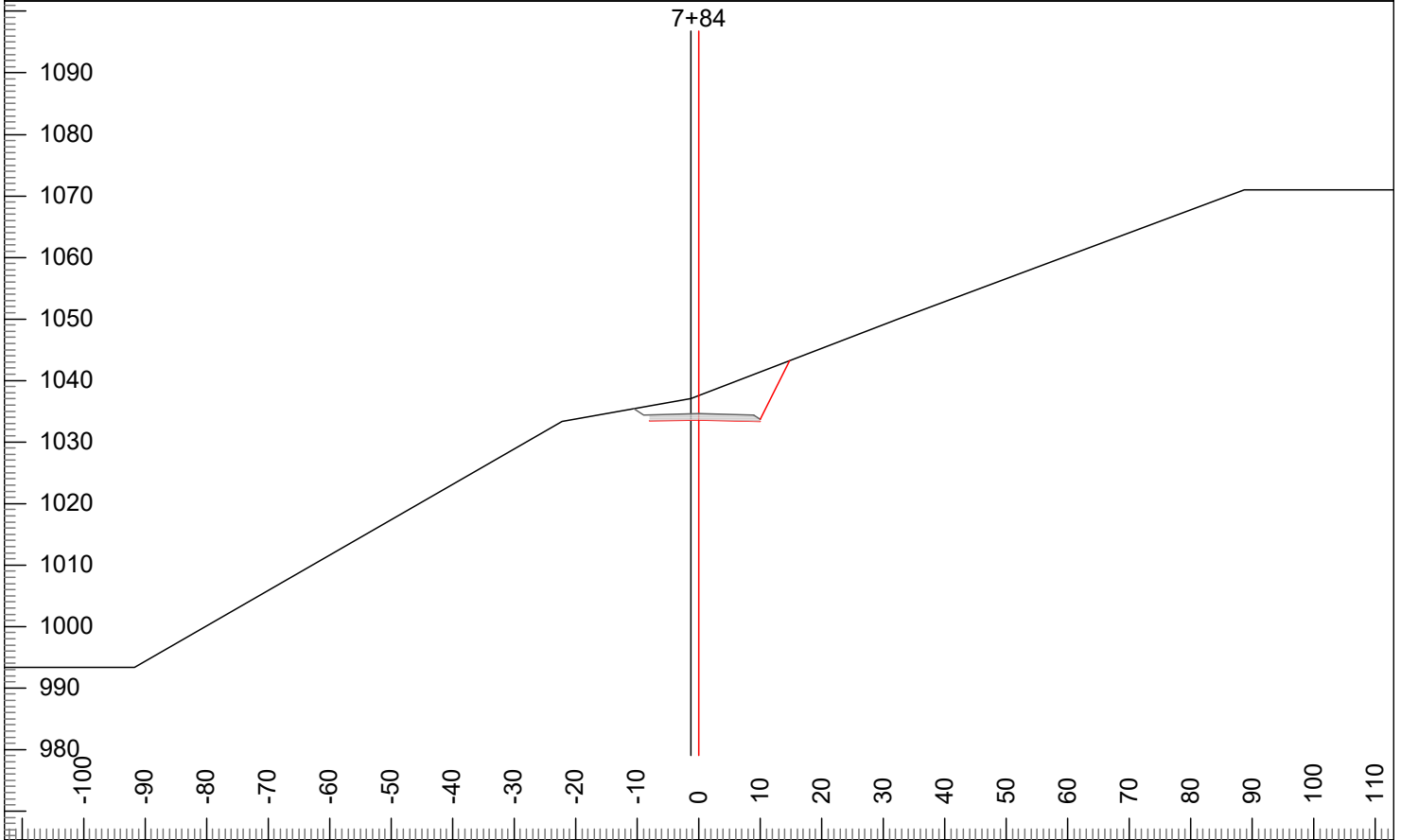
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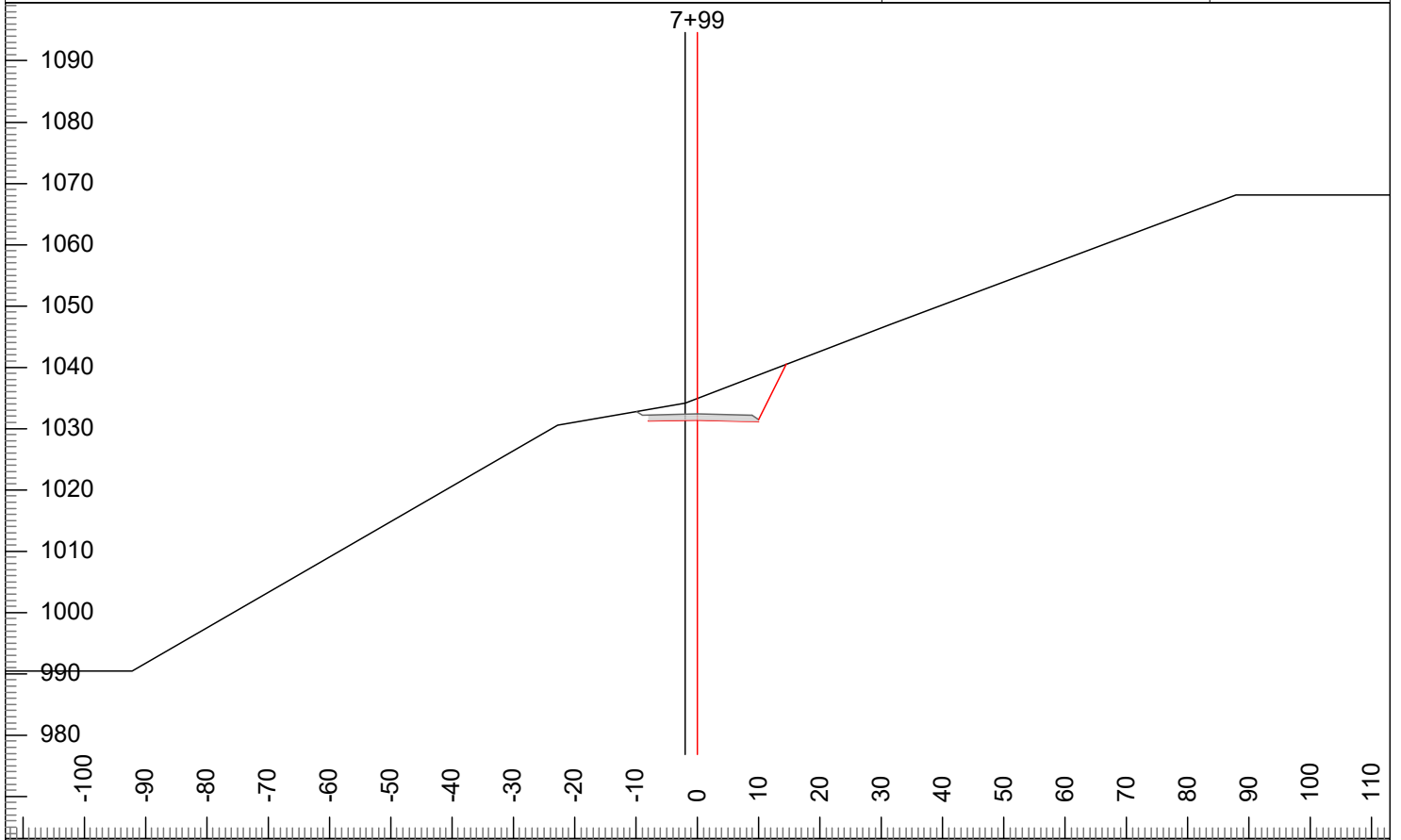
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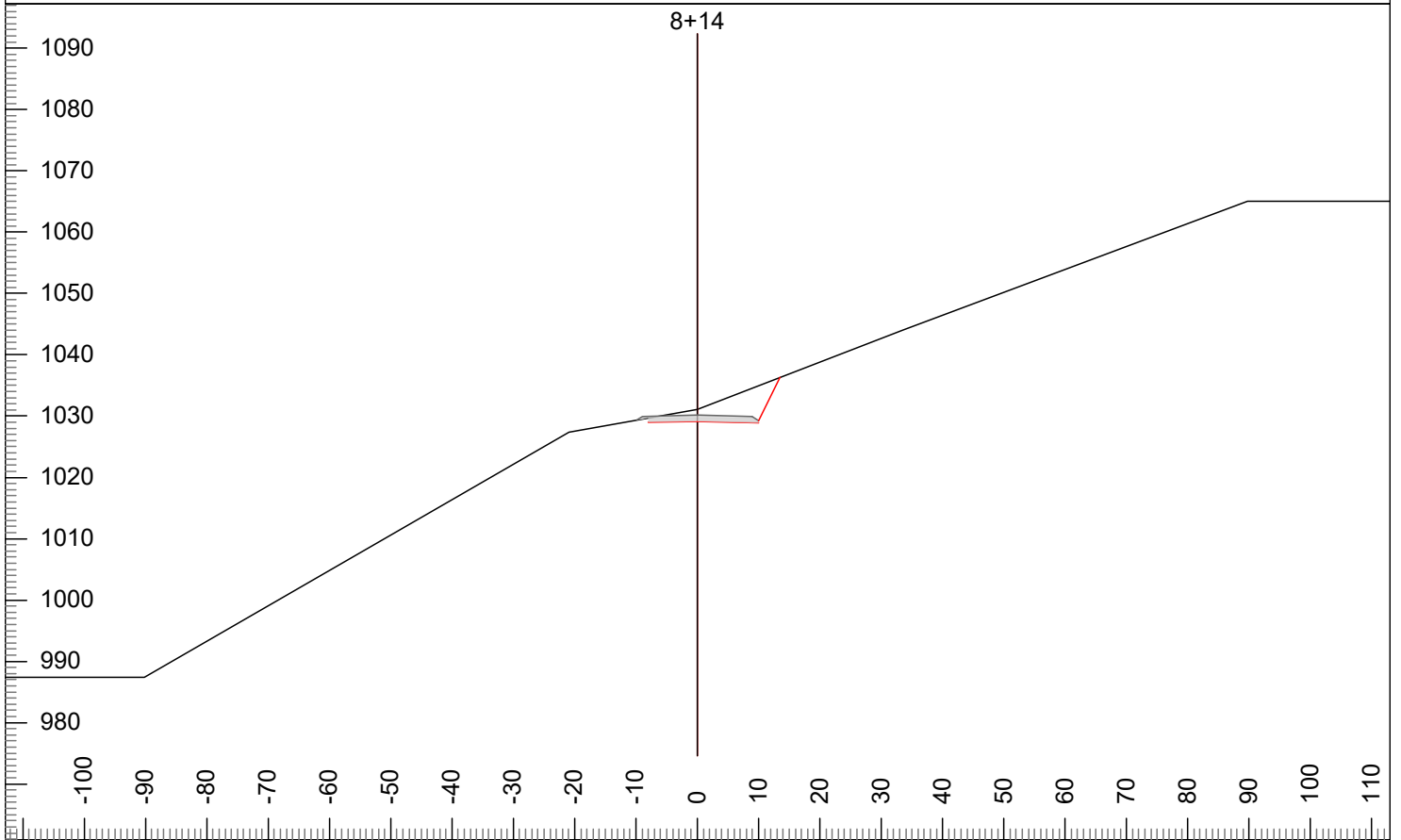
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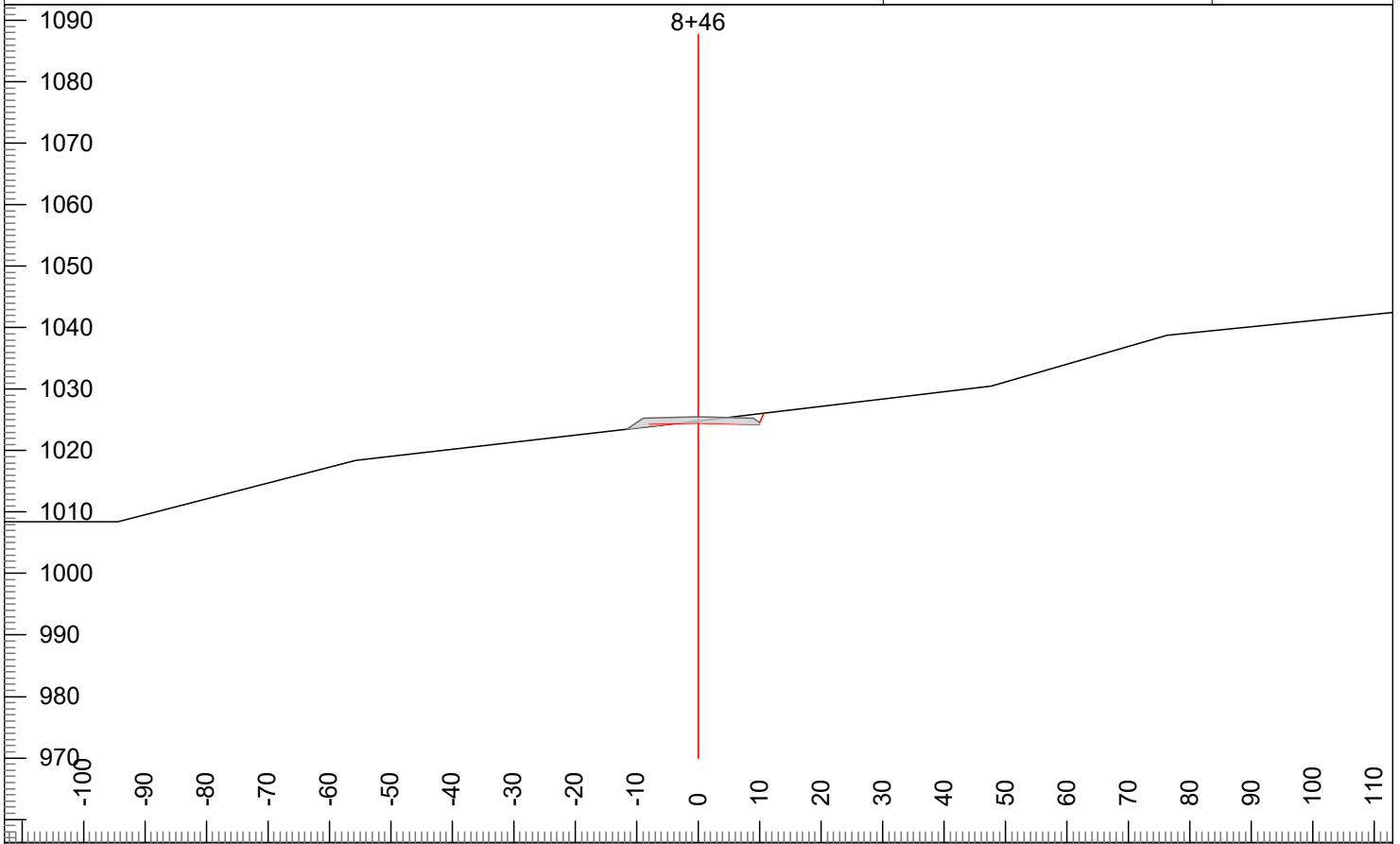
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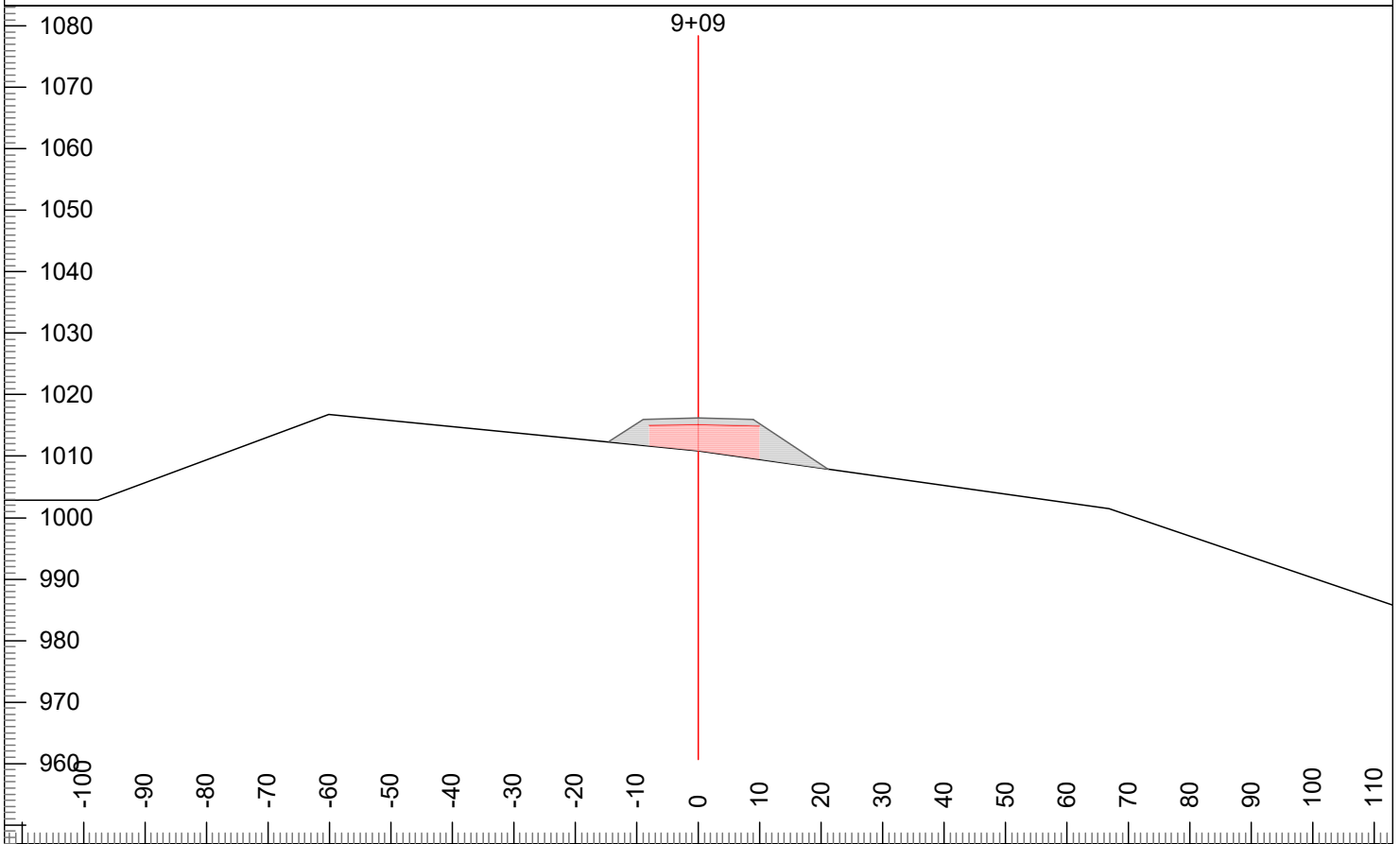
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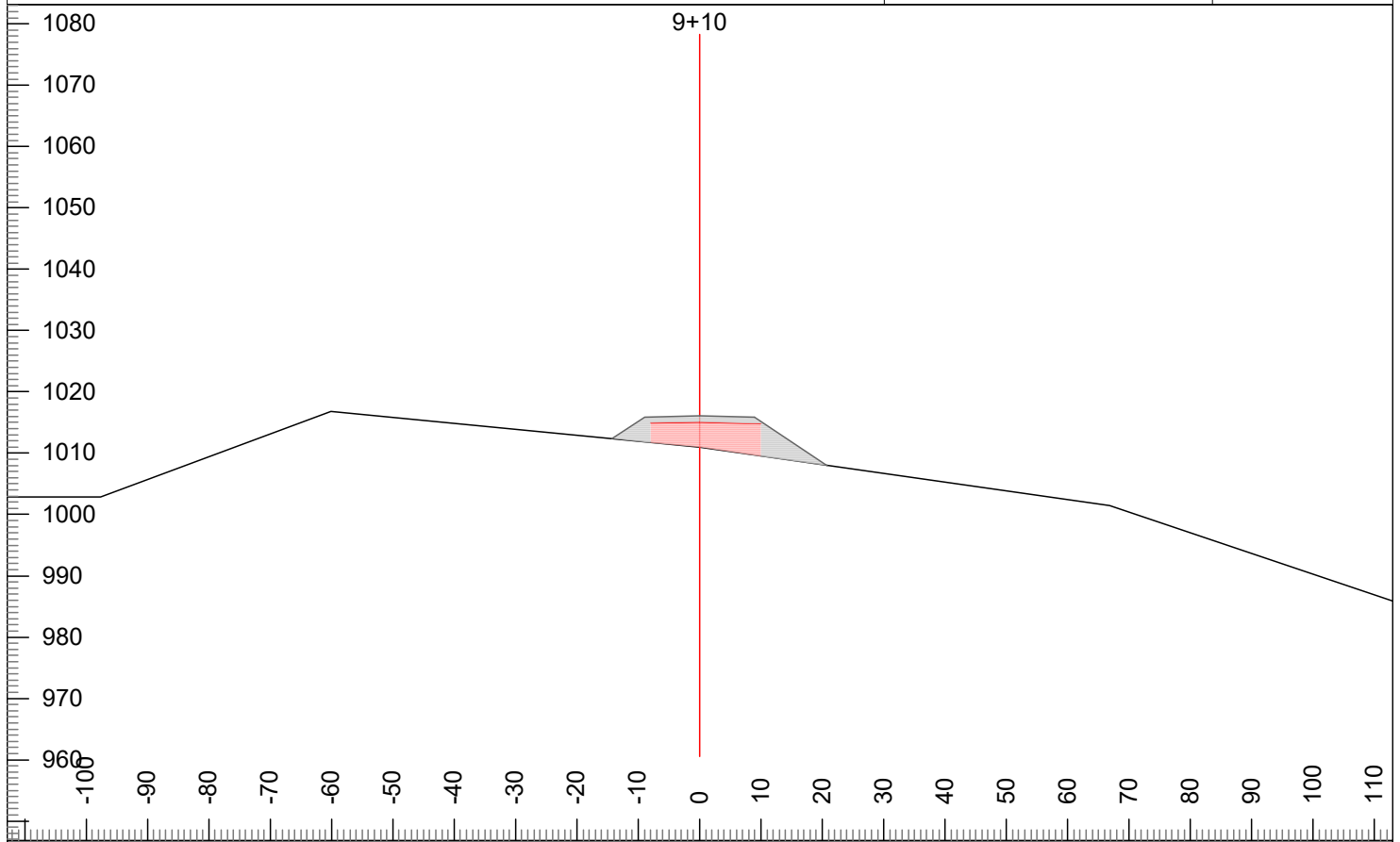
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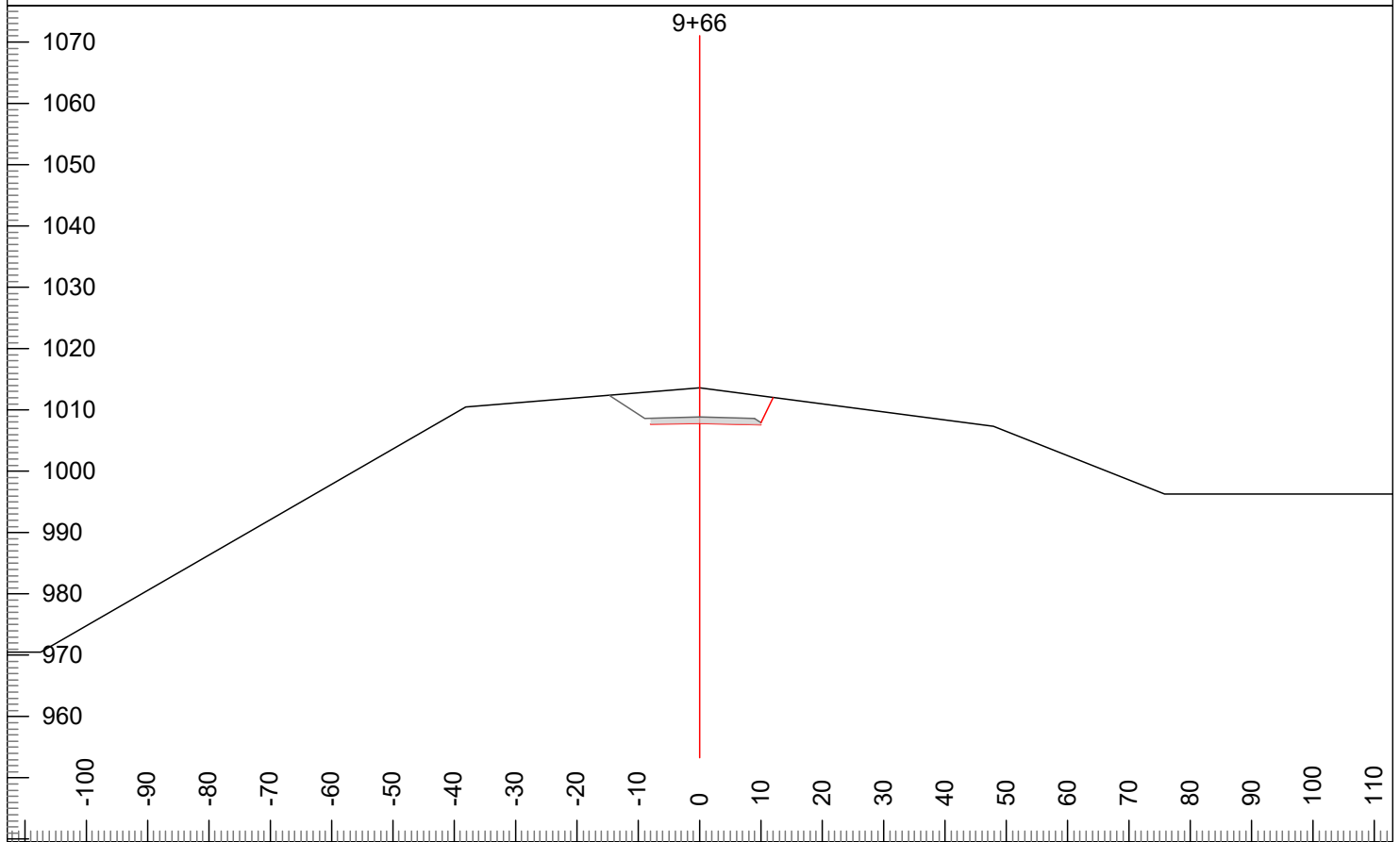
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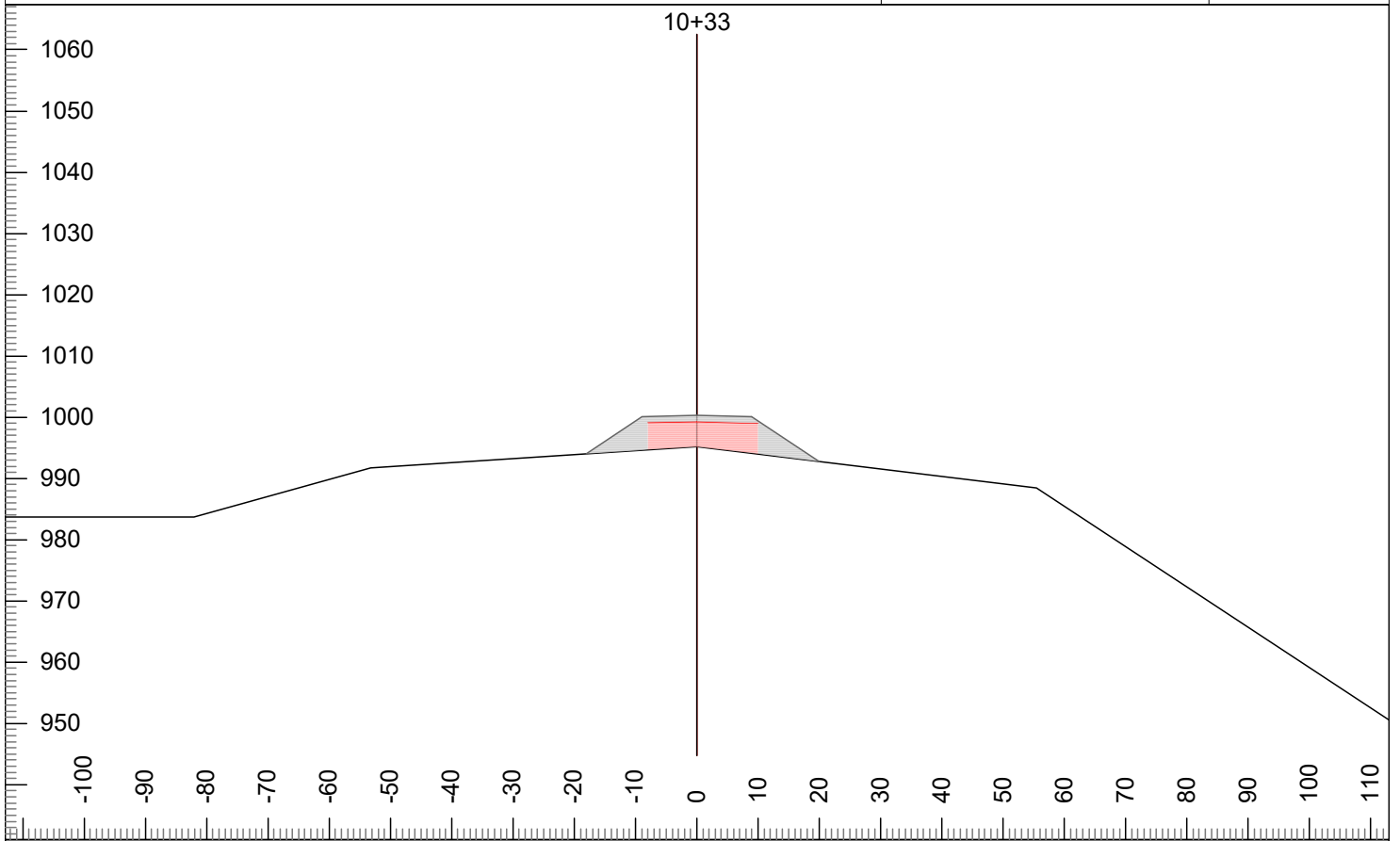
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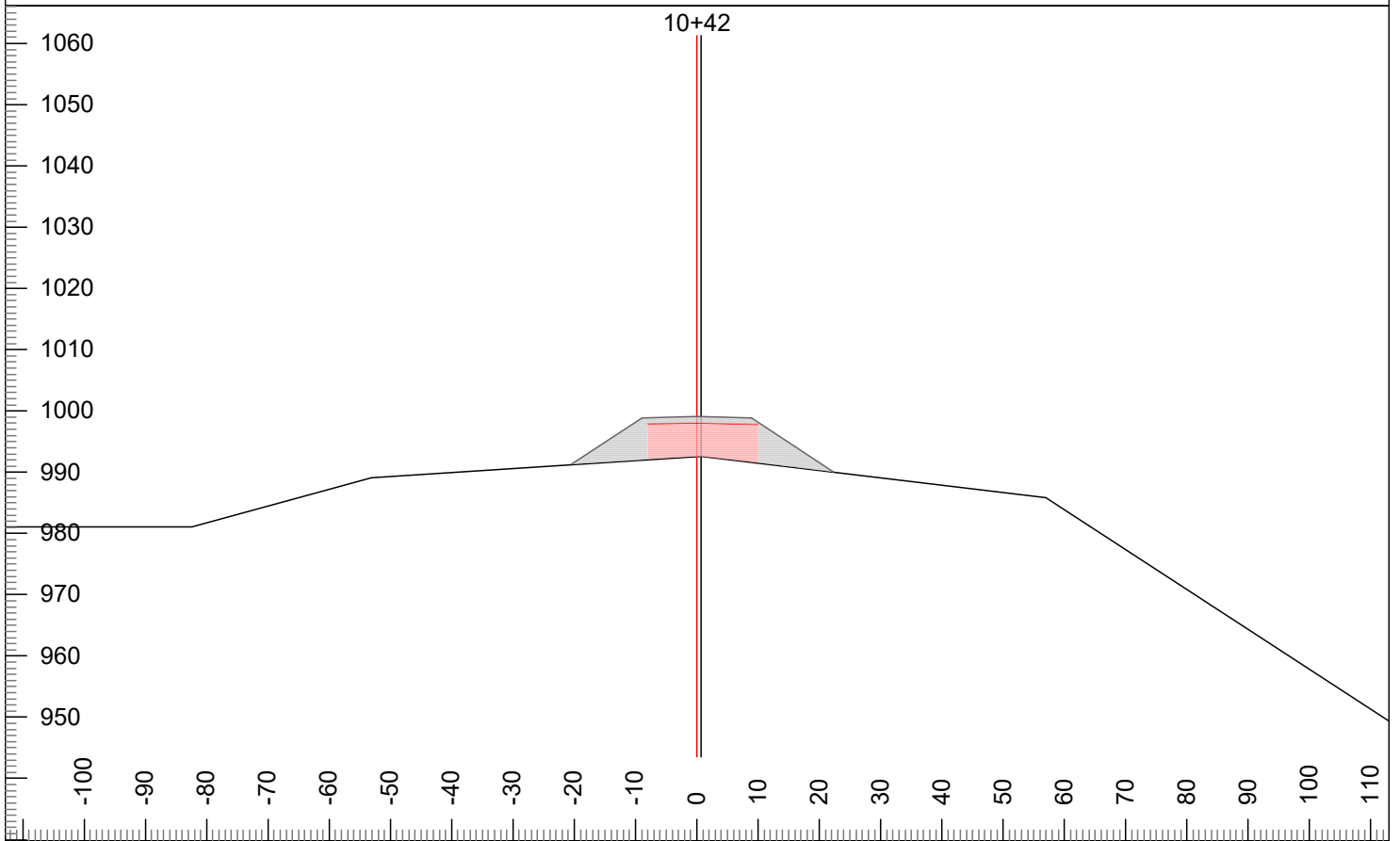
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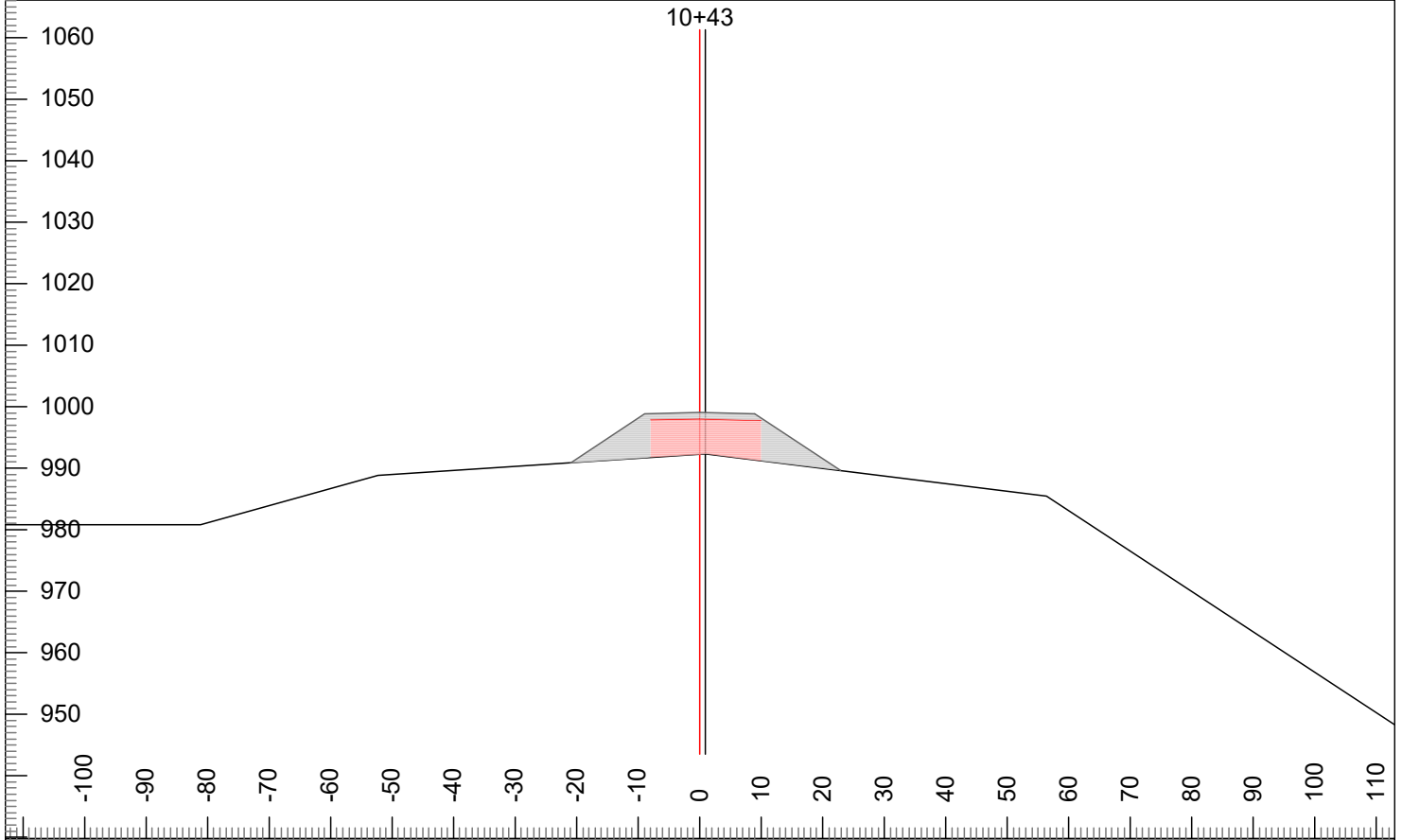
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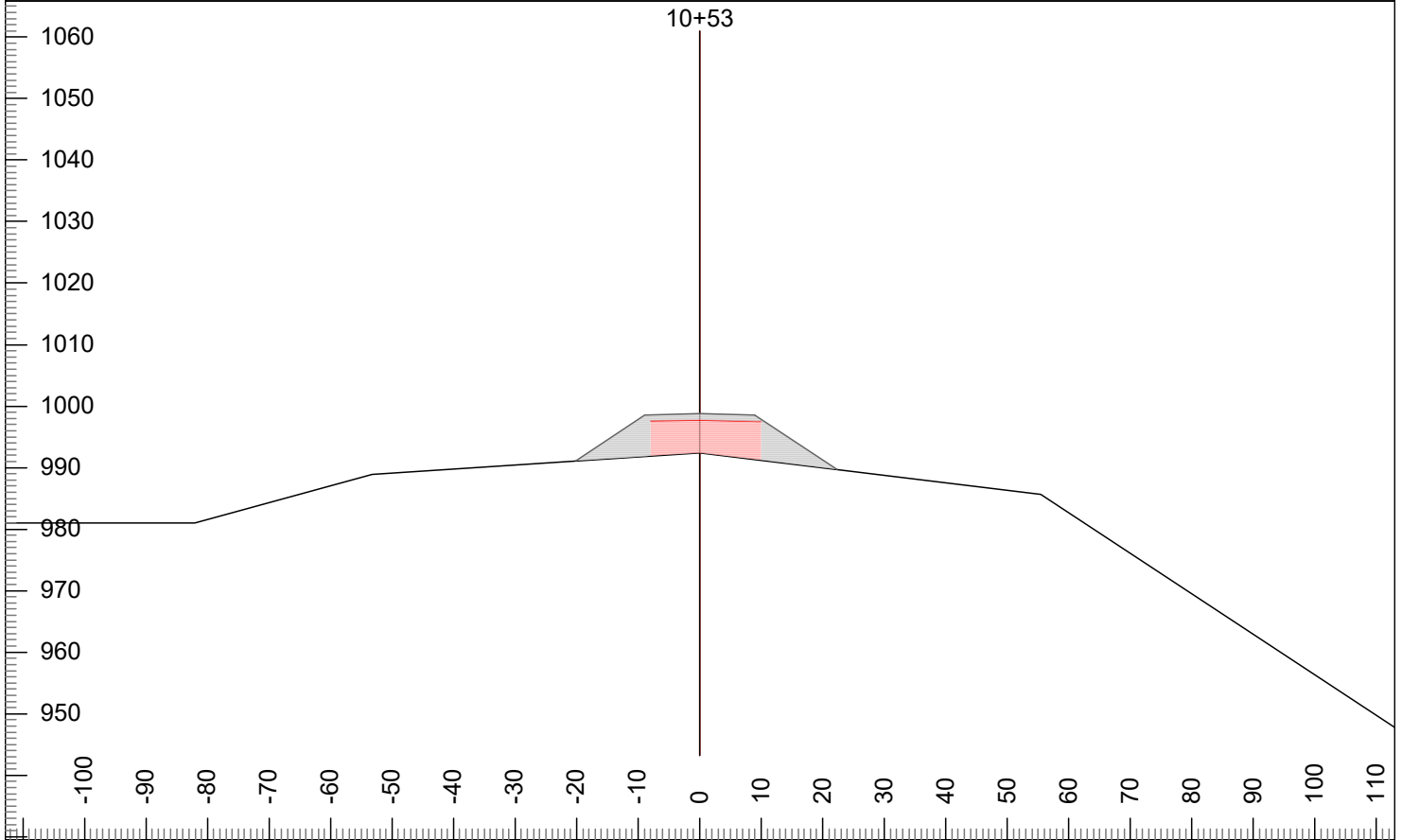
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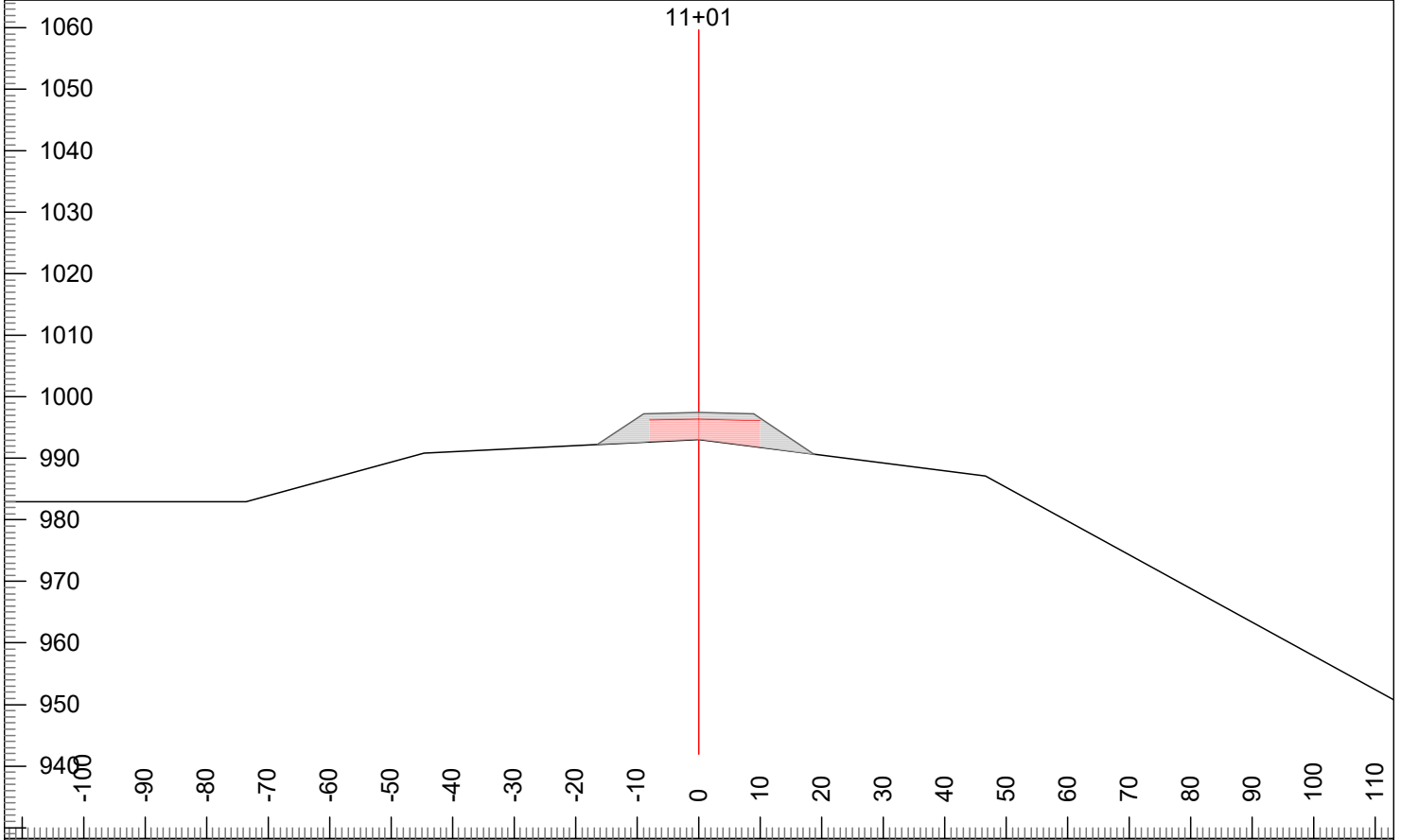
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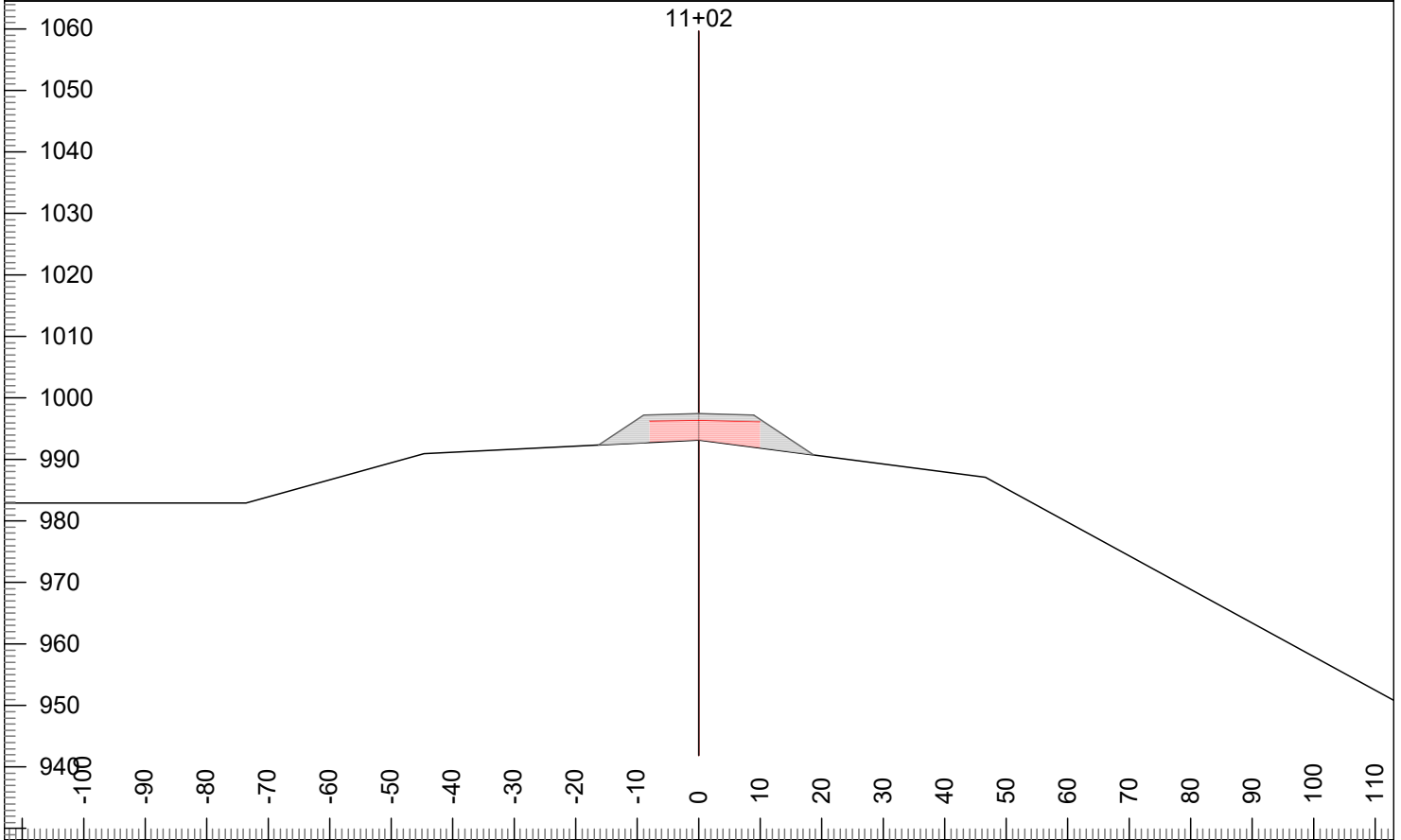
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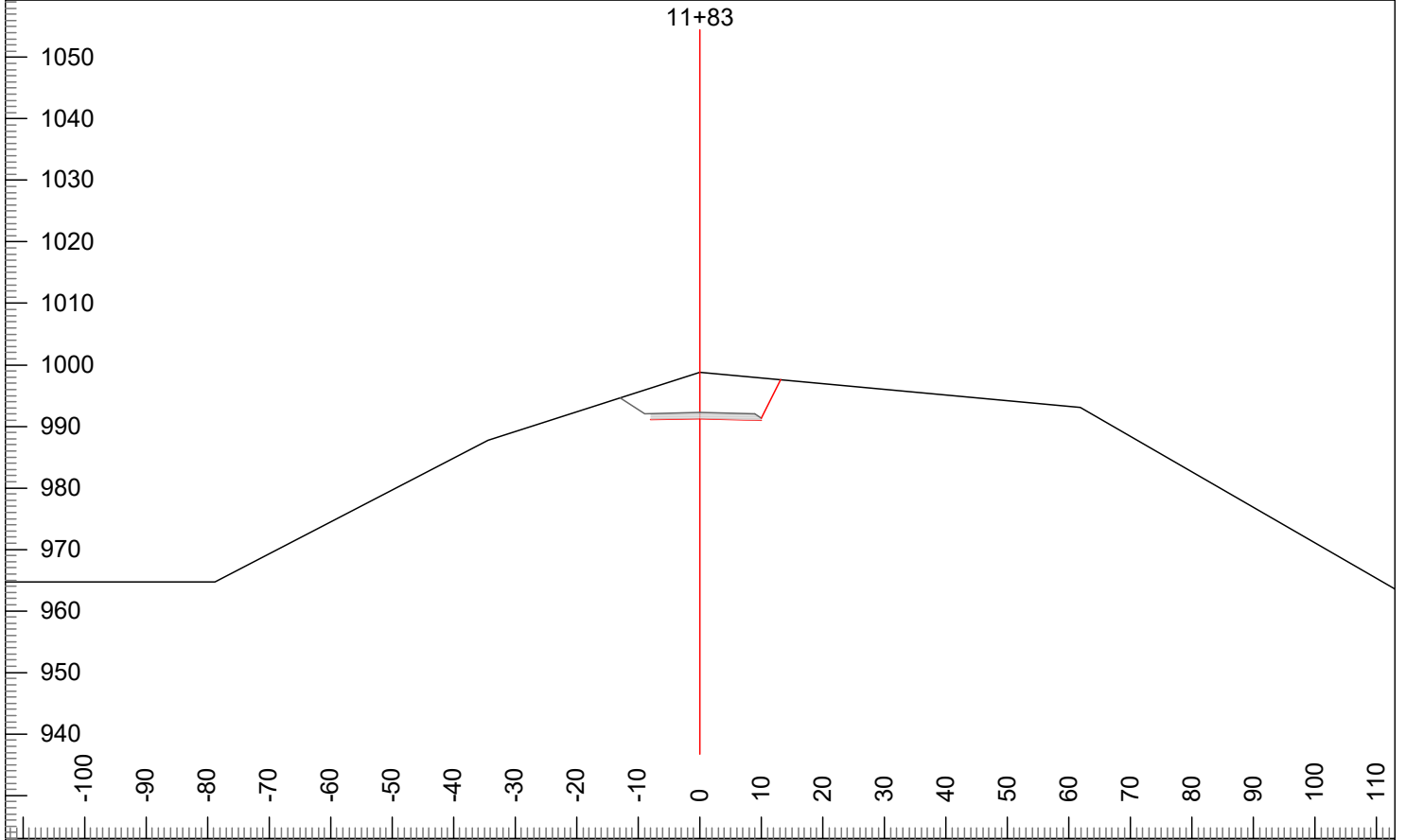
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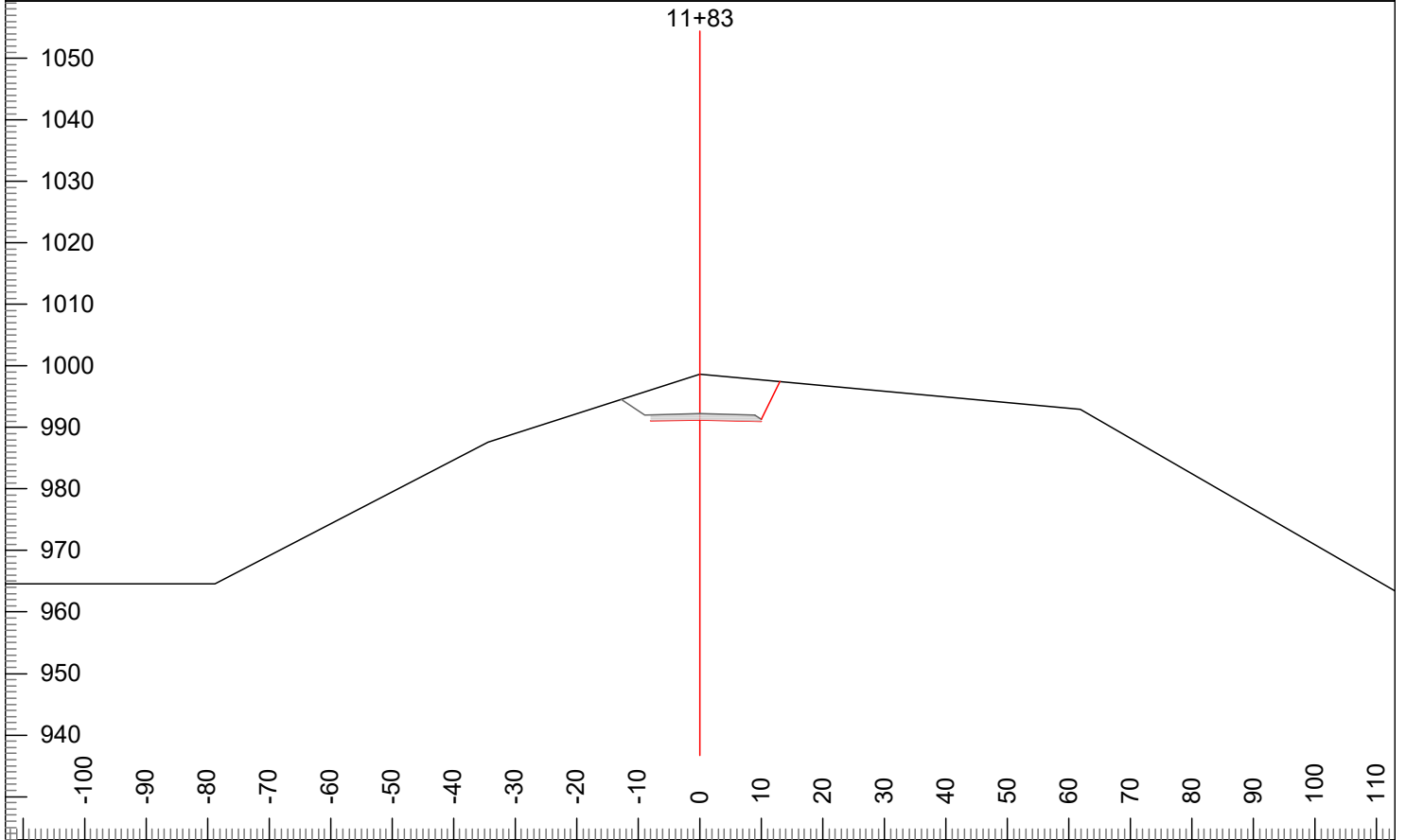
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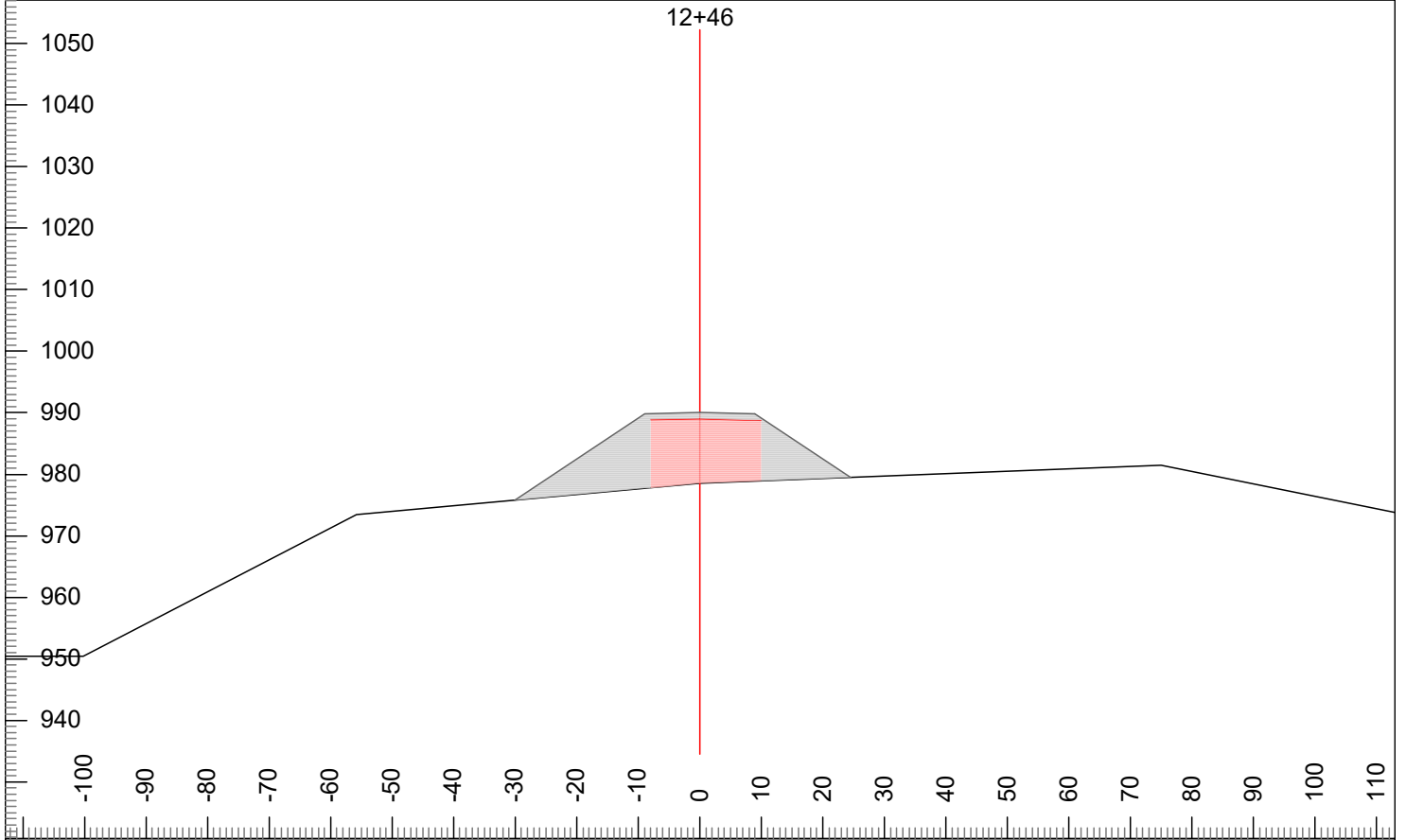
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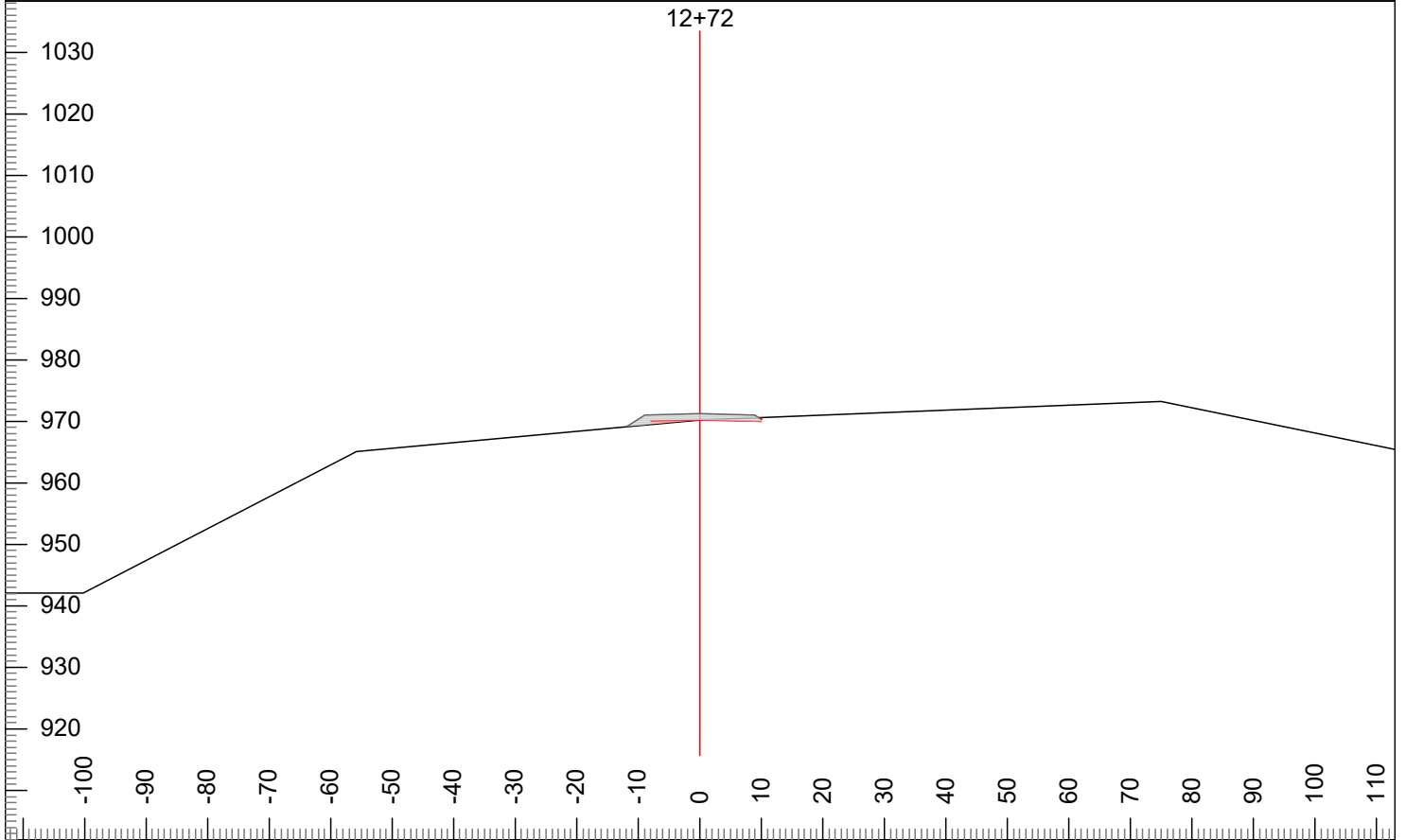
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L-Stn : 11+83 Cut Dp: 7 H. Offset: 0 CL Elev: 991 Grd.Nxt.: -3 Grd.Lst: -6



L-Stn : 12+46 Cut Dp: -10 H. Offset: 0 CL Elev: 989 Grd.Nxt.: n/a Grd.Lst: -3



L-Stn : 12+72 Cut Dp: 0 H. Offset: 0 CL Elev: 970 Grd.Nxt.: n/a Grd.Lst: -73

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

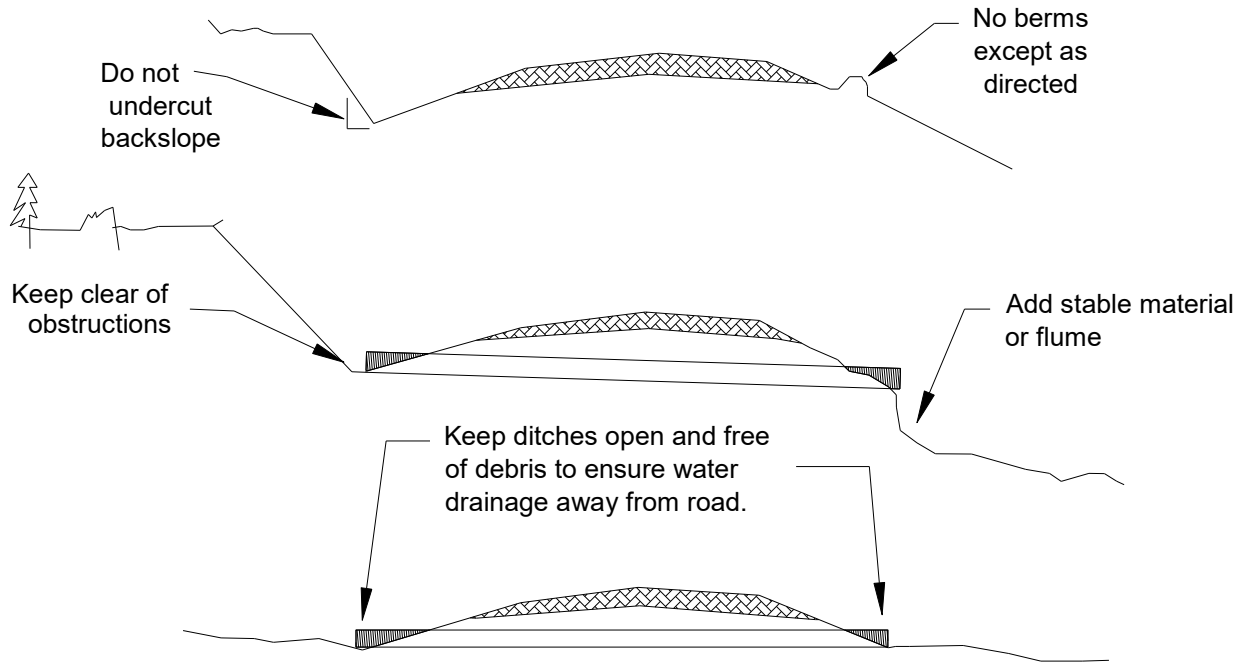
Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

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

Debris

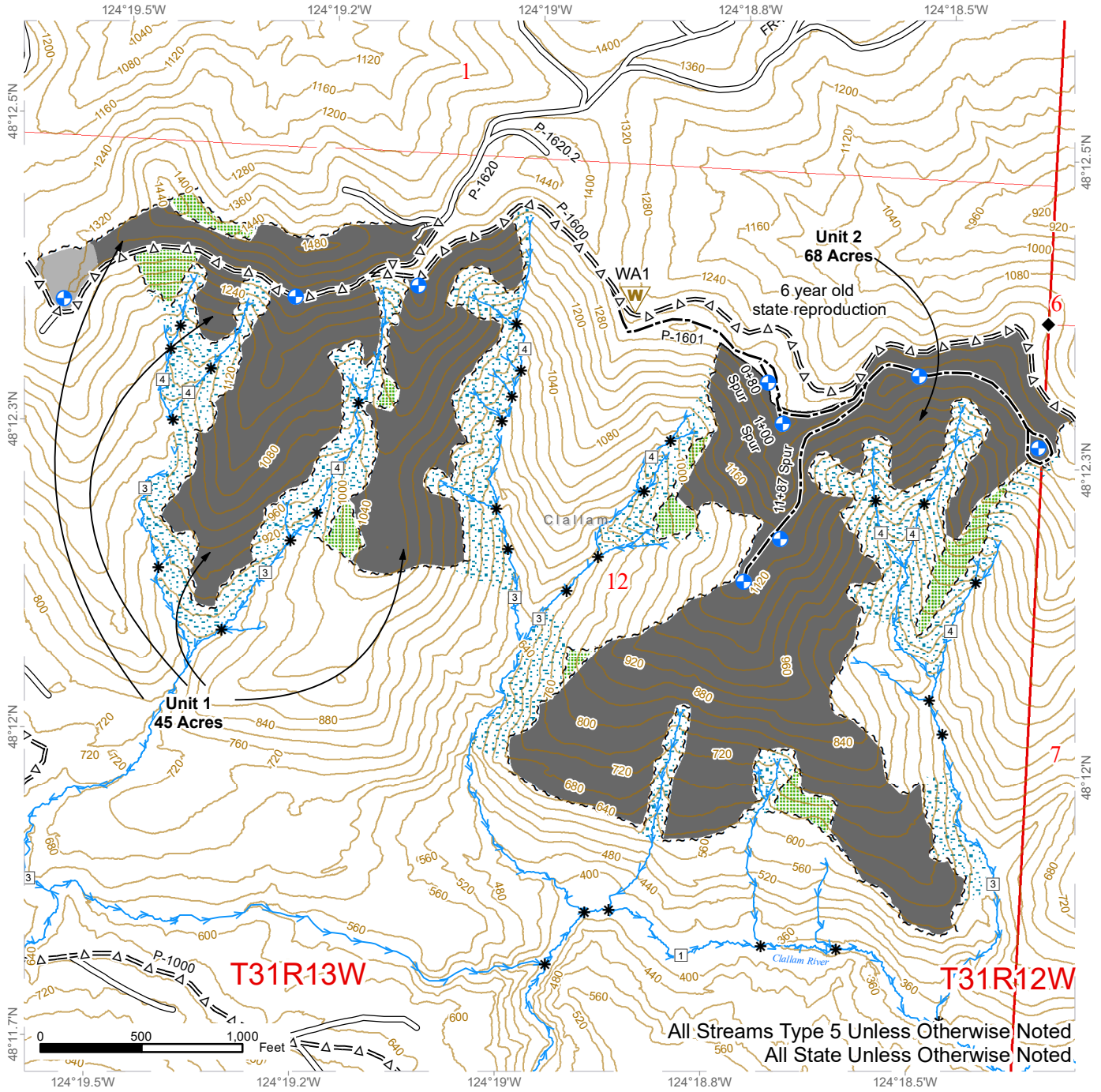
Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



LOGGING PLAN MAP

SALE NAME: RIDGE RUN
AGREEMENT#: 30-103766
TOWNSHIP(S): T31 R13W, T31 R12W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 500'-1500'



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

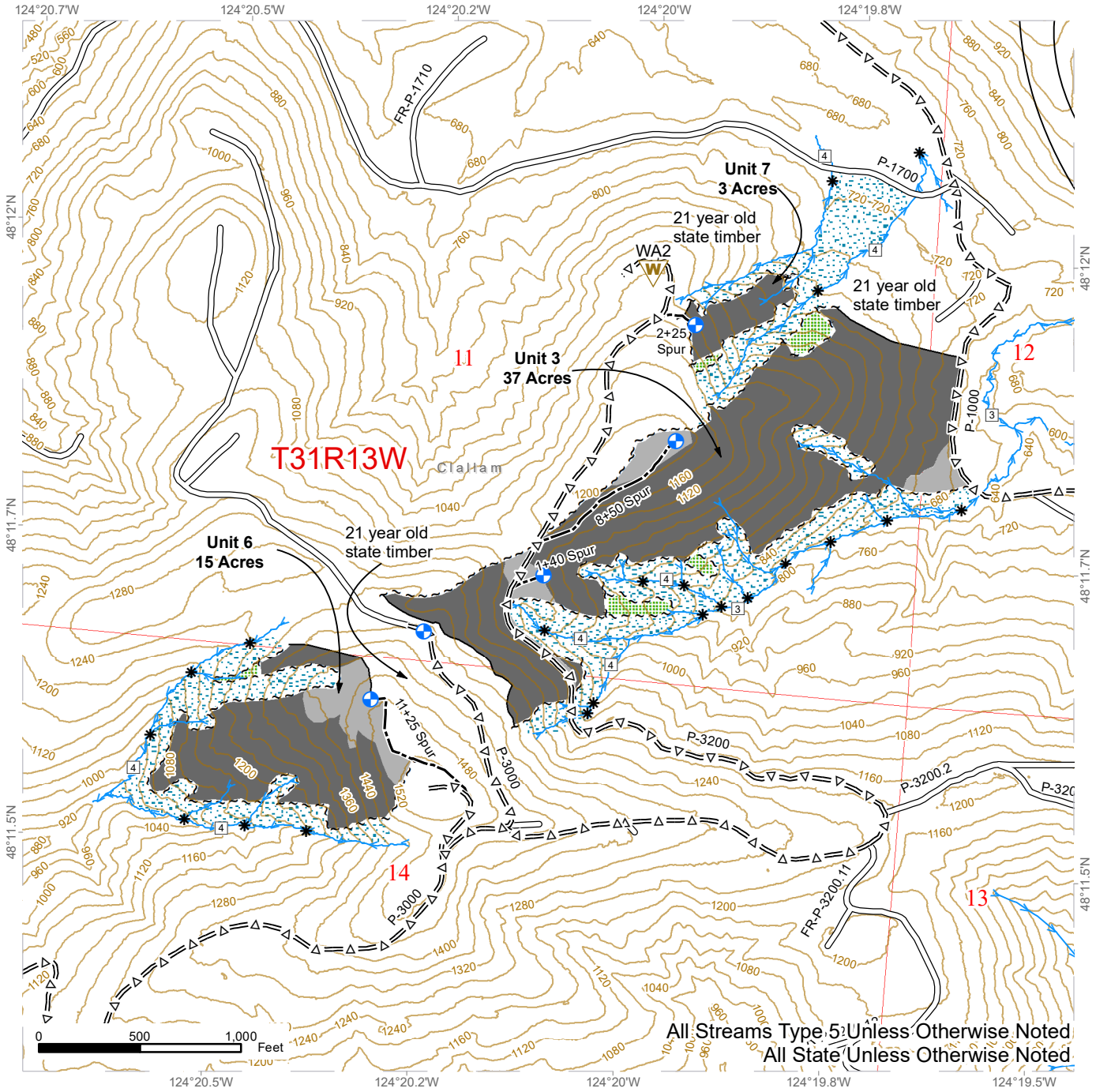
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— Timber Type Change	Waste Area	Riparian Mgt Zone
~ ~ ~ Leave Tree Tags	Streams	Contours 40 ft
Existing Roads	Stream Type	Ground
Optional Pre-Haul Maintenance	Stream Type Break	Cable
Optional Construction	Survey Monument	Public Land Survey Townships
Designated Skid Trail		Public Land Survey Sections



LOGGING PLAN MAP

SALE NAME: RIDGE RUN
AGREEMENT#: 30-103766
TOWNSHIP(S): T31 R13W, T31 R12W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 500'-1500'



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

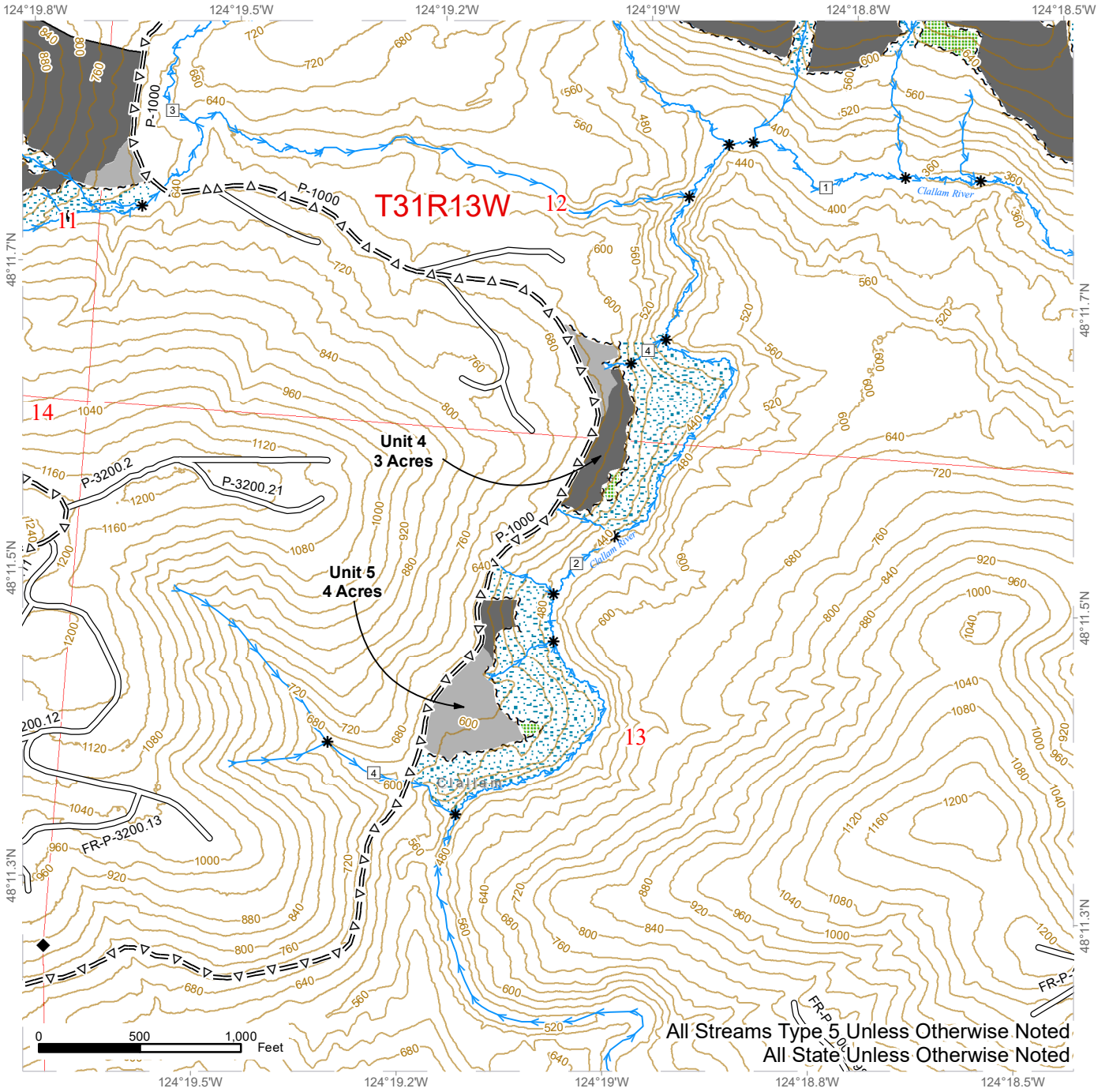
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— Timber Type Change	W Waste Area	▒ Riparian Mgt Zone
~ ~ ~ Leave Tree Tags	→ Streams	— Contours 40 ft
Existing Roads	□ Stream Type	▒ Ground
=Δ= Optional Pre-Haul Maintenance	* Stream Type Break	▒ Cable
--- Optional Construction		▒ Public Land Survey Townships
		▒ Public Land Survey Sections



LOGGING PLAN MAP

SALE NAME: RIDGE RUN
AGREEMENT#: 30-103766
TOWNSHIP(S): T31 R13W, T31 R12W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 500'-1500'



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

~ ~ ~ Sale Boundary Tags	→ Streams	Leave Tree Area
— Timber Type Change	□ Stream Type	Riparian Mgt Zone
~ ~ ~ Leave Tree Tags	* Stream Type Break	Contours 40 ft
Existing Roads	◆ Survey Monument	Ground
=Δ= Optional Pre-Haul Maintenance		Cable
		Public Land Survey Townships
		Public Land Survey Sections



632125

NO. CDMB2195

RECEIVED
MAR 21 1990

PERMIT

LANDS & MINERALS

The State of Washington, Department of Corrections, herein called "the Grantor", and the State of Washington, acting by and through the Department of Natural Resources, herein called "the Grantee", WITNESSETH:

I

The Grantor, for an in consideration of ONE HUNDRED DOLLARS and NO/100 (\$100.00), hereby grants and conveys to the State, its successors and assigns, a road use permit over and across W $\frac{1}{2}$, Section 28, Township 32 North, Range 12 West, W.M., in Clallam County Washington, located approximately as shown by the darkened area on the attached Exhibit "A".

Subject as to said lands to all matters of public record.

II

The parties hereto hereby agree that the rights hereinabove granted shall be subject to the following terms and conditions:

- A. The permit is conveyed for the purpose of use and maintenance of a road for the purpose of providing access to and from lands presently owned or hereafter acquired by the Grantee, or controlled by the Grantee, for land management and administration activities, including but not limited to valuable material removal operations.
- B. The Grantor reserves to itself, its successors and assigns, the right to use the roadway in any manner which does not unreasonably interfere with the use of said road by the Grantee, its assigns, successors, agents, contractors, employees, lessees, or licensees, collectively herein referred to as Permittees.

The cost of road maintenance and resurfacing shall be allocated on the basis of respective uses of said roads. When any party uses a road, that party shall perform or cause to be performed, or contribute or cause to be contributed, that share of maintenance and resurfacing occasioned by such use as hereinafter provided. During periods when a road is being used solely by one party, such party shall maintain that portion of said road so used to the standards existing at the time use is commenced. During periods when more than one party is using the same road, or any portion thereof, the parties hereto shall meet and establish necessary maintenance provisions. Such provisions shall include, but shall not be limited to:

- (1) The appointment of a maintainer, which may be one of the parties hereto or any third party, who will perform or cause to be performed at a reasonable and agreed upon rate the maintenance and resurfacing of the road or the portion thereof being used; and
- (2) A method of payment by which each party using said road or a portion thereof, shall pay its pro rata share of the cost incurred by said maintainer in maintaining or resurfacing said road or portion thereof.

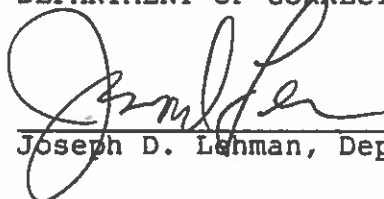
For purposes of this Agreement, maintenance is defined as the work normally necessary to preserve and keep the roadway, road structure and road facilities as nearly as possible in their present condition or as hereafter improved.

- C. The Grantor may grant to third parties, upon such terms as it choose, any or all of the rights reserved by it herein; provided, that use by such party shall be subject to the terms and conditions of this Agreement and shall not unreasonably interfere with the rights granted to the Grantee herein.
- D. The Grantee shall require each of its Permittees, before using any of said roads for commercial purposes, to:
 1. Obtain and during the term of such use, maintain a policy of liability insurance in a form generally acceptable in the trade and customary in the area of said rights of way, insuring said Permittee against liability arising out of its operations, including the use of vehicles.
 - a. For log haulers, and other miscellaneous users operating heavy trucks (over one [1] ton), Two Hundred Fifty Thousand Dollars (\$250,000.00) for injury to one person, Five Hundred Thousand Dollars (\$500,000.00) for any one occurrence, and Two Hundred Fifty Thousand Dollars (\$250,000.00) property damage for any one occurrence;
 - b. For fern cutters, bough cutters, shake cutters, or other miscellaneous users operating pickup trucks, light trucks (under one [1] ton) or passenger cars for the purpose of transporting miscellaneous forest products, One Hundred Thousand Dollars (\$100,000.00) for injury to one person, Three Hundred Thousand Dollars (\$300,000.00) for any one occurrence, and One Hundred Thousand Dollars (\$100,000.00) property damage for any one occurrence; or

- c. Such other limits as the parties hereto may agree upon in writing from time to time.
2. Deliver to the Grantor a certificate from the insurer of said Permittee certifying that coverage, not less than the above-named amounts, is in force and that, in the event of cancellation or modification of such coverage, the insurer will give the Grantor ten (10) days' written notice prior to any cancellation or modification.
- E. Each party using any portion of a road shall repair, or cause to be repaired, at its sole cost and expense, that damage to said road occasioned by it which is in excess of that which it would cause through normal and prudent usage of said road. Should inordinate damage to the road occur which is not caused by an authorized user of said road, the parties hereto shall meet to agree upon the costs of replacement, the party to undertake the replacement, and the shares of replacement cost to be borne by each user of said road.
- F. This permit shall be for an indefinite period, provided, that the permit may be terminated or suspended upon breach of any of the conditions herein.

IN WITNESS WHEREOF, the Grantor has hereunto set its hand and seal this 16th day of MARCH, 1990.

STATE OF WASHINGTON
DEPARTMENT OF CORRECTIONS


Joseph D. Lehman, Deputy Secretary 3-16-90

Easement No. 55-002316

TRO 4/4/2014

632125

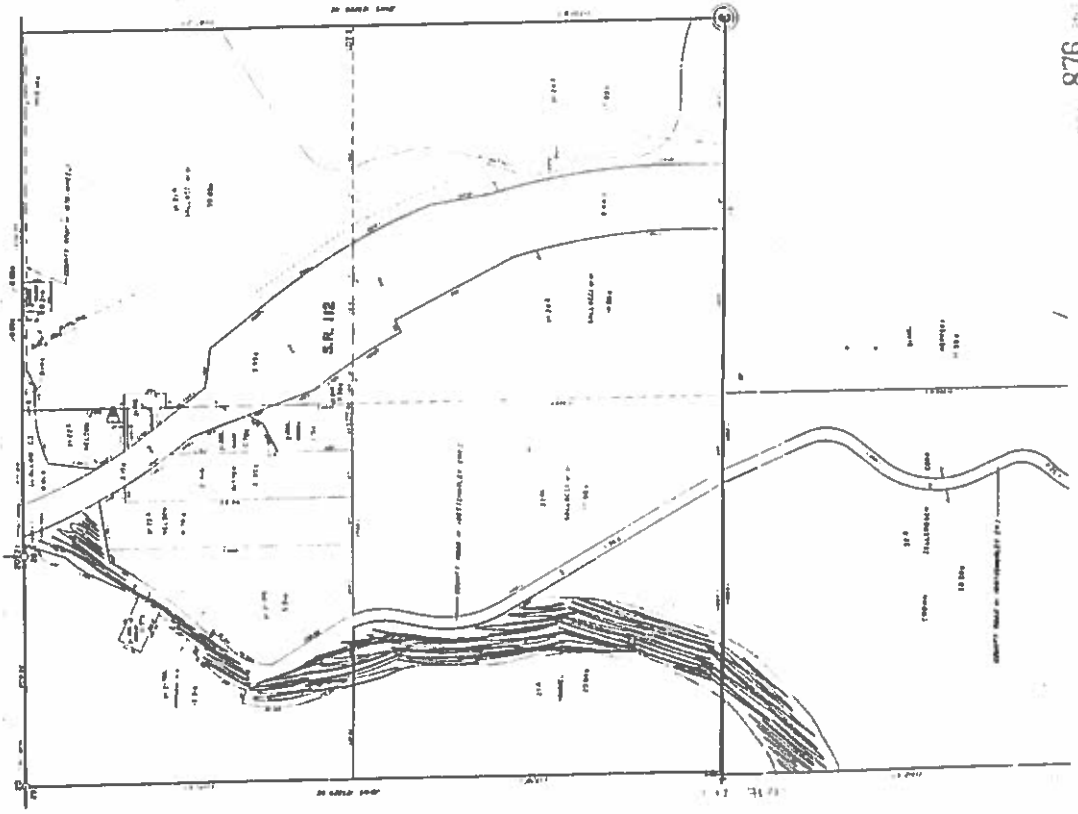
Dept. Natural Resources

90 APR 20 PM 1:26

876 PAGE 44
MARY HODDYK, AUDITOR
CLALLAM COUNTY, WASH.
BY *[Signature]*

EXHIBIT H

Section --- 28
Township --- 32N
Range --- 12W



876 47