Lewis County
Department of Public Works
Engineering Division

CONTRACT PROVISIONS AND PLANS

FOR CONSTRUCTION OF:

JACKSON HWY SOUTH CULVERT REPLACEMENT PROJECT

COUNTY ROAD PROJECT NO. 2167C
R.A.P. PROJECT NO. 2117-01
March, 2020

Lewis County Public Works
2025 NE Kresky Ave.
Chehalis, WA 98532-2626

TIM D FIFE
STATE OF WASHINGTON
#24184
REGISTERED
PROFESSIONAL ENGINEER

3-12-20

BOARD OF COUNTY COMMISSIONERS

Edna J. Fund, District No. 1
Robert C. Jackson, District No. 2
Gary Stamper, District No. 3

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INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the 2018 Standard Specifications for Road, Bridge, and Municipal Construction.

AMENDMENTS TO THE STANDARD SPECIFICATIONS

The following Amendments to the Standard Specifications are made a part of this contract and supersede any conflicting provisions of the Standard Specifications. For informational purposes, the date following each Amendment title indicates the implementation date of the Amendment or the latest date of revision.

Each Amendment contains all current revisions to the applicable section of the Standard Specifications and may include references which do not apply to this particular project.

Section 1-02, Bid Procedures and Conditions

1-02.13 Irregular Proposals

Item 1(h) is revised to read:

h. The Bidder fails to submit Underutilized Disadvantaged Business Enterprise Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;

Item 1(i) is revised to read the following three items:

i. The Bidder fails to submit an Underutilized Disadvantaged Business Enterprise Trucking Credit Form, if applicable, as required in Section 1-02.6, or if the Form that is submitted fails to meet the requirements of the Special Provisions;

j. The Bidder fails to submit an Underutilized Disadvantaged Business Enterprise Broker Agreement, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that the fee/commission is reasonable as determined by the Contracting Agency; or

k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation.

SECTION 1-05, CONTROL OF WORK

April 2, 2018

1-05.9 Equipment

The following new paragraph is inserted before the first paragraph:

Prior to mobilizing equipment on site, the Contractor shall thoroughly remove all loose dirt and vegetative debris from drive mechanisms, wheels, tires, tracks, buckets and undercarriage. The Engineer will reject equipment from the site until it returns clean.

This section is supplemented with the following:

Upon completion of the Work, the Contractor shall completely remove all loose dirt and vegetative debris from equipment before removing it from the job site.

SECTION 1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

April 2, 2018

1-07.5 Environmental Regulations

This section is supplemented with the following new subsections:

1-07.5(5) U.S. Army Corps of Engineers

When temporary fills are permitted, the Contractor shall remove fills in their entirety and the affected areas returned to pre-construction elevations.

If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the Special Provisions, the Contractor shall retain a copy of the permit or the verification letter (in the case of a Nationwide Permit) on the worksite for the life of the Contract. The Contractor shall provide copies of the permit or verification letter to all subcontractors involved with the authorized work prior to their commencement of any work in waters of the U.S.

1-07.5(6) U.S. Fish/Wildlife Services and National Marine Fisheries Service

The Contracting Agency will provide fish exclusion and handling services if the Work dictates. However, if the Contractor discovers any fish stranded by the project and a Contracting Agency biologist is not available, they shall immediately release the fish into a flowing stream or open water.

1-07.5(1) General

The first sentence is deleted and replaced with the following:

No Work shall occur within areas under the jurisdiction of resource agencies unless authorized in the Contract.

The third paragraph is deleted.

1-07.5(2) State Department of Fish and Wildlife

This section is revised to read:

In doing the Work, the Contractor shall:

1. Not degrade water in a way that would harm fish, wildlife, or their habitat.
2. Not place materials below or remove them from the ordinary high water line except as may be specified in the Contract.
3. Not allow equipment to enter waters of the State except as specified in the Contract.
4. Revegetate in accordance with the Plans, unless the Special Provisions permit otherwise.
5. Prevent any fish-threatening silt buildup on the bed or bottom of any body of water.

6. Ensure continuous stream flow downstream of the Work area.

7. Dispose of any project debris by removal, burning, or placement above high-water flows.

8. Immediately notify the Engineer and stop all work causing impacts, if at any time, as a result of project activities, fish are observed in distress or a fish kill occurs.

If the Work in (1) through (3) above differs little from what the Contract requires, the Contracting Agency will measure and pay for it at unit Contract prices. But if Contract items do not cover those areas, the Contracting Agency will pay pursuant to Section 1-09.4. Work in (4) through (8) above shall be incidental to Contract pay items.

1-07.7(1) General

The first sentence of the third paragraph is revised to read:

When the Contractor moves equipment or materials on or over Structures, culverts or pipes, the Contractor may operate equipment with only the load-limit restrictions in Section 1-07.7(2).

The first sentence of the last paragraph is revised to read:

Unit prices shall cover all costs for operating over Structures, culverts and pipes.

1-07.9(2) Posting Notices

The second sentence of the first paragraph (up until the colon) is revised to read:

The Contractor shall ensure the most current edition of the following are posted:

In items 1 through 10, the revision dates are deleted.

1-07.11(2) Contractual Requirements

In this section, “creed” is revised to read “religion”.

Item numbers 1 through 9 are revised to read 2 through 10, respectively.

After the preceding Amendment is applied, the following new item number 1 is inserted:

1. The Contractor shall maintain a Work site that is free of harassment, humiliation, fear, hostility and intimidation at all times. Behaviors that violate this requirement include but are not limited to:

   a. Persistent conduct that is offensive and unwelcome.

   b. Conduct that is considered to be hazing.

   c. Jokes about race, gender, or sexuality that are offensive.

d. Unwelcome, unwanted, rude or offensive conduct or advances of a sexual nature which interferes with a person's ability to perform their job or creates an intimidating, hostile, or offensive work environment.

e. Language or conduct that is offensive, threatening, intimidating or hostile based on race, gender, or sexual orientation.

f. Repeating rumors about individuals in the Work Site that are considered to be harassing or harmful to the individual's reputation.

1-07.11(5) Sanctions

This section is supplemented with the following:

Immediately upon the Engineer's request, the Contractor shall remove from the Work site any employee engaging in behaviors that promote harassment, humiliation, fear or intimidation including but not limited to those described in these specifications.

1-07.11(6) Incorporation of Provisions

The first sentence is revised to read:

The Contractor shall include the provisions of Section 1-07.11(2) Contractual Requirements (1) through (5) and the Section 1-07.11(5) Sanctions in every subcontract including procurement of materials and leases of equipment.

1-07.18 Public Liability and Property Damage Insurance

Item number 1 is supplemented with the following new sentence:

This policy shall be kept in force from the execution date of the Contract until the Physical Completion Date.

INTRODUCTION

The following Special Provisions are made a part of this contract and supersede any conflicting provisions of the 2018 Standard Specifications for Road, Bridge, and Municipal Construction, and the foregoing Amendments to the Standard Specifications.

The said Standard Specifications and Amendments thereto, the WSDOT Standard Plans, and WSDOT Construction Manual, together with the Special Provisions and the attached plans hereinafter contained, covering all work specified under this contract are incorporated and hereby made a part of this contract. The Special Provisions hereinafter contained shall supersede any conflicting provisions of the Standard Specifications and Amendments thereto, the WSDOT Standard Plans, and WSDOT Construction Manual.

Several types of Special Provisions are included in this contract; General, Region, Bridges and Structures, and Project Specific. Special Provisions types are differentiated as follows:

(date)	General Special Provision
(******)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
(APWA GSP)	American Public Works Association General Special Provision

General Special Provisions are similar to Standard Specifications in that they typically apply to many projects, usually in more than one Region. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a "fill-in".

Project Specific Special Provisions normally appear only in the contract for which they were developed.

The following paragraph pertaining to the Standard Specifications shall obtain and be made a part of this contract:

> Wherever the word "State" or "Contracting Agency" is used it shall mean Lewis County; that wherever the words "Secretary (Secretary of Transportation)" are used they shall mean Lewis County Engineer; that wherever the words "State Treasurer" are used they shall mean Lewis County Treasurer; that wherever the words "State Auditor" are used they shall mean Lewis County Auditor; that wherever the words "Motor Vehicle Fund" are used they shall mean Lewis County Road Fund.

SPECIAL PROVISIONS

DIVISION 1
GENERAL REQUIREMENTS

1-01, DESCRIPTION OF WORK

(March 13, 1995)

This contract provides for the improvement of ***Jackson Hwy South in Lewis County by replacing culvert and placing detour, reconstructing roadway, flattening slopes, crushed surfacing base and top course, hot mix asphalt overlays, shoulder finishing, traffic control, placing guardrail,*** and other related work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

1-01.3 Definitions

(January 4, 2016 APWA GSP)

Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with the following:

Dates

Bid Opening Date
The date on which the Contracting Agency publicly opens and reads the Bids.

Award Date
The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.

Contract Execution Date
The date the Contracting Agency officially binds the Agency to the Contract.

Notice to Proceed Date
The date stated in the Notice to Proceed on which the Contract time begins.

Substantial Completion Date
The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any remaining traffic disruptions will be rare and brief, and only minor incidental work, replacement of temporary substitute facilities, plant establishment periods, or correction or repair remains for the Physical Completion of the total Contract.

Physical Completion Date
The day all of the Work is physically completed on the project. All documentation required by the Contract and required by law does not necessarily need to be furnished by the Contractor by this date.

Completion Date
The day all the Work specified in the Contract is completed and all the obligations of the Contractor under the contract are fulfilled by the Contractor. All documentation required by the Contract and required by law must be furnished by the Contractor before establishment of this date.

Final Acceptance Date
The date on which the Contracting Agency accepts the Work as complete.

Supplement this Section with the following:

All references in the Standard Specifications, Amendments, or WSDOT General Special Provisions, to the terms “Department of Transportation”, “Washington State Transportation Commission”, “Commission”, “Secretary of Transportation”, “Secretary”, “Headquarters”, and “State Treasurer” shall be revised to read “Contracting Agency”.

All references to the terms “State” or “state” shall be revised to read “Contracting Agency” unless the reference is to an administrative agency of the State of Washington, a State statute or regulation, or the context reasonably indicates otherwise.

All references to “State Materials Laboratory” shall be revised to read “Contracting Agency designated location”.

All references to “final contract voucher certification” shall be interpreted to mean the Contracting Agency form(s) by which final payment is authorized, and final completion and acceptance granted.

Additive
A supplemental unit of work or group of bid items, identified separately in the Bid Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

Alternate
One of two or more units of work or groups of bid items, identified separately in the Bid Proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

Business Day
A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

Contract Bond
The definition in the Standard Specifications for “Contract Bond” applies to whatever bond form(s) are required by the Contract Documents, which may be a combination of a Payment Bond and a Performance Bond.

Contract Documents
See definition for “Contract”.

Contract Time
The period of time established by the terms and conditions of the Contract within which the Work must be physically completed.

Notice of Award
The written notice from the Contracting Agency to the successful Bidder signifying the Contracting Agency’s acceptance of the Bid Proposal.

Notice to Proceed
The written notice from the Contracting Agency or Engineer to the Contractor authorizing and directing the Contractor to proceed with the Work and establishing the date on which the Contract time begins.

Traffic
Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.

1-02, BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this Section and replace it with the following:

1-02.1 Qualifications of Bidder
(January 24, 2011 APWA GSP)

Before award of a public works contract, a bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public works project.

1-02.2 Plans and Specifications
(******)

The first paragraph of section 1-02.2 is revised to read:

Copies of the plans and specifications are on file in the office of:

Lewis County Public Works Department
2025 N.E. Kresky Avenue
Chehalis, Washington 98532
(360) 740-2612

The second paragraph of section 1-02.2 is revised to read:

Prospective bidders may obtain plans and specifications from Lewis County Public Works Department in Chehalis, Washington or download from Lewis County Website at www.lewiscountywa.gov.

1-02.6 Preparation of Proposal
(July 11, 2018 APWA GSP)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.
5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the last two paragraphs, and replace them with the following:

If no Subcontractor is listed, the Bidder acknowledges that it does not intend to use any Subcontractor to perform those items of work.

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form, provided by the Contracting Agency. Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

A bid by a corporation shall be executed in the corporate name, by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign).

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

1-02.12 Public Opening Of Proposal

(******)

Section 1-02.12 is supplemented with the following:

Date and Time of Bid Opening
The Board of County Commissioners of Lewis County or designee, will open sealed proposals and publicly read them aloud on or after 11:00 a.m. on **March 31, 2020**, at the Lewis County Courthouse, Chehalis, Washington, for the Jackson Hwy South Culvert Replacement Project, RAP Project No. 2117-01, CRP 2167C.

SEALED BIDS MUST BE DELIVERED BY OR BEFORE
11:00 A.M. on Tuesday, March 31, 2020

(Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners. **Bids submitted after 11:00 AM will not be considered for this project**.)

Delivery and Marking of Sealed Bid Proposals
Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532) by or before **11:00 a.m.** on the date specified for opening, and in an envelope clearly marked: ***"SEALED BID FOR THE JACKSON HWY SOUTH CULVERT REPLACEMENT PROJECT, RAP PROJECT NO. 2117-01, CRP 2167C, TO BE OPENED ON OR AFTER 11:00 A.M. ON MARCH 31, 2020.***

1-02.13 Irregular Proposals
(June 20, 2017 APWA GSP)

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
   a. The Bidder is not prequalified when so required;
   b. The authorized Proposal form furnished by the Contracting Agency is not used or is altered;
   c. The completed Proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
   d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
   e. A price per unit cannot be determined from the Bid Proposal;
   f. The Proposal form is not properly executed;
   g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
   h. The Bidder fails to submit or properly complete an Underutilized Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
   i. The Bidder fails to submit written confirmation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification that they are in agreement with the bidder's UDBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
   j The Bidder fails to submit UDBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
   k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or

l. More than one Proposal is submitted for the same project from a Bidder under the same or different names.

2. A Proposal may be considered irregular and may be rejected if:
   a. The Proposal does not include a unit price for every Bid item;
   b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
   c. Receipt of Addenda is not acknowledged;
   d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
   e. If Proposal form entries are not made in ink.

1-02.14 Disqualification of Bidders
(May 17, 2018 APWA GSP, Option B)

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet Supplemental Criteria 1-7 listed in this Section.

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1), and Supplemental Criteria 1-2. Evidence that the Bidder meets Supplemental Criteria 3-7 shall be provided by the Bidder as stated later in this Section.

1. **Delinquent State Taxes**

   A Criterion: The Bidder shall not owe delinquent taxes to the Washington State Department of Revenue without a payment plan approved by the Department of Revenue.

   B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder does not owe delinquent taxes to the Washington State Department of Revenue, or if delinquent taxes are owed to the Washington State Department of Revenue, the Bidder must submit a written payment plan approved by the Department of Revenue, to the Contracting Agency by the deadline listed below.

2. **Federal Debarment**

   A Criterion: The Bidder shall not currently be debarred or suspended by the Federal government.

   B. Documentation: The Bidder shall not be listed as having an “active exclusion” on the U.S. government’s “System for Award Management” database (www.sam.gov).

3. **Subcontractor Responsibility**

   A Criterion: The Bidder’s standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure which it utilizes to validate the responsibility of each of its

subcontractors. The Bidder's subcontract form shall also include a requirement that each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also "responsible" subcontractors as defined by RCW 39.06.020.

B. Documentation: The Bidder, if and when required as detailed below, shall submit a copy of its standard subcontract form for review by the Contracting Agency, and a written description of its procedure for validating the responsibility of subcontractors with which it contracts.

4. **Claims Against Retainage and Bonds**

A Criterion: The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects in the three years prior to the bid submittal date, that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of the public works projects completed in the three years prior to the bid submittal date that have had claims against retainage and bonds and include for each project the following information:

- Name of project
- The owner and contact information for the owner;
- A list of claims filed against the retainage and/or payment bond for any of the projects listed;
- A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

5. **Public Bidding Crime**

A Criterion: The Bidder and/or its owners shall not have been convicted of a crime involving bidding on a public works contract in the five years prior to the bid submittal date.

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder and/or its owners have not been convicted of a crime involving bidding on a public works contract.

6. **Termination for Cause / Termination for Default**

A Criterion: The Bidder shall not have had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any public works contract terminated for cause or terminated for default by a

government agency in the five years prior to the bid submittal date; or if Bidder was terminated, describe the circumstances. .

7. **Lawsuits**

A Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, or shall submit a list of all lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date, along with a written explanation of the circumstances surrounding each such lawsuit. The Contracting Agency shall evaluate these explanations to determine whether the lawsuits demonstrate a pattern of failing to meet of terms of construction related contracts

As evidence that the Bidder meets the Supplemental Criteria stated above, the apparent low Bidder must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets the supplemental criteria together with supporting documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with the Supplemental Criteria. The Contracting Agency reserves the right to request further documentation as needed from the low Bidder and documentation from other Bidders as well to assess Bidder responsibility and compliance with all bidder responsibility criteria. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder's compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Contracting Agency may consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

The basis for evaluation of Bidder compliance with these mandatory and supplemental criteria shall include any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from others for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Contracting Agency which is believed to be relevant to the matter.

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Contracting Agency's determination by presenting its appeal and any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency's final determination.

Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with concerns about the relevancy or restrictiveness of the Supplemental Bidder Responsibility Criteria may make or submit requests to the Contracting Agency to modify the criteria. Such requests shall be in writing, describe the nature of the concerns, and propose specific modifications to the criteria. Bidders shall submit such requests to the Contracting Agency no later than five (5) business days prior to the bid submittal deadline and address the request to the Project Engineer or such other person designated by the Contracting Agency in the Bid Documents.

1-02.15 Pre Award Information

(August 14, 2013 APWA GSP)

Revise this section to read:

Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,
4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

1-03, AWARD AND EXECUTION OF CONTRACT

1-03.2 Award of Contract

Section 1-03.2 is supplemented with the following:

The Contracting Agency reserves the right to delay the start date until all right of way certifications and construction permits have been completed.

1-03.3 Execution of Contract

(October 1, 2005 APWA GSP)

Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.

Within 15 calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency nor shall any work begin within the project limits or within Contracting Agency-furnished sites. The Contractor shall bear all risks for any work begun outside such areas and for any materials ordered before the contract is executed by the Contracting Agency.

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within the calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of 5 additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond

(July 23, 2015 APWA GSP)

Delete the first paragraph and replace it with the following:

The successful bidder shall provide executed payment and performance bond(s) for the full contract amount. The bond may be a combined payment and performance bond; or be separate payment and performance bonds. In the case of separate payment and performance bonds, each shall be for the full contract amount. The bond(s) shall:

1. Be on Contracting Agency-furnished form(s);
2. Be signed by an approved surety (or sureties) that:
   a. Is registered with the Washington State Insurance Commissioner, and
   b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner,
3. Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:
   a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or
   b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;
4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and
5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

1-05, CONTROL OF WORK

(March 13, 1995)

1-05.7 Removal Of Defective And unauthorized Work

(October 1, 2005 APWA GSP)

Supplement this section with the following:

If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary.

If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage to the public.

Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from monies due, or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor's unauthorized work.

No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.

The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damages with respect to the Contractor's failure to perform the work as required.

1-05.13 Superintendents, Labor and Equipment of Contractor
(August 14, 2013 APWA GSP)

Delete the sixth and seventh paragraphs of this section.

1-05.14 Cooperation With Other Contractors
Section 1-05.14 is supplemented with the following:
(March 13, 1995)

Other Contracts Or Other Work
It is anticipated that the following work adjacent to or within the limits of this project will be performed by others during the course of this project and will require coordination of the work:

$$ Utilities and/or Utility Contractors. The contractor's attention is directed to Section 1-07.17 these Special Provisions. Lewis County PUD will be moving poles in coordination with the Contractor. $$

1-05.15 Method of Serving Notices
(March 25, 2009 APWA GSP)
Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

1-06, CONTROL OF MATERIAL

Buy America

Section 1-06 is supplemented with the following:

(August 6, 2012)
In accordance with Buy America requirements contained in 23 CFR 635.410, the major quantities of steel and iron construction material that is permanently incorporated into the project shall consist of American-made materials only. Buy America does not apply to temporary steel items, e.g., temporary sheet piling, temporary bridges, steel scaffolding and falsework.

Minor amounts of foreign steel and iron may be utilized in this project provided the cost of the foreign material used does not exceed one-tenth of one percent of the total contract cost or $2,500.00, whichever is greater.

American-made material is defined as material having all manufacturing processes occurring domestically. To further define the coverage, a domestic product is a manufactured steel material that was produced in one of the 50 States, the District of Columbia, Puerto Rico, or in the territories and possessions of the United States.

If domestically produced steel billets or iron ingots are exported outside of the area of coverage, as defined above, for any manufacturing process then the resulting product does not conform to the Buy America requirements. Additionally, products manufactured domestically from foreign source steel billets or iron ingots do not conform to the Buy America requirements because the initial melting and mixing of alloys to create the material occurred in a foreign country.

Manufacturing begins with the initial melting and mixing, and continues through the coating stage. Any process which modifies the chemical content, the physical size or shape, or the final finish is considered a manufacturing process. The processes include rolling, extruding, machining, bending, grinding, drilling, welding, and coating. The action of applying a coating to steel or iron is deemed a manufacturing process. Coating includes epoxy coating, galvanizing, aluminizing, painting, and any other coating that protects or enhances the value of steel or iron. Any process from the original reduction from ore to the finished product constitutes a manufacturing process for iron.

Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced iron ore.

The following are considered to be steel manufacturing processes:

1. Production of steel by any of the following processes:

    a. Open hearth furnace.

b. Basic oxygen.

c. Electric furnace.

d. Direct reduction.

2. Rolling, heat treating, and any other similar processing.

3. Fabrication of the products.

a. Spinning wire into cable or strand.

b. Corrugating and rolling into culverts.

c. Shop fabrication.

A certification of materials origin will be required for any items comprised of, or containing, steel or iron construction materials prior to such items being incorporated into the permanent work. The certification shall be on DOT Form 350-109EF provided by the Engineer, or such other form the Contractor chooses, provided it contains the same information as DOT Form 350-109EF.

1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws to be Observed

(October 1, 2005 APWA GSP)

Supplement this section with the following:

In cases of conflict between different safety regulations, the more stringent regulation shall apply.

The Washington State Department of Labor and Industries shall be the sole and paramount administrative agency responsible for the administration of the provisions of the Washington Industrial Safety and Health Act of 1973 (WISHA).

The Contractor shall maintain at the project site office, or other well known place at the project site, all articles necessary for providing first aid to the injured. The Contractor shall establish, publish, and make known to all employees, procedures for ensuring immediate removal to a hospital, or doctor's care, persons, including employees, who may have been injured on the project site. Employees should not be permitted to work on the project site before the Contractor has established and made known procedures for removal of injured persons to a hospital or a doctor's care.

The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the Contractor's plant, appliances, and methods, and for any damage or injury resulting from their failure, or improper maintenance, use, or operation. The Contractor shall be solely and completely responsible for the conditions of the project site, including safety for all persons and property in the performance of the work. This requirement shall apply continuously, and not be limited to normal working hours. The required or implied duty of the Engineer to conduct construction review of the Contractor's performance does not, and shall not, be intended to include review and adequacy of the Contractor's safety measures in, on, or near the project site.

1-07.2 State Taxes

Delete this section, including its sub-sections, in its entirety and replace it with the following:

1-07.2 State Sales Tax
(June 27, 2011 APWA GSP)

The Washington State Department of Revenue has issued special rules on the State sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability.

The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(2) describes this exception.

The Contracting Agency will pay the retained percentage (or release the Contract Bond if a FHWA-funded Project) only if the Contractor has obtained from the Washington State Department of Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor any amount the Contractor may owe the Washington State Department of Revenue, whether the amount owed relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

1-07.2(1) State Sales Tax — Rule 171

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.

1-07.2(2) State Sales Tax — Rule 170

WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to each payment to the Contractor. For this reason, the Contractor shall not include the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following exception.

Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project. Such sales taxes shall be included in the unit bid item prices or in any other contract amount.

1-07.2(3) Services

The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly for professional or other services (as defined in Washington State Department of Revenue Rules 138 and 244).

1-07.5 Environmental Regulations

Section 1-07.5 is supplemented with the following:

(September 20, 2010)
Environmental Commitments

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the various documents referenced in the Special Provisions **Permits and Licenses**. Throughout the work, the Contractor shall comply with the following requirements:

(April 1, 2019)
The Contractor shall notify the Engineer a minimum of ***10*** calendar days prior to commencing any work in sensitive areas, mitigation areas, and wetland buffers. Installation of construction fencing is excluded from this notice requirement.

(August 3, 2009)
Payment

All costs to comply with this special provision for the environmental commitments and requirements are incidental to the contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the contract.

1-07.5(2) State Department of Fish and Wildlife

Section 1-07.5(2) is supplemented with the following:

(April 2, 2018)
The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the Washington State Department of Fish and Wildlife. Throughout the work, the Contractor shall comply with the following requirements:

(April 2, 2018)
The Contractor may begin Work below the Ordinary High Water Line on *** June 1 *** and must complete all the Work by *** September 30 ***.

(April 2, 2018)
All costs to comply with this special provision are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the Contract.

1-07.5(5) U.S. Army Corps of Engineers

Section 1-07.5(5) is supplemented with the following:

(April 2, 2018)
The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the U.S. Army Corps of Engineers. Throughout the work, the Contractor shall comply with the following requirements:

(February 25, 2013)
The Contractor shall retain a copy of the most recent U.S. Army Corps of Engineers Nationwide Permit Verification Letter, conditions, and permit drawings on the worksite for the life of the Contract (See Special Provision titled Permits and Licenses). The Contractor shall provide copies of the items above listed to all Sub-Contractors involved with the authorized work prior to their commencement of any work.

(February 25, 2013)
Temporary structures and dewatering of areas under the jurisdiction of the U.S. Army Corps of Engineers must maintain normal downstream flows and prevent upstream and downstream flooding to the maximum extent practicable.

(February 25, 2013)
Any temporary fills placed must be removed in their entirety and the affected areas returned to their pre-construction elevation.

(April 2, 2018)
All costs to comply with this special provision are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the Contract.

1-07.6 Permits and Licenses

Section 1-07.6 is supplemented with the following:

(January 2, 2018)
The Contracting Agency has or will obtained the below-listed permits(s) for this project. A copy of the permit(s) is attached as an appendix for informational purposes. Copies of these permits, including a copy of the Transfer of Coverage form, when applicable, are required to be onsite at all times.

Contact with the permitting agencies, concerning the below-listed permit(s), shall be made through the Engineer with the exception of when the Construction Stormwater General Permit coverage is transferred to the Contractor, direct communication with the Department of Ecology is allowed. The Contractor shall be responsible for obtaining Ecology's approval for any Work requiring additional approvals (e.g. Request for Chemical Treatment Form). The Contractor shall obtain additional permits as necessary. All costs to obtain and comply with additional permits shall be included in the applicable Bid items for the Work involved.

***

NAME OF DOCUMENT	PERMITTING AGENCY	PERMIT REFERENCE NO.
National Environmental Policy Act (NEPA) – Documented Categorical Exclusion	Corps of Engineers Seattle District	Authorized under NWS-2018-741
Department of the Army Section 404 Nationwide 14	Corps of Engineers Seattle District	NWS-2018-741

Section 106 Concurrence	Corps of Engineers Seattle District	Authorized under NWS-2018-741
Section 401 Water Quality Certification	Department of Ecology	Certified under NWS-2018-741
Hydraulic Permit Approval	Washington Department of Fish and Wildlife	2019-5-98+01
State Environmental Policy Act	Lewis County Community Development (LCCD)	SEP19-0017
Fill and Grade Permit	LCCD	

***

1-07.7 Load Limits

Section 1-07.7 is supplemented with the following:

(******)

If the source of materials provided by the Contractor necessitates hauling over roads other than Lewis County roads, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

Any vehicle providing material paid for by the ton, on the project, will provide licensed tonnage for that vehicle.

1-07.9 Wages

General

Section 1-07.9(1) is supplemented with the following:

(******)

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

(April 2, 2007)

Application of Wage Rates for the Occupation of Landscape Construction

State prevailing wage rates for public works contracts are included in this contract and show a separate listing for the occupation:

Landscape Construction, which includes several different occupation descriptions such as: Irrigation and Landscape Plumbers, Irrigation and Landscape Power Equipment Operators, and Landscaping or Planting Laborers.

In addition, federal wage rates that are included in this contract may also include occupation descriptions in Federal Occupational groups for work also specifically identified with landscaping such as:

Laborers with the occupation description, Landscaping or Planting, or

Power Equipment Operators with the occupation description, Mulch Seeding Operator.

If Federal wage rates include one or more rates specified as applicable to landscaping work, then Federal wage rates for all occupation descriptions, specific or general, must be considered and compared with corresponding State wage rates. The higher wage rate, either State or Federal, becomes the minimum wage rate for the work performed in that occupation.

Contractors are responsible for determining the appropriate crafts necessary to perform the contract work. If a classification considered necessary for performance of the work is missing from the Federal Wage Determination applicable to the contract, the Contractor shall initiate a request for approval of a proposed wage and benefit rate. The Contractor shall prepare and submit Standard Form 1444, Request for Authorization of Additional Classification and Wage Rate available at http://www.wdol.gov/docs/sf1444.pdf , and submit the completed form to the Project Engineer's office. The presence of a classification wage on the Washington State Prevailing Wage Rates For Public Works Contracts does not exempt the use of form 1444 for the purpose of determining a federal classification wage rate.

1-07.11 Requirements For Nondiscrimination

Section 1-07.11 is supplemented with the following:

(April 2, 2018)

Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)

1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.

2. The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:

Women - Statewide

Timetable	Goal
Until further notice	6.9%

Minorities - by Standard Metropolitan Statistical Area (SMSA)

Spokane, WA:

SMSA Counties:

Spokane, WA 2.8

WA Spokane.

Non-SMSA Counties 3.0

WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.

Richland, WA

SMSA Counties:

Richland Kennewick, WA 5.4

WA Benton; WA Franklin.

Non-SMSA Counties 3.6

WA Walla Walla.

Yakima, WA:
SMSA Counties:
Yakima, WA 9.7
WA Yakima.
Non-SMSA Counties 7.2
WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.

Seattle, WA:
SMSA Counties:
Seattle Everett, WA 7.2
WA King; WA Snohomish.
Tacoma, WA 6.2
WA Pierce.
Non-SMSA Counties 6.1
WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.

Portland, OR:
SMSA Counties:
Portland, OR-WA 4.5
WA Clark.
Non-SMSA Counties 3.8
WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.

These goals are applicable to each nonexempt Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, or federally assisted project, contract, or subcontract until further notice. Compliance with these goals and time tables is enforced by the Office of Federal Contract compliance Programs.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, in each construction craft and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goal shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of $10,000 or more that are Federally funded, at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the Subcontractor; employer identification number of the Subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed. The notification shall be sent to:

U.S. Department of Labor
Office of Federal Contract Compliance Programs Pacific Region
Attn: Regional Director
San Francisco Federal Building
90 – 7th Street, Suite 18-300
San Francisco, CA 94103(415) 625-7800 Phone
(415) 625-7799 Fax

Additional information may be found at the U.S. Department of Labor website: https://www.dol.gov/ofccp/regs/compliance/preaward/cnstnote.htm

4. As used in this Notice, and in the contract resulting from this solicitation, the Covered Area is as designated herein.

Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)

1. As used in these specifications:

   a. Covered Area means the geographical area described in the solicitation from which this contract resulted;

   b. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;

   c. Employer Identification Number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941;

   d. Minority includes:

      (1) Black, a person having origins in any of the Black Racial Groups of Africa.

      (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto Rican, Cuban, Central American, South American, or other Spanish origin.

      (3) Asian or Pacific Islander, a person having origins in any of the original peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and Samoa.

      (4) American Indian or Alaskan Native, a person having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of $10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an

association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith effort to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its action. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

    a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

    b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunity and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the U.S. Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.

f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

i. Direct its recruitment efforts, both oral and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the

above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of the obligations under 7a through 7p of this Special Provision provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female work-force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrate the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include, for each employee, their name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, the Contractors will not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

16. Additional assistance for Federal Construction Contractors on contracts administered by Washington State Department of Transportation or by Local Agencies may be found at:

    Washington State Dept. of Transportation
    Office of Equal Opportunity
    PO Box 47314
    310 Maple Park Ave. SE
    Olympia WA
    98504-7314
    Ph: 360-705-7090
    Fax: 360-705-6801
    http://www.wsdot.wa.gov/equalopportunity/default.htm

1-07.15, Temporary Water Pollution/Erosion Control

1-07.15(1) Spill Prevention, Control and Countermeasures Plan

Section 1-07.15(1) is supplemented with the following:

(August 3, 2009)

The Contractor shall address the following items in the SPCC Plan in addition to the requirements of Section 1-07.15(1):

Mixing, Transfers, & Storage

1. All oil, fuel or chemical storage tanks or containers shall be diked and located on impervious surfaces so as to prevent spill from escaping.

2. All liquid products shall be stored and mixed on impervious surfaces in a secure water tight environment and provide containment to handle the maximum volume of liquid products on site at any given time.

3. Proper security shall be maintained to prevent vandalism.

4. Drip pans or other protective devices shall be required for all transfer operations.

Spills

Paint and solvent spills shall be treated as oil spills and shall be prevented from reaching storm drains or other discharges. No cleaning solvents or chemicals used for tool or equipment cleaning may be discharged to the ground or water.

Maintenance of Equipment

Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc, shall be checked regularly for drips or leaks and shall be maintained and stored properly to prevent spills into State waters.

Disposal

Spilled waste, chemicals or petroleum products shall be transported off site for disposal at a facility approved by the Department of Ecology. The materials shall not be discharged to any sanitary sewer without approval of the local sewer authority.

Reporting and Cleanup

The Contractor's designated person for managing and implementing the SPCC Plan shall report hazardous material spills as follows:

Spills into State water (including ponds, ditches, seasonally dry streams, and wetlands) – Immediately call all of the following:

National Response Center	1-800-424-8802
WA State Div. of Emergency Management (24 hr)	1-800-258-5990
Ecology Southwest Regional Office	(360) 407-6300

Spill to Soil (Including encounters of pre-existing contamination):

Ecology Southwest Regional Office	(360) 407-6300

Report immediately if threatening to health or environment (i.e., explosive, flammable, toxic vapors, shallow groundwater, nearby creek), otherwise within 90 days

1-07.17 Utilities And Similar Facilities

(April 2, 2007)

Section 1-07.17 is supplemented with the following:

Locations and dimensions shown in the Plan for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor's convenience:

Lewis County P.U.D. No. 1
321 NW Pacific Avenue
Chehalis, WA 98532
Telephone (360) 748-9261

Comcast
440 Yauger Way SW
Olympia, WA. 98570
Telephone (360) 357-1230

Sprint
Steven Schauer
2210 S. 35th ST.
Tacoma, WA 98409
Telephone (360) 402-4159

Toledo Telephone Company, Inc.
116 Ramsey Way
Toledo, WA. 98591
(360)864-4552

The Contractor shall call the Underground locate service (800-424-5555) two to ten days prior to construction at each project site. The Contractor shall notify the Utility Owner of any utilities that are within two feet of the planned construction. The above list of Utility Owners may not be complete. As per RCW 19.122 it shall be the Contractors responsibility to contact the owners of utilities known or suspected of having services close to the project site.

1-07.18 Public Liability and Property Damage Insurance

Delete this section in its entirety, and replace it with the following:

1-07.18 Insurance
(January 4, 2016 APWA GSP)

1-07.18(1) General Requirements

A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.

B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.

C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting

Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.

D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.

E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.

G. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency

H. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.

I. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

1-07.18(2) Additional Insured

All insurance policies, with the exception of Workers Compensation, and of Professional Liability and Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s) using the forms or endorsements required herein:

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

For Commercial General Liability insurance coverage, the required additional insured endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

1-07.18(3) Subcontractors

The Contractor shall cause each Subcontractor of every tier to provide insurance coverage that complies with all applicable requirements of the Contractor-provided insurance as set forth herein, except the Contractor shall have sole responsibility for determining the limits of coverage required to be obtained by Subcontractors.

The Contractor shall ensure that all Subcontractors of every tier add all entities listed in 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency evidence of insurance and copies of the additional insured endorsements of each Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.

1-07.18(4) Verification of Coverage

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage with these insurance requirements or failure of Contracting Agency to identify a deficiency from the insurance documentation provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Verification of coverage shall include:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement.
3. Any other amendatory endorsements to show the coverage required herein.
4. A notation of coverage enhancements on the Certificate of Insurance shall <u>not</u> satisfy these requirements – actual endorsements must be submitted.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is required on this Project, a full and certified copy of that policy is required when the Contractor delivers the signed Contract for the work.

1-07.18(5) Coverages and Limits

The insurance shall provide the minimum coverages and limits set forth below. Contractor's maintenance of insurance, its scope of coverage, and limits as required herein shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the Contracting Agency's recourse to any remedy available at law or in equity.

All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible or self-insured retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability subject to any policy's deductibles or self-insured retention, said deductibles or self-insured retention shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop gap liability, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract. There shall be no exclusion for liability arising from explosion, collapse or underground property damage.

The Commercial General Liability insurance shall be endorsed to provide a per project general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor's completed operations for at least three years following Substantial Completion of the Work.

Such policy must provide the following minimum limits:

$1,000,000	Each Occurrence
$2,000,000	General Aggregate
$2,000,000	Products & Completed Operations Aggregate
$1,000,000	Personal & Advertising Injury each offence
$1,000,000	Stop Gap / Employers' Liability each accident

1-07.18(5)B Automobile Liability

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

$1,000,000	Combined single limit each accident

1-07.18(5)C Workers' Compensation

The Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

1-07.23, PUBLIC CONVENIENCE AND SAFETY

1-07.23(1) Construction Under Traffic

Section 1-07.23(1) is supplemented with the following:

(January 2, 2012)

Work Zone Clear Zone

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other contract requirements.

During nonworking hours equipment or materials shall not be within the WZCZ unless they are protected by permanent guardrail or temporary concrete barrier. The use of temporary concrete barrier shall be permitted only if the Engineer approves the installation and location.

During actual hours of work, unless protected as described above, only materials absolutely necessary to construction shall be within the WZCZ and only construction vehicles absolutely necessary to construction shall be allowed within the WZCZ or allowed to stop or park on the shoulder of the roadway.

The Contractor's nonessential vehicles and employees private vehicles shall not be permitted to park within the WZCZ at any time unless protected as described above.

Deviation from the above requirements shall not occur unless the Contractor has requested the deviation in writing and the Engineer has provided written approval.

Minimum WZCZ distances are measured from the edge of traveled way and will be determined as follows:

Regulatory Posted Speed	Distance From Traveled Way (Feet)
35 mph or less	10 *
40 mph	15
45 to 55 mph	20
60 mph or greater	30

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

1-08, PROSECUTION AND PROGRESS

1-08.0 Preliminary Matters
(May 25, 2006 APWA GSP)

Add the following new section:

1-08.0(1) Preconstruction Conference
(October 10, 2008 APWA GSP)

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be invited. The purpose of the preconstruction conference will be:

1. To review the initial progress schedule;
2. To establish a working understanding among the various parties associated or affected by the work;
3. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
4. To establish normal working hours for the work;
5. To review safety standards and traffic control; and
6. To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:

1. A breakdown of all lump sum items;
2. A preliminary schedule of working drawing submittals; and
3. A list of material sources for approval if applicable.

Add the following new section:

1-08.0(2) Hours of Work
(December 8, 2014 APWA GSP)

Except in the case of emergency or unless otherwise approved by the Engineer, the normal working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires different than the

normal working hours stated above, the request must be submitted in writing prior to the preconstruction conference, subject to the provisions below. The working hours for the Contract shall be established at or prior to the preconstruction conference.

All working hours and days are also subject to local permit and ordinance conditions (such as noise ordinances).

If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a written request to the Engineer for consideration. This request shall state what hours are being requested, and why. Requests shall be submitted for review no later than 3 working days prior to the day(s) the Contractor is requesting to change the hours.

If the Contracting Agency approves such a deviation, such approval may be subject to certain other conditions, which will be detailed in writing. For example:

1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency representatives who worked during such times. (The Engineer may require designated representatives to be present during the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence.)
2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.
3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the non working day for the week will be charged as a working day.
5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll

1-08.1 Subcontracting
(February 16, 2018 APWA GSP)

The eighth and ninth paragraphs are revised to read:

On all projects, the Contractor shall certify to the actual amount received from the Contracting Agency and amounts paid to all firms that were used as Subcontractors, lower tier subcontractors, manufacturers, regular dealers, or service providers on the Contract. This includes all Disadvantaged, Minority, Small, Veteran or Women's Business Enterprise firms. This Certification shall be submitted to the Engineer on a monthly basis each month between Execution of the Contract and Physical Completion of the Contract using the application available at: https://wsdot.diversitycompliance.com. A monthly report shall be submitted for every month between Execution of the Contract and Physical Completion regardless of whether payments were made or work occurred.

The Contractor shall comply with the requirements of RCW 39.04.250, 39.76.011, 39.76.020, and 39.76.040, in particular regarding prompt payment to Subcontractors. Whenever the Contractor withholds payment to a Subcontractor for any reason including disputed amounts, the Contractor shall provide notice within 10 calendar days to the Subcontractor with a copy to the Contracting

Agency identifying the reason for the withholding and a clear description of what the Subcontractor must do to have the withholding released. Retainage withheld by the Contractor prior to completion of the Subcontractors work is exempt from reporting as a payment withheld and is not included in the withheld amount. The Contracting Agency's copy of the notice to Subcontractor for deferred payments shall be submitted to the Engineer concurrently with notification to the Subcontractor.

Section 1-08.1 is supplemented with the following:

(October 12, 1998)
Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision **Federal Agency Inspection**.

A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

1. Request to Sublet Work (Form 421-012), and
2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (Form 420-004).

The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all Subcontractors and lower tier Subcontractors shall be available and open to similar inspection or audit for the same time period.

1-08.1(1) Subcontract Completion and Return of Retainage Withheld
Section 1-08.1(1) is revised to read:

(June 27, 2011)
The following procedures shall apply to all subcontracts entered into as a part of this Contract:

Requirements

1. The Prime Contractor or Subcontractor shall make payment to the Subcontractor not later than ten (10) days after receipt of payment from the Contracting Agency for work satisfactorily completed by the Subcontractor, to the extent of each Subcontractor's interest therein.

2. Prompt and full payment of retainage from the Prime Contractor to the Subcontractor shall be made within 30 days after Subcontractor's Work is satisfactorily completed.

3. For purposes of this Section, a Subcontractor's work is satisfactorily completed when all task and requirements of the Subcontract have been accomplished and including any required documentation and material testing.

4. Failure by a Prime Contractor or Subcontractor to comply with these requirements may result in one or more of the following:

a. Withholding of payments until the Prime Contractor or Subcontractor complies

b. Failure to comply shall be reflected in the Prime Contractor's Performance Evaluation

c. Cancellation, Termination, or Suspension of the Contract, in whole or in part

d. Other sanctions as provided by the subcontractor or by law under applicable prompt pay statutes.

Conditions
This clause does not create a contractual relationship between the Contracting Agency and any Subcontractor as stated in Section 1-08.1. Also, it is not intended to bestow upon any Subcontractor, the status of a third-party beneficiary to the Contract between the Contracting Agency and the Contractor.

Payment
The Contractor will be solely responsible for any additional costs involved in paying retainage to the Subcontractors. Those costs shall be incidental to the respective Bid Items.

1-08.3(2)A Type A Progress Schedule
(March 13, 2012 APWA GSP)

Revise this section to read:

The Contractor shall submit $$ 3 $$ copies of a Type A Progress Schedule no later than one week before the preconstruction conference, or some other mutually agreed upon submittal time. The schedule may be a critical path method (CPM) schedule, bar chart, or other standard schedule format. Regardless of which format used, the schedule shall identify the critical path. The Engineer will evaluate the Type A Progress Schedule and approve or return the schedule for corrections within 15 calendar days of receiving the submittal.

Contractor's Weekly Activities
(******)

The Contractor shall submit a weekly schedule to the Engineer. The schedule shall indicate the Contractor's proposed activities for the forthcoming week along with the hours of work. This will permit the Engineer to more effectively provide the contract engineering and inspection for the Contractor's operations.

The written weekly activity schedule shall be submitted to the Engineer or a designated assistant before the end of the last shift on the next to the last working day of the week preceding the indicated activities, or other mutually agreeable time.

If the Contractor proceeds with work not indicated on the weekly activity schedule, or in a sequence differing from that which has been shown on the schedule, the Engineer may require the Contractor to delay unscheduled activities until they are included on a subsequent weekly activity schedule.

Separately, and in addition to the weekly schedule, the Contractor shall submit weekly a summary of project activities to the Engineer. The summary of activities shall include a report of the nature and progress of each of the major activities that were advanced on the project within the previous week.

It shall be sufficiently detailed that a composite history of the project develops. The locations and approximate quantity guardrail and traffic control work shall be reported. Unusual activity, and conditions or events that may affect the course of the project shall also be reported.

1-08.4 Prosecution of Work

Delete this section and replace it with the following:

1-08.4 Notice to Proceed and Prosecution of Work

(July 23, 2015 APWA GSP)

Notice to Proceed will be given after the contract has been executed and the contract bond and evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall not commence with the work until the Notice to Proceed has been given by the Engineer. The Contractor shall commence construction activities on the project site within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the work to the physical completion date within the time specified in the contract. Voluntary shutdown or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to complete the work within the time(s) specified in the contract.

When shown in the Plans, the first order of work shall be the installation of high visibility fencing to delineate all areas for protection or restoration, as described in the Contract. Installation of high visibility fencing adjacent to the roadway shall occur after the placement of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No other work shall be performed on the site until the Contracting Agency has accepted the installation of high visibility fencing, as described in the Contract.

1-08.5 Time for Completion

(November 30, 2018 APWA GSP, Option B)

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the $$14^{th}$$ calendar day after the Notice to Proceed date. If the Contractor starts work on the project at an earlier date, then contract time shall begin on the first working day when onsite work begins.

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day, then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

The Engineer will give the Contractor written notice of the completion date of the contract after all the Contractor's obligations under the contract have been performed by the Contractor. The following events must occur before the Completion Date can be established:

1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
   a. Certified Payrolls (per Section 1-07.9(5)).
   b. Material Acceptance Certification Documents
   c. Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
   d. Final Contract Voucher Certification
   e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
   f. A copy of the Notice of Termination sent to the Washington State Department of Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the Notice of Termination by Ecology; and no rejection of the Notice of Termination by Ecology. This requirement will not apply if the Construction Stormwater General Permit is transferred back to the Contracting Agency in accordance with Section 8-01.3(16).
   g. Property owner releases per Section 1-07.24

(******)
This project shall be physically completed within * 53 *** working days.**

1-08.9 Liquidated Damages
(August 14, 2013 APWA GSP)

Revise the fourth paragraph to read:

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine that the work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, the formula for liquidated damages shown above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.

1-09, MEASUREMENT AND PAYMENT

1-09.7 Mobilization
Section 1-09.7 is supplemented with the following:

(******)

The Contracting Agency will provide a limited temporary staging site during construction of the project. The area to be used shall be staked in the field prior to use. The Contractor shall restore this site to the condition it was found or as directed by the Engineer. Any additional staging area shall be provided by the Contractor and approved by the Engineer prior to use.

1-09.9 Payments
(March 13, 2012 APWA GSP)

Delete the first four paragraphs and replace them with the following:

The basis of payment will be the actual quantities of Work performed according to the Contract and as specified for payment.

The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction Conference, to enable the Project Engineer to determine the Work performed on a monthly basis. A breakdown is not required for lump sum items that include a basis for incremental payments as part of the respective Specification. Absent a lump sum breakdown, the Project Engineer will make a determination based on information available. The Project Engineer's determination of the cost of work shall be final.

Progress payments for completed work and material on hand will be based upon progress estimates prepared by the Engineer. A progress estimate cutoff date will be established at the preconstruction conference.

The initial progress estimate will be made not later than 30 days after the Contractor commences the work, and successive progress estimates will be made every month thereafter until the Completion Date. Progress estimates made during progress of the work are tentative, and made only for the purpose of determining progress payments. The progress estimates are subject to change at any time prior to the calculation of the final payment.

The value of the progress estimate will be the sum of the following:

1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum breakdown for that item, or absent such a breakdown, based on the Engineer's determination.
3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.
4. Change Orders — entitlement for approved extra cost or completed extra work as determined by the Engineer.

Progress payments will be made in accordance with the progress estimate less:

1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
2. The amount of progress payments previously made; and
3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract Documents.

Progress payments for work performed shall not be evidence of acceptable performance or an admission by the Contracting Agency that any work has been satisfactorily completed. The determination of payments under the contract will be final in accordance with Section 1-05.1.

1-09.9(1) Retainage

Section 1-09.9(1) is supplemented with the following:

Retainage of 5 percent shall be as required by RCW 60.28.011.

1-09.11 Disputes and Claims

1-09.11(3) Time Limitation and Jurisdiction

(November 30, 2018 APWA GSP)

Revise this section to read*:*

For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to any records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

1-09.13 Claims Resolution

1-09.13(3) Claims $250,000 or Less

(October 1, 2005 APWA GSP)

Delete this Section and replace it with the following:

The Contractor and the Contracting Agency mutually agree that those claims that total $250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by nonbinding ADR processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

1-09.13(3)A Administration of Arbitration

(November 30, 2018 APWA GSP)

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.050 shall control venue and

jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

1-09.13(4) Claims in Excess of $250,000

Section 1-09.13(4) is hereby deleted and replaced with the following:

CLAIMS RESOLUTION
(******)

Any dispute arising from the contract shall be processed in accordance with Section 1-04.5 and Sections 1-09.11 through 1-09.13(1) of the Standard Specifications. The provisions of these sections must be complied with in full as a condition precedent to the Contractor's right to seek claims resolution through arbitration or litigation. The Contractor may file with the Engineer a request for binding arbitration; the Engineer's decision regarding that request shall be final and unappealable. Nothing in this paragraph affects or tolls the limitations period as set forth in Section 1-09.11(3) of the Standard Specifications. However, if the Contractor files a lawsuit raising any claim(s) arising from the contract, the parties shall, if the Engineer so directs, submit such claim(s) to binding arbitration, subject to the rights of any party thereto to file with the Lewis County Superior Court motions to dismiss or for summary judgment at any time. In any binding arbitration proceeding, the provisions of subparagraphs (a) and (b) shall apply.

a) Unless the parties otherwise agree, all disputes subject to arbitration shall be heard in a single arbitration hearing, and then only after completion of the contract. The parties shall be bound by Ch. 7.04 RCW generally, and by the arbitration rules hereafter stated, and shall, for purposes of administration of the arbitration, comply where applicable with the 1994 Lewis County Superior Court Mandatory Arbitration Rules (LMAR) sections 1.1(b), 1.3, 2.3, 3.1, 3.2(a) and (b), 5.1, 5.2 (except as referenced to MAR 5.2), 5.3, 6.1, 6.2 (including the referenced MAR 6.2), and 8.6. There shall be one arbitrator, to be chosen by mutual agreement of the parties from the list provided by the Lewis County Superior Court Administrator. If the parties cannot agree on a person to serve as arbitrator, the matter shall be submitted for appointment of an arbitrator under LMAR 2.3. The arbitrator shall determine the scope and extent of discovery, except that the Contractor shall provide and update the information required by Section 1-09.11(2) of the Standard Specifications. Additionally, each party shall file a statement of proof with the other party and the arbitrator at least 20 calendar days before the scheduled arbitration hearing. The statement of proof shall include:

    1. The name, business address and contact telephone number of each witness who will testify at the hearing.

    2. For each witness to be offered as an expert, a statement of the subject matter and a statement of the facts, resource materials (not protected by privilege) and learned treatises upon which the expert is expected to testify and render an opinion(s), synopsis of the basis for such opinion(s), and a resume of the expert detailing his/her qualifications as an expert and pursuant to rendering such opinion(s). A list of documents and other exhibits the party intends to offer in evidence at the arbitration hearing. Either party may request a copy of any document listed, and a copy or description of any other exhibit listed. The party receiving the request shall provide the copies or description within five (5) calendar

days. The parties or arbitrator may subpoena parties in accordance with the Superior Court Mandatory Arbitration Rules (MAR) of Washington, Rule 4.3, and witness fees and costs shall be provided for under Rule 6.4, thereof. The arbitrator may permit a party to call a witness or offer a document or other exhibit not included in the statement of proof only upon a showing of good cause.

b) The arbitration hearing shall be conducted at a location within Lewis County, Washington. The extent of application of the Washington Rules of Evidence shall be determined in the exercise of sound discretion of the arbitrator, except that such Rules should be liberally construed in order to promote justice. The parties should stipulate to the admission of evidence when there is no genuine issue as to its relevance or authenticity. The decision of the arbitrator and the specific grounds for the decision shall be in writing. The arbitrator shall use the contract as a basis for its decisions. The County and the Contractor agree to be bound by the decision of the arbitrator, subject to such remedies as are provided in Ch. 7.04 RCW. Judgment upon the award rendered by the arbitrator shall be entered as judgment before the presiding judge of the Superior Court for Lewis County. Each party shall bear its own costs in connection with the arbitration. Each party shall pay one-half of the arbitrator's fees and expenses.

1-10, TEMPORARY TRAFFIC CONTROL

1-10.2 Traffic Control Management

1-10.2(1) General

Section 1-10.2(1) is supplemented with the following:

(January 3, 2017)

Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the State of Washington. The Traffic Control Supervisor shall be certified by one of the following:

The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709
1-800-521-0778

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637
Phone: (540) 368-1701

1-10.2(2) Traffic Control Plans

(******)

Section 1-10.2(2) is supplemented with the following:

The Contracting Agency has attached a Temporary Traffic Control Plan in Appendix E for temporary traffic control use on this project. All signs required for this project (as shown on the Traffic Control Plan) shall be the Contractors responsibility to furnish, erect, and maintain. The Contractor shall adopt the Traffic Control Plan in writing to the Engineer or furnish a new plan. The Contractor shall conduct his operations on the roadway in a manner that one-way traffic is maintained at all times, unless otherwise directed by the Engineer.

The Contracting Agency has included in the Contract Plans a Detour Plan. If determined by the Engineer that additional signing is needed it shall be the Contractors responsibility to furnish, erect, and maintain these additional signs. **The Contractor shall notifiy the Contracting Agency 20 working days prior to detour closure for public notice.**

All Class A signs shall be paid for as "Construction Signs Class A" per square foot. All other traffic control items shall be included in the "Project Temporary Traffic Control" per lump sum, including Type 3 Barricade (including attached signs), labor, and maintaining detour.

Class A signs shall be installed using an elevated stand capable of reaching a minimum height of 3 feet and be equipped with adjustable legs so the sign can be made level. The signs shall be weighted to prevent tipping or being blown over.

If determined by the Engineer that additional signing (not shown on the Temporary Traffic Control Plan) is needed, it shall be the Contractors responsibility to furnish, erect, and maintain these additional signs at no cost to the Contracting Agency.

1-10.2(3) Conformance to Established Standards
(******)
Section 1-10.2(3) is supplemented with the following:

The latest revision of the WSDOT Manual M54-44 "Work Zone Traffic Control Guidelines" (WZTCG) is hereby made a part of this contract by reference as if contained fully herein.

1-10.4 Measurement

1-10.4(1) Lump Sum Bid for Project (No Unit Items)
Section 1-10.4(1) is supplemented with the following:

(August 2, 2004)
The proposal contains the item "Project Temporary Traffic Control," lump sum. The provisions of Section 1-10.4(1) shall apply.

Reinstating Unit Items With Lump Sum Traffic Control
Section 1-10.4(3) is supplemented with the following:

(August 2, 2004)
The bid proposal contains the item "Project Temporary Traffic Control," lump sum and the additional temporary traffic control items listed below. The provisions of Section 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.

*** "Traffic Control Supervisor", per lump sum.
"Construction Signs Class A", per square foot. ***

EXISTING SIGNS

(******)
During the life of the contract, the Contractor shall be responsible for all existing signs damaged or removed by construction operations.

County Road name signs and Private Road name signs shall be temporarily relocated to portable sign stands for convenience of construction subject to the approval of the Engineer. The signs shall be located at or as near as practical to their original locations and shall have a minimum vertical clearance above the pavement in accordance with the Manual on Uniform Traffic Control Devices. Upon completion of construction in the area immediately surrounding the permanent sign location, the Contractor shall reinstall the sign and supports in their permanent locations.

Signs damaged or removed shall be replaced by the Contractor at no cost to the County.

DIVISION 2
EARTHWORK

2-01, CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description
Section 2-01.1 is supplemented with the following:

(******)
Clearing and grubbing on this project shall be performed within the following limits:

*** The Right of Way limits and Construction Easements staked in the field by the Engineer prior to bid opening and/or as shown on the Contract Plans. The Contractor will be required to limit all construction operations to within the area staked to be cleared. No equipment will be allowed past the clearing limits unless directed by the Engineer. ***

2-02, REMOVAL OF STRUCTURES AND OBSTRUCTIONS

2-02.1 Description
Section 2-02.1 is supplemented with the following:

(March 13, 1995)
This work shall consist of removing miscellaneous traffic items.

2-02.3 Construction Requirements
Section 2-02.3 is supplemented with the following:

(******)

2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters

Make a vertical, full depth saw cut between any existing pavement that is to remain and the portion that is to be removed. Any damage to the vertical cut during construction operation shall be repaired to the satisfaction of the Engineer prior to paving.

Removing Miscellaneous Items

(March 13, 1995)
The following miscellaneous items shall be removed and disposed of:

*** Existing culvert ***
*** Existing Signs as per Section 1-10 of these Special Provisions (Existing Signs) ***
*** Flexible Guide Post ***
*** Concrete wall (as needed)***
*** Concrete wing walls ***
*** Concrete debris ***

(******)

Requirements for Closing Road to Traffic Prior to Beginning Removal

The Contractor shall not close the existing road to traffic, and shall not begin culvert removal operations, until the following conditions are met:

1. The traffic control for the detour road shall be operational and opened to traffic prior to closure.

2. The Contractor shall furnish a report on the status of material delivery to the Engineer. The report shall specify the materials already available at the site, the materials yet to arrive at the site, and the scheduled delivery dates of the materials yet to arrive at the site.

3. The Contractor has received the Engineer's approval to proceed.

2-02.4 Measurement

No specific unit of measurement will apply to the lump sum item of "Removal of Structure and Obstruction". Traffic signs to be adjusted or moved shall be considered incidental to this bid item. All signs shall remain the property of Lewis County.

2-02.5 Payment

Section 2-02.5 is supplemented with the following:

Payment will be made in accordance with Section 1-04.1, for the following Bid item when it is included in the Proposal:

"Removal of Structure and Obstruction", lump sum.

If pavements, sidewalks, curbs, or gutters lie within an excavation area, their removal will be paid for as part of the quantity removed in excavation.

2-03, ROADWAY EXCAVATION AND EMBANKMENT

(******)

2-03.3 Construction Requirements

(******)

Pavement Grinding

Pavement shall be ground as shown in the Contract Plans. Existing pavement shall be ground small enough to pass a 3-in. sieve, exclusive of gravel or stone retained on these sieves and incorporated back into the embankment of project.

2-03.3(7) Disposal Of Surplus Material

Section 2-03.3(7) is supplemented with the following:

No waste site has been provided to the Contractor for the disposal of unsuitable and excess excavation material. The Contractor shall make his own arrangement to acquire a site for the disposal of unsuitable and excess excavation material.

The Contractor shall make his own arrangements to acquire a site and obtain all environmental permits required for the disposal of the unsuitable excavation material. The Contracting Agency must approve the waste site prior to it being utilized. Approval cannot be given until the Contracting Agency receives copies of all environmental approvals.

All costs for acquiring a disposal site and for the loading, hauling, and disposal of unsuitable and excess excavation material shall be considered incidental to the project and be included in the unit contract prices for the various items of work therein.

Stream Access Road

The Contractor may construct the temporary Stream Access Road as shown in the contract plans. Material removed for this temporary access road shall be stockpiled and replaced after construction is completed to form a streambank and terrace. The Contractor supplied material to construct the temporary access road (In the area shown to be removed after construction) shall remain the property of the Contractor after removal. The Contractor may submit a different plan to the Engineer for approval. All work involved for temporary Stream Access Road shall be considered incidental to the Streambed work and materials involved.

2-03.4 Measurement

Section 2-03.4 is supplemented with the following:

(March 13, 1995)

Only one determination of the original ground elevation will be made on this project. Measurement for roadway excavation and embankment will be based on the original ground elevations recorded previous to the award of this contract. Control stakes will be set during construction to provide the Contractor with all essential information for the construction of excavation and embankments.

If discrepancies are discovered in the ground elevations which will materially affect the quantities of earthwork, the original computations of earthwork quantities will be adjusted accordingly.

Earthwork quantities will be computed, either manually or by means of electronic data processing equipment, by use of the average end area method or by the finite element analysis method utilizing digital terrain modeling techniques.

Copies of the ground cross-section notes will be available for the bidder's inspection, before the opening of bids, at the County Engineer's office.

Upon award of the contract, copies of the original ground cross-sections will be furnished to the successful bidder on request to the Project Engineer.

2-09, STRUCTURE EXCAVATION

2-09.1 Description

(******)

Section 2-09.1 is supplemented with the following:

Temporary Stream Diversion for Structure & Channel Excavation

Temporary Stream Diversion for Structure & Channel Excavation work shall consist of installation and maintenance of stream diversion/bypass for the creek during all in-water construction. Temporary Stream Diversion for Structure Excavation shall be conducted in a manner that does not violate State Water Quality Standards. All work in and adjacent to the stream shall be accomplished in strict accordance with the requirements of the WDFW HPA. This work also consists of adjustments to the location of the dewatering systems as deemed necessary by the Contractor to complete the project and comply with all environmental regulations, permits, specifications and special provisions for this project.

The Contracting Agency has designed a Temporary Stream Diversion Plan on Sheet 20 of 22 of the Contract Plans for the Contractor's approval.

Upon completion of in-water construction, the Contractor shall promptly remove all stream diversion materials and equipment as directed by the Engineer. Disposal of surplus material and debris remaining from dewatering operations shall be incidental to and included in this item of work. The Stream Diversion Plan is an integral component of stormwater management for this site. If work is required above the ordinary high water mark after the in-water work window has expired, additional BMPs not shown in the Contract Plans shall be proposed by the Contractor for approval by the Engineer. BMPs installed and maintained after the in-water work window has expired shall control stormwater generated from the site during final construction activities. Payment for BMPs shall be per Contract Unit Bid prices or via Section 1-09.

Submittals

One week prior to beginning stream diversion/bypass and dewatering work, the Contractor shall submit the following in writing to the Engineer for approval:

1. Plans for the installation and commissioning of the dewatering system throughout the duration of the structure excavation.

    a) Drawings for Information: Show arrangement, locations, and details of temporary diversion structure, pump locations and discharge line, discharge point, temporary erosion control, and removal of stranded fish.
    b) Include a written report outlining control procedures to be adopted if stream bypass problems arise. Photograph or videotape, in sufficient detail, existing conditions of adjoining construction and site improvements that might be misconstrued as damage caused by stream bypass operations.
2. Method of stream diversion/bypass throughout the duration of the structure excavation.

Work shall not commence until the submittals are approved in writing by the Engineer.

2-09.3 Construction Requirements

(******)

Section 2-09.3 in supplemented with the following:

Preparation

Install the stream diversion system to ensure minimum interference with the existing streambed, and other facilities surrounding the dewatering site.

Disturbance of the bed and banks should be limited to that necessary to place the structure, embankment protection, and any required channel modification associated with the installation. All disturbed areas should be protected from erosion within seven (7) calendar days of completion using vegetation or other means.

Isolation of the construction site from stream flow shall be accomplished using techniques such as:

By pumping the stream flow around the site.
The installation of a sheetpile or sandbag wall.
The use of a water-filled cofferdam.

Exception may be granted if siltation or turbidity is reduced to acceptable levels by means approved by the Engineer, the Washington Department of Fish and Wildlife (WDFW) and Washington Department of Ecology.

Installation

Install the stream diversion system utilizing pipes, pumps (with WDFW approved fish screens), culverts, flexible hose or similar methods complete with pump equipment, standby power and pumps, valves, appurtenances, water disposal, and surface-water controls.

It is anticipated that a pump bypass system will be utilized to by-pass stream around the excavation area.

Provide standby equipment on-site available for immediate operation, to maintain stream bypass on continuous basis if any part of system becomes inadequate or fails. At a minimum the Contractor shall provide and have on hand additional pumps as a backup to the stream bypass system. If stream bypass requirements are not satisfied due to inadequacy or failure of stream bypass system, restore damaged structures and foundation soils at no additional expense to the County.

Fish rescue shall be conducted within the zone of isolation. All fish shall be transferred downstream of the project site using Washington State Department of Transportation (WSDOT) fish exclusion protocols. Fish shall be removed from the project area using a seine net, dip net and five gallon buckets. When fish rescue is completed the site may be dewatered. Pumps shall draw down water at a slow rate so that fish remaining may be rescued and no fish stranding shall occur.

Any wastewater from project activities and dewatering shall be routed to an area outside the ordinary high water line to allow settling of fine sediments and other contaminants prior to being discharged back into the subject stream. Do not permit open-sump pumping that leads to loss of fines, soil piping, subgrade softening, and slope instability. Dewatering operations shall comply with regulatory water disposal requirements of authorities having jurisdiction. The stream diversion/bypass and shall be sufficiently maintained to avoid significant leaks that may result in flows through the work zone. All in-water work shall be in strict conformance with permits obtained for this project.

Remove and dispose of the stream bypass system from project site once the new stream channel has been constructed and approved by the Engineer. Upon decommissioning, flows shall be reintroduced gradually so as to minimize the mobilization of sediments.

2-09.4 Measurement

(******)

Section 2-09.4 in supplemented with the following:

No specific unit of measurement will apply to “Temporary Stream Diversion”.

2-09.5 Payment

(******)

Section 2-09.5 in supplemented with the following:

Payment will be made in accordance with Section 1-04.1 for the following bid item included in the proposal:

“Temporary Stream Diversion”, lump sum.

The lump sum contract price for “Temporary Stream Diversion” shall be full payment to perform the work as specified, including dewatering, stream diversion/bypass, pump montitoring and operation, fish rescue, and any sandbagging, pumping (with WDFW approved fish screens), fish exclusion, sediment removal, filtration or other materials necessary to complete the work.

DIVISION 3
PRODUCTION FROM QUARRY AND PIT SITES AND STOCKPILING

3-01, PRODUCTION FROM QUARRY AND PIT SITES

3-01.4 Contractor Furnished Material Sources

3-01.4(1) Acquisition and Development

(******)

Section 3-01.4(1) is supplemented with the following:

No source has been provided for any materials necessary for the construction of this project.

DIVISION 4
BASES

4-04, BALLAST AND CRUSHED SURFACING

4-04.3 Construction Requirements

4-04.3(5) Shaping and Compacting

(******)

Section 4-04.3(5) is supplemented with the following:

Shoulder Finishing

Shoulder finishing material shall not be placed until the abutting pavement has been completed, unless designated by the Engineer. Shoulder finishing material (Crushed Surfacing Top Course) shall be placed by a spreader box in one lift. Processing of the shoulder finishing material on the roadway shall not be permitted.

The existing shoulder material, as well as any additional crushed surfacing material required shall be placed, watered, and compacted against the vertical edge of the pavement, including road

approaches. Hand work may be required in areas of road approaches and guardrail. The Contractor shall grade the shoulder material to a uniform slope, remove all debris (sod, large rocks, etc.) and dress all berms resulting from this operation to the satisfaction of the Engineer. The material shall be graded into place and compacted by wheel rolling a minimum of two passes with a motor grader or comparable piece of equipment in areas where the shoulder is narrow. All other areas shall be compacted to the satisfaction of the Engineer. In all areas where the shoulder is wide enough, as determined by the Engineer, a steel drum vibratory compactor shall be used. For compaction, water shall be applied as determined by the Engineer. Damage to the HMA mat due to the Contractor's operation shall be repaired at no cost to the Contracting Agency.

Following the placement of crushed surfacing material each day, the new mainline and shoulder pavement shall be cleaned of all dirt and debris to the satisfaction of the Engineer. Prior to commencing work on the Shoulder Finishing operation the Contractor shall submit the selected method of compaction and equipment to be used to the Engineer for approval.

4-04.4 Measurement

(******)

Section 4-04.4 is supplemented with the following:

"Shoulder Finishing" shall be measured per mile.

4-04.5 Payment

(******)

Section 4-04.5 is supplemented with the following:

The unit contract price per mile for "Shoulder Finishing" shall be full pay for furnishing crushed surfacing, hauling, grading existing material, placing additional material, compacting and all other work as specified.

DIVISION 5
SURACE TREATMENTS AND PAVEMENTS

(******)

5-04, HOT MIX ASPHALT

(******)

Delete Section 5-04 and amendments, Hot Mix Asphalt and replace it with the following:

(******)

5-04.1 Description

This Work shall consist of providing and placing one or more layers of plant-mixed hot mix asphalt (HMA) on a prepared foundation or base in accordance with these Specifications and the lines, grades, thicknesses, and typical cross-sections shown in the Plans.

HMA shall be composed of asphalt binder and mineral materials as may be required, mixed in the proportions specified to provide a homogeneous, stable, and workable mixture.

The term "Approach" shall include Road approaches, driveways, and extensions.

Superintendents, Labor, and Equipment of Contractor

The Contractor shall have a sufficient number of qualified personnel on the project to insure the following minimum crew size:

One paving superintendent
One paver operator
Two screed operators
Three roller operators
Two rakers

These workers shall be present and not assigned to dual activities that would stop them from fulfilling their assigned task while the paver is in operation. There will be one assigned supervisor who will be in charge of paving operations and who will be responsible for work performed.

Fiber Reinforced HMA:

This work shall consist of providing and placing Fiber Reinforced HMA in accordance with these Specifications and the lines, grades, thicknesses and typical cross-sections shown in the plans.

Definitions:

- Reinforcing Fibers: High tensile strength synthetic aramid fiber blend specially formulated to reinforce hot mix asphalt.
- Fiber Reinforced Asphalt Concrete (FRAC): A mixture of hot mix asphalt and reinforcing fibers that has greater resistance to rutting, thermal cracking, fatigue cracking, and reflective cracking as compared to conventional non-fiber asphalt mixes.
- Aramid Dispersion State Ratio (ADSR): A measure of the dispersion efficiency of the Reinforcing Fibers within asphalt mixes. ADSR is calculated by comparing the mass of aramid in the individual state to the total mass of extracted aramid fibers, expressed as a percentage.

(******)

5-04.2 Materials

Materials shall meet the requirements of the following sections:

Asphalt Binder	9-02.1(4)
Cationic Emulsified Asphalt	9-02.1(6)
Anti-Stripping Additive	9-02.4
HMA Additive	9-02.5
Aggregates	9-03.8
Recycled Asphalt Pavement	9-03.8(3)B
Mineral Filler	9-03.8(5)
Recycled Material	9-03.21
Portland Cement	9-01
Sand	9-03.1(2)
(As noted in 5-04.3(5)C for crack sealing)	
Joint Sealant	9-04.2
Foam Backer Rod	9-04.2(3)A

The Contract documents may establish that the various mineral materials required for the manufacture of HMA will be furnished in whole or in part by the Contracting Agency. If the documents do not establish the furnishing of any of these mineral materials by the Contracting Agency, the Contractor shall be required to furnish such materials in the amounts required for the designated mix. Mineral materials include coarse and fine aggregates, and mineral filler.

No recycled asphalt pavement (RAP) may be used in the production of HMA.

The grade of asphalt binder shall be as required by the Contract. Blending of asphalt binder from different sources is not permitted.

Production of aggregates shall comply with the requirements of Section 3-01.
Preparation of stockpile site, the stockpiling of aggregates, and the removal of aggregates from stockpiles shall comply with the requirements of Section 3-02.

Reinforcing Fibers:

1. Provide a reinforcing fiber blend of virgin polyolefins and virgin aramids that meets the requirements in Table 1 and Table 2 below:

Table 1

Reinforcing Fiber Material Properties			
Property	**Standard**	**Polyolefin**	**Aramid**
Form	Manufacturer Certification	Serrated	Monofilament
Nominal Specific Gravity	ASTM D276	0.91	1.44
Tensile Strength (psi)	ASTM D7269	NA[1]	400,000
Length (in)	Manufacturer Certification	0.75	0.75

1. Polyolefin fibers will melt or become plastically deformed during production

Table 2

Reinforcing Fiber Performance Properties			
Performance Measure	**Test Method**	**Standard**	**Requirement**
Dispersion Efficiency	Aramid Dispersion State Ratio (ADSR)	Modified ASTM D2172	≥ 85%
Field Performance Cracking Resistance	Pavement Condition Index	ASTM D6433	≥ 10 PCI Points increase, Minimum 4 years
Resistance to Permanent Deformation (Rutting)	Flow Number (FN)	AASTHO TP79	≥ 75% increase

2. If an aramid-based fiber blend is proposed that does not meet all of the material properties in Table 1 above, performance test results meeting Table 2 above and

complying with Part 2 of Section 5-04.2(2) below a substitute fiber blend shall be submitted at least one week prior to bid date for approval by engineer.

3. Non-aramid fiber blends will not be considered as acceptable alternatives to this specification

5-04.2(1) How to Get a HMA Mix Design on the QPL

If the contractor wishes to submit a mix design for inclusion in the Qualified Products List (QPL), please follow the WSDOT process outlined in Standard Specification 5-04.2(1).

5-04.2(1)A Vacant

5-04.2(2) Mix Design – Obtaining Project Approval

No paving shall begin prior to the approval of the mix design by the Engineer.

Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the contract documents.

(******)

Commercial evaluation will be used for Commercial HMA and for other classes of HMA if approved by the Engineer, in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Project Engineer. The Proposal quantity of HMA that is accepted by commercial evaluation will be excluded from the quantities used in the determination of nonstatistical evaluation.

Nonstatistical Mix Design. Fifteen days prior to the first day of paving the contractor shall provide one of the following mix design verification certifications for Contracting Agency review;

- The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below.
- The proposed HMA mix design on WSDOT Form 350-042 with the seal and certification (stamp & sig-nature) of a valid licensed Washington State Professional Engineer.
- The Mix Design Report for the proposed HMA mix design developed by a qualified City or County laboratory that is within one year of the approval date.**

The mix design shall be performed by a lab accredited by a national authority such as Laboratory Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall supply evidence of participation in the AASHTO: resource proficiency sample program.

Mix designs for HMA accepted by Nonstatistical evaluation shall;

- Have the aggregate structure and asphalt binder content determined in accordance with WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-

03.8(2), except that Hamburg testing for ruts and stripping are at the discretion of the Engineer, and 9-03.8(6).

- Have anti-strip requirements, if any, for the proposed mix design determined in accordance with AASHTO T 283 or T 324, or based on historic anti-strip and aggregate source compatibility from previous WSDOT lab testing.

At the discretion of the Engineer, agencies may accept verified mix designs older than 12 months from the original verification date with a certification from the Contractor that the materials and sources are the same as those shown on the original mix design.

Commercial Evaluation Approval of a mix design for "Commercial Evaluation" will be based on a review of the Contractor's submittal of WSDOT Form 350-042 (For commercial mixes, AASHTO T 324 evaluation is not required) or a Mix Design from the current WSDOT QPL or from one of the processes allowed by this section. Testing of the HMA by the Contracting Agency for mix design approval is not required.

For the Bid Item Commercial HMA, the Contractor shall select a class of HMA and design level of Equivalent Single Axle Loads (ESAL's) appropriate for the required use.

Reinforcing Fibers:

1. Submit the following as part of the bid package:

    a. Representative fiber product sample.
    b. Fiber product data sheet and certification from the Manufacturer that the fiber product supplied meets the requirements of this specification.
    c. Manufacturer's instructions and general recommendations.
    d. Performance test results of ADSR testing from a minimum of three separate laboratory trials to validate dispersion efficiency.
    e. Performance results of PCI testing from a minimum of three separate field trials to validate cracking resistance.
    f. Performance test results of FN testing from a minimum of three separate laboratory trials to validate rutting resistance.
    g. A minimum of five unique project examples and references where the reinforcing fiber product was used within 250 miles of the project location

    ****NOTE: Testing is NOT required on samples from the job mix. Submit previously completed lab testing only.**

2. Performance testing requirements

    All historical test results submitted to validate the fiber's performance in asphalt mixes shall be from previously completed laboratory and field trials using plant-mixed FRAC only. **Testing is NOT required on samples from the job mix.**

    Performance testing must be from laboratory trials at a fiber dosage rate equal to the rate proposed for the project. Tests must be performed by an AASHTO accredited laboratory or nationally recognized university testing lab and must be reviewed and approved by the project engineer.

    a. Aramid Dispersion State Ratio (ADSR) Tests from a minimum of three (3) separate laboratory trials.

1. Perform ADSR test based on modified ASTM D2172 procedures as provided in the document entitled “Extraction of Aramid Fibers from Fiber Reinforced Asphalt Concrete – Special Test Method”. A copy of the modified extraction methodology can be obtained by making an inquiry to the Pavement and Materials Laboratory at Arizona State University at NCE@asu.edu.
2. To validate ADSR results, average extracted aramid fiber quantity must equal 0.007 percent by total sample weight with no individual result less than 0.005 percent of the total sample weight.
3. All tested fiber mixes must achieve a minimum ADSR of 85%.

b. Pavement Condition Index (PCI) side by side comparison from a minimum of three (3) field trails with a minimum in-service pavement age of four years.
   1. PCI surveys shall be performed according to ASTM D6433.
   2. Tests results shall include a control and a fiber reinforced pavement section. FRAC mix shall be identical to control mix except for the inclusion of fibers added at the same dosage as proposed on the project.
   3. In field performance sections shall be subject to the same environmental and traffic conditions. A minimum surface area of 500 yd^2 per FRAC and control section is required.
   4. PCI results from fiber sections shall show a minimum 10 PCI points greater than the control section after a minimum of 4 years.

c. Flow Number (FN) Tests from a minimum of three (3) separate laboratory trials.
   1. Perform FN tests using the protocol from AASHTO TP79.
   2. Tests results shall include a control and a fiber reinforced mix. FRAC mix shall be identical to control mix except for the inclusion of fibers added at the same dosage as proposed on the project.
   3. Results from fiber specimens shall show an average FN increase of at least 75% over control specimens.

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

Do not place HMA for wearing course on any Traveled Way beginning October 1st through March 31st of the following year without written concurrence from the Engineer.

Do not place HMA on any wet surface, or when the average surface temperatures are less than those specified below, or when weather conditions otherwise prevent the proper handling or finishing of the HMA.

Minimum Surface Temperature for Paving

Compacted Thickness (Feet)	Wearing Course	Other Courses
Less than 0.10	55◦F	45◦F
0.10 to .20	45◦F	35◦F

More than 0.20	35◦F	35◦F

5-04.3(2) Paving Under Traffic

When the Roadway being paved is open to traffic, the requirements of this Section shall apply.

The Contractor shall keep intersections open to traffic at all times except when paving the intersection or paving across the intersection. During such time, and provided that there has been an advance warning to the public, the intersection may be closed for the minimum time required to place and compact the mixture. In hot weather, the Engineer may require the application of water to the pavement to accelerate the finish rolling of the pavement and to shorten the time required before reopening to traffic.

Before closing an intersection, advance warning signs shall be placed and signs shall also be placed marking the detour or alternate route.

During paving operations, temporary pavement markings shall be maintained throughout the project. Temporary pavement markings shall be installed on the Roadway prior to opening to traffic. Temporary pavement markings shall be in accordance with Section 8-23.

All costs in connection with performing the Work in accordance with these requirements shall be included in the unit Contract prices for the various Bid items involved in the Contract.

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant

Plants used for the preparation of HMA shall conform to the following requirements:

1. **Equipment for Preparation of Asphalt Binder** – Tanks for the storage of asphalt binder shall be equipped to heat and hold the material at the required temperatures. The heating shall be accomplished by steam coils, electricity, or other approved means so that no flame shall be in contact with the storage tank. The circulating system for the asphalt binder shall be designed to ensure proper and continuous circulation during the operating period. A valve for the purpose of sampling the asphalt binder shall be placed in either the storage tank or in the supply line to the mixer.
2. **Thermometric Equipment** – An armored thermometer, capable of detecting temperature ranges expected in the HMA mix, shall be fixed in the asphalt binder feed line at a location near the charging valve at the mixer unit. The thermometer location shall be convenient and safe for access by Inspectors. The plant shall also be equipped with an approved dial-scale thermometer, a mercury actuated thermometer, an electric pyrometer, or another approved thermometric instrument placed at the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates. This device shall be in full view of the plant operator.
3. **Heating of Asphalt Binder** – The temperature of the asphalt binder shall not exceed the maximum recommended by the asphalt binder manufacturer nor shall it be below the minimum temperature required to maintain the asphalt binder in a homogeneous state. The asphalt binder shall be heated in a manner that will avoid local variations in heating. The heating method shall provide a continuous supply of asphalt binder to the mixer at a uniform

average temperature with no individual variations exceeding 25°F. Also, when a WMA additive is included in the asphalt binder, the temperature of the asphalt binder shall not exceed the maximum recommended by the manufacturer of the WMA additive.

4. **Sampling and Testing of Mineral Materials** – The HMA plant shall be equipped with a mechanical sampler for the sampling of the mineral materials. The mechanical sampler shall meet the requirements of Section 1-05.6 for the crushing and screening operation. The Contractor shall provide for the setup and operation of the field testing facilities of the Contracting Agency as provided for in Section 3-01.2(2).
5. **Sampling HMA** – The HMA plant shall provide for sampling HMA by one of the following methods:
    a. A mechanical sampling device attached to the HMA plant.
    b. Platforms or devices to enable sampling from the hauling vehicle without entering the hauling vehicle.

5-04.3(3)B Hauling Equipment

Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall have a cover of canvas or other suitable material of sufficient size to protect the mixture from adverse weather. Whenever the weather conditions during the work shift include, or are forecast to include, precipitation or an air temperature less than 45°F or when time from loading to unloading exceeds 30 minutes, the cover shall be securely attached to protect the HMA.

The contractor shall provide an environmentally benign means to prevent the HMA mixture from adhering to the hauling equipment. Excess release agent shall be drained prior to filling hauling equipment with HMA. Petroleum derivatives or other coating material that contaminate or alter the characteristics of the HMA shall not be used. For live bed trucks, the conveyer shall be in operation during the process of applying the release agent.

5-04.3(3)C Pavers

HMA pavers shall be self-contained, power-propelled units, provided with an internally heated vibratory screed and shall be capable of spreading and finishing courses of HMA plant mix material in lane widths required by the paving section shown in the Plans.

The HMA paver shall be in good condition and shall have the most current equipment available from the manufacturer for the prevention of segregation of the HMA mixture installed, in good condition, and in working order. The equipment certification shall list the make, model, and year of the paver and any equipment that has been retrofitted.

The screed shall be operated in accordance with the manufacturer's recommendations and shall effectively produce a finished surface of the required evenness and texture without tearing, shoving, segregating, or gouging the mixture. A copy of the manufacturer's recommendations shall be provided upon request by the Contracting Agency. Extensions will be allowed provided they produce the same results, including ride, density, and surface texture as obtained by the primary screed. Extensions without augers and an internally heated vibratory screed shall not be used in the Traveled Way.

When specified in the Contract, reference lines for vertical control will be required. Lines shall be placed on both outer edges of the Traveled Way of each Roadway. Horizontal control utilizing the reference line will be permitted. The grade and slope for intermediate lanes shall be controlled

automatically from reference lines or by means of a mat referencing device and a slope control device. When the finish of the grade prepared for paving is superior to the established tolerances and when, in the opinion of the Engineer, further improvement to the line, grade, cross-section, and smoothness can best be achieved without the use of the reference line, a mat referencing device may be substituted for the reference line. Substitution of the device will be subject to the continued approval of the Engineer. A joint matcher may be used subject to the approval of the Engineer. The reference line may be removed after the completion of the first course of HMA when approved by the Engineer. Whenever the Engineer determines that any of these methods are failing to provide the necessary vertical control, the reference lines will be reinstalled by the Contractor.

The Contractor shall furnish and install all pins, brackets, tensioning devices, wire, and accessories necessary for satisfactory operation of the automatic control equipment.

If the paving machine in use is not providing the required finish, the Engineer may suspend Work as allowed by Section 1-08.6. Any cleaning or solvent type liquids spilled on the pavement shall be thoroughly removed before paving proceeds.

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5-04.3(3)D Material Transfer Vehicle

When used, the MTV shall mix the HMA after delivery by the hauling equipment and prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a uniform temperature throughout the mixture.

To be approved for use, an MTV:

1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.
2. Shall not be connected to the hauling vehicle or paver.
3. May accept HMA directly from the haul vehicle.
4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

Direct transfer of the HMA mixture from the hauling equipment to the paving machine will not be allowed. The Contractor shall use a self-propelled material transfer vehicle (MTV) to deliver the HMA mixture from the hauling equipment to the paving machine when placing HMA pavement on travel lanes and shoulders, when shoulders are paved in conjunction with travel lanes. A material transfer vehicle is not required for small quantities such as driveways and is optional for shoulders that are paved separately from the driving lane(s). A windrow elevator is not acceptable as a transfer device.

The transfer vehicle's holding hopper shall have a minimum capacity of 15 tons. The material transfer vehicle shall mix the HMA after delivery by the hauling equipment but prior to lay down by the paving machine. Mixing of the HMA material shall be sufficient to obtain a consistent temperature throughout the mixture. If a transfer vehicle does not have holding or mixing capabilities, the paving machine shall be fitted with a holding and mixing hopper having a minimum capacity of 15 tons.

Prior to use, the Contractor shall submit the manufacturer and model number of the equipment to the Engineer for review and approval. All costs to incorporate the material transfer device or vehicle into the paving train shall be included in the unit contract price for the HMA.

The Contractor shall deliver the mixture to the paving machine at a rate that provides continuous operation of the paving machine, except for unavoidable delay or breakdown. If excessive stopping of the paving machine occurs during paving operations, the Engineer may suspend paving operations until the mixture deliver rate matches the paving machine operation.

5-04.3(3)E Rollers

Rollers shall be of the steel wheel, vibratory, oscillatory, or pneumatic tire type, in good condition and capable of reversing without backlash. Operation of the roller shall be in accordance with the manufacturer's recommendations. When ordered by the Engineer for any roller planned for use on the project, the Contractor shall provide a copy of the manufacturer's recommendation for the use of that roller for compaction of HMA. The number and weight of rollers shall be sufficient to compact the mixture in compliance with the requirements of Section 5-04.3(10). The use of equipment that results in crushing of the aggregate will not be permitted. Rollers producing pickup, washboard, uneven compaction of the surface, displacement of the mixture or other undesirable results shall not be used.

5-04.3(4) Preparation of Existing Paved Surfaces

When the surface of the existing pavement or old base is irregular, the Contractor shall bring it to a uniform grade and cross-section as shown on the Plans or approved by the Engineer.

Preleveling of uneven or broken surfaces over which HMA is to be placed may be accomplished by using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.

Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may require the use of small steel wheel rollers, plate compactors, or pneumatic rollers to avoid bridging across preleveled areas by the compaction equipment. Equipment used for the compaction of preleveling HMA shall be approved by the Engineer.

Before construction of HMA on an existing paved surface, the entire surface of the pavement shall be clean. All fatty asphalt patches, grease drippings, and other objectionable matter shall be entirely removed from the existing pavement. All pavements or bituminous surfaces shall be thoroughly cleaned of dust, soil, pavement grindings, and other foreign matter. All holes and small depressions shall be filled with an appropriate class of HMA. The surface of the patched area shall be leveled and compacted thoroughly. Prior to the application of tack coat, or paving, the condition of the surface shall be approved by the Engineer.

A tack coat of asphalt shall be applied to all paved surfaces on which any course of HMA is to be placed or abutted; except that tack coat may be omitted from clean, newly paved surfaces at the discretion of the Engineer. Tack coat shall be uniformly applied to cover the existing pavement with a thin film of residual asphalt free of streaks and bare spots at a rate between 0.02 and 0.10 gallons per square yard of retained asphalt. The rate of application shall be approved by the Engineer. A heavy application of tack coat shall be applied to all joints. For Roadways open to traffic, the application of tack coat shall be limited to surfaces that will be paved during the same working shift. The spreading equipment shall be equipped with a thermometer to indicate the temperature of the tack coat material.

Equipment shall not operate on tacked surfaces until the tack has broken and cured. If the Contractor's operation damages the tack coat it shall be repaired prior to placement of the HMA.

The tack coat shall be CSS-1, or CSS-1h emulsified asphalt. The CSS-1 and CSS-1h emulsified asphalt may be diluted once with water at a rate not to exceed one part water to one part emulsified asphalt. The tack coat shall have sufficient temperature such that it may be applied uniformly at the specified rate of application and shall not exceed the maximum temperature recommended by the emulsified asphalt manufacturer.

5-04.3(4)A Crack Sealing

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5-04.3(4)A1 General

When the Proposal includes a pay item for crack sealing, seal all cracks ¼ inch in width and greater. If the Proposal does not include an item for crack sealing or sealed joints it shall be incidental to and included in the unit contract price per ton for the HMA

Cleaning: Ensure that cracks are thoroughly clean, dry and free of all loose and foreign material when filling with crack sealant material. Use a hot compressed air lance to dry and warm the pavement surfaces within the crack immediately prior to filling a crack with the sealant material. Do not overheat pavement. Do not use direct flame dryers. Routing cracks is not required.

Sand Slurry: For cracks that are to be filled with sand slurry, thoroughly mix the components and pour the mixture into the cracks until full. Add additional CSS-1 cationic emulsified asphalt to the sand slurry as needed for workability to ensure the mixture will completely fill the cracks. Strike off the sand slurry flush with the existing pavement surface and allow the mixture to cure. Top off cracks that were not completely filled with additional sand slurry. Do not place the HMA overlay until the slurry has fully cured.

The sand slurry shall consist of approximately 20 percent CSS-1 emulsified asphalt, approximately 2 percent portland cement, water (if required), and the remainder clean Class 1 or 2 fine aggregate per section 9-03.1(2). The components shall be thoroughly mixed and then poured into the cracks and joints until full. The following day, any cracks or joints that are not completely filled shall be topped off with additional sand slurry. After the sand slurry is placed, the filler shall be struck off flush with the existing pavement surface and allowed to cure. The HMA overlay shall not be placed until the slurry has fully cured. The requirements of Section 1-06 will not apply to the portland cement and sand used in the sand slurry.

In areas where HMA will be placed, use sand slurry to fill the cracks.

In areas where HMA will not be placed, fill the cracks as follows:

1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
2. Cracks greater than 1 inch in width – fill with sand slurry.

Hot Poured Sealant: For cracks that are to be filled with hot poured sealant, apply the material in accordance with these requirements and the manufacturer's recommendations. Furnish a Type 1 Working Drawing of the manufacturer's product information and recommendations to the Engineer prior to the start of work, including the manufacturer's recommended heating time and temperatures, allowable storage time and temperatures after initial heating, allowable reheating criteria, and application temperature range. Confine hot poured sealant material within the crack. Clean any overflow of sealant from the pavement surface. If, in the opinion of the Engineer, the Contractor's method of sealing the cracks with hot poured sealant results in an excessive amount of material on the pavement surface, stop and correct the operation to eliminate the excess material.

5-04.3(4)A2 Crack Sealing Areas Prior to Paving

In areas where HMA will be placed, use sand slurry to fill the cracks.

5-04.3(4)A3 Crack Sealing Areas Not to be Paved

In areas where HMA will not be placed, fill the cracks as follows:

A. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
B. Cracks greater than 1 inch in width – fill with sand slurry.

5-04.3(4)B Vacant

5-04.3(4)C Pavement Repair

All planning bituminous pavement shall be complete before performing pavement repair. The Contractor shall excavate pavement repair areas and shall backfill these with HMA in accordance with the details shown in the Plans and as marked in the field. The Contractor shall conduct the excavation operations in a manner that will protect the pavement that is to remain. Pavement not designated to be removed that is damaged as a result of the Contractor's operations shall be repaired by the Contractor to the satisfaction of the Engineer at no cost to the Contracting Agency. The Contractor shall excavate only within one lane at a time unless approved otherwise by the Engineer. The Contractor shall not excavate more area than can be completely finished during the same shift, unless approved by the Engineer.

Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth of 1.0 feet. The Engineer will make the final determination of the excavation depth required. The minimum width of any pavement repair area shall be 40 inches unless shown otherwise in the Plans. Before any excavation, the existing pavement shall be sawcut or shall be removed by a pavement grinder. Excavated materials will become the property of the Contractor and shall be disposed of in a Contractor-provided site off the Right of Way or used in accordance with Sections 2-02.3(3) or 9-03.21.

Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy application of tack coat shall be applied to all surfaces of existing pavement in the pavement repair area.

Placement of the HMA backfill shall be accomplished in lifts not to exceed 0.35-foot compacted depth. Lifts that exceed 0.35-foot of compacted depth may be accomplished with the approval of the Engineer. Each lift shall be thoroughly compacted by a mechanical tamper or a roller.

5-04.3(5) Producing/Stockpiling Aggregates and RAP

Aggregates and RAP shall be stockpiled according to the requirements of Section 3-02. Sufficient storage space shall be provided for each size of aggregate and RAP. Materials shall be removed from stockpile(s) in a manner to ensure minimal segregation when being moved to the HMA plant for processing into the final mixture. Different aggregate sizes shall be kept separated until they have been delivered to the HMA plant.

5-04.3(5)A Vacant

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5-04.3(6) Mixing

After the required amount of mineral materials, asphalt binder, recycling agent and anti-stripping additives have been introduced into the mixer the HMA shall be mixed until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials is ensured.

When discharged, the temperature of the HMA shall not exceed the optimum mixing temperature by more than 25°F as shown on the reference mix design report or as approved by the Engineer. A maximum water content of 2 percent in the mix, at discharge, will be allowed providing the water causes no problems with handling, stripping, or flushing. If the water in the HMA causes any of these problems, the moisture content shall be reduced as directed by the Engineer.

Storing or holding of the HMA in approved storage facilities will be permitted with approval of the Engineer, but in no event shall the HMA be held for more than 24 hours. HMA held for more than 24 hours after mixing shall be rejected. Rejected HMA shall be disposed of by the Contractor at no expense to the Contracting Agency. The storage facility shall have an accessible device located at the top of the cone or about the third point. The device shall indicate the amount of material in storage. No HMA shall be accepted from the storage facility when the HMA in storage is below the top of the cone of the storage facility, except as the storage facility is being emptied at the end of the working shift.

Reinforcing Fibers:

1. Delivery & Storage: Deliver fiber-reinforcement to plant in sealed, undamaged containers with labels intact and legible, indicating material name and lot number. Store materials covered and off the ground. Keep sand and dust out of boxes and do not allow boxes to become wet.

2. Add aramid and polyolefin reinforcing fiber blends at a dosage rate of one (1) pound per one (1) ton of asphalt.

3. Add alternative aramid fiber blends at a rate proposed by the manufacturer that achieves the ADSR, PCI, and FN results required in Section 5-04.2.

4. Have a fiber manufacturer's representative on site during mixing and production. This requirement can be waived if fiber manufacturer and asphalt producer can supply evidence of manufacturer's brand of fiber being successfully produced a minimum of three times at the asphalt plant to be used for the project.

5. Batch Plant. When a batch plant is used, add fiber to the aggregate in the weigh hopper and increase both dry and wet mixing times. Ensure that the fiber is uniformly distributed before the injection of asphalt cement into the mixture.

6. Drum Plant:
   a. Inject fibers through the RAP collar by feeding them with a blower tube system. Rate the feeding of fibers with the rate the plant is producing asphalt mix. If there is any evidence of fiber balls at the discharge chute, increase the mixing time and/or temperature or change the angle of the fiber feeder line to increase dry mixing time.
   b. When using a blower tube system, add fibers continuously and in a steady uniform manner. Provide automated proportioning devices and control delivery within ±10% of the mass of the fibers required. Perform an equipment calibration to the satisfaction of the fiber manufacturer's representative to show that the fiber is being accurately metered and uniformly distributed into the mix.

      Include the following with the blower tube system:

      - Low level indicators
      - No-flow indicators
      - A printout of feed rate status in pounds/minute
      - A section of transparent pipe in the fiber supply line for observing consistency of flow or feed.
      - Manufacturer's representative's approval of fiber addition system

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5-04.3(7) Spreading and Finishing

The mixture shall be laid upon an approved surface, spread, and struck off to the grade and elevation established. HMA pavers complying with Section 5-04.3(3) shall be used to distribute the mixture. Unless otherwise directed by the Engineer, the nominal compacted depth of any layer of any course shall not exceed the following:

HMA Class 1"		0.35 feet
HMA Class ¾" and HMA Class ½"		
	wearing course	0.30 feet
	other courses	0.35 feet
HMA Class ⅜"		0.20 feet

On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the paving may be done with other equipment or by hand.

When more than one JMF is being utilized to produce HMA, the material produced for each JMF shall be placed by separate spreading and compacting equipment. The intermingling of HMA

produced from more than one JMF is prohibited. Each strip of HMA placed during a work shift shall conform to a single JMF established for the class of HMA specified unless there is a need to make an adjustment in the JMF.

5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA

For HMA accepted by nonstatistical evaluation the aggregate properties of sand equivalent, uncompacted void content and fracture will be evaluated in accordance with Section 3-04. Sampling and testing of aggregates for HMA accepted by commercial evaluation will be at the option of the Engineer.

5-04.3(9) HMA Mixture Acceptance

Acceptance of HMA shall be as provided under nonstatistical, or commercial evaluation.

Nonstatistical evaluation will be used for the acceptance of HMA unless Commercial Evaluation is specified.

Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Engineer.

The mix design will be the initial JMF for the class of HMA. The Contractor may request a change in the JMF. Any adjustments to the JMF will require the approval of the Engineer and may be made in accordance with this section.

Spreading and Finishing
(******)

The Contractor shall meet with the Engineer or representative by the end of each working day to verify and confirm in writing and by signature the daily yields and quantities.

If the Contractor fails to follow this procedure, the Contractor accepts the Engineer's estimated quantities for the work completed that day.

Overages
The Contractor shall not exceed the negotiated quantity on any section by more than **five percent (5%)**, unless directed by the Engineer. Any material placed on each individual section in excess of the five percent shall be at the Contractor's expense.

This provision shall not relieve the Contractor of his/her responsibility to complete each section in its entirety.

Reinforcing Fibers:

1. Follow manufacturer's representative's recommendations for placement of FRAC.

2. Collect a small sample (10-20kg) of mix from the discharge chute during first 50 tons of production. If there are one or more undistributed fiber clips or bundles, adjust mixing operations per manufacturer's recommendations to eliminate fiber bundles.
3. Visually observe FRAC mix in the back of first three trucks and every tenth truck thereafter to confirm adequate blending of the fiber.
4. Remove any observed fiber bundles from placed mixture and adjust operations per the manufacturer's recommendation to eliminate future fiber bundle development.

HMA Tolerances and Adjustments

1. **Job Mix Formula Tolerances** – The constituents of the mixture at the time of acceptance shall be within tolerance. The tolerance limits will be established as follows:

   For Asphalt Binder and Air Voids (Va), the acceptance limits are determined by adding the tolerances below to the approved JMF values. These values will also be the Upper Specification Limit (USL) and Lower Specification Limit (LSL) required in Section 1-06.2(2)D2

Property	Non-Statistical Evaluation	Commercial Evaluation
Asphalt Binder	+/- 0.5%	+/- 0.7%
Air Voids, Va	2.5% min. and 5.5% max	N/A

   For Aggregates in the mixture:

   a. First, determine preliminary upper and lower acceptance limits by applying the following tolerances to the approved JMF.

Aggregate Percent Passing	Non-Statistical Evaluation	Commercial Evaluation
1", ¾", ½", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/-5%	+/- 8%
No. 8 Sieve	+/- 4%	+/-8%
No. 200 sieve	+/- 1.0%	+/- 3.0%

   b. Second, adjust the preliminary upper and lower acceptance limits determined from step (a) the minimum amount necessary so that none of the aggregate properties are outside the control points in Section 9-03.8(6). The resulting values will be the upper and lower acceptance limits for aggregates, as well as the USL and LSL required in Section 1-06.2(2)D2.

2. Job Mix Formula Adjustments – An adjustment to the aggregate gradation or asphalt binder content of the JMF requires approval of the Engineer. Adjustments to the JMF will only be considered if the change produces material of equal or better quality and may require the development of a new mix design if the adjustment exceeds the amounts listed below.

   a. **Aggregates** –2 percent for the aggregate passing the 1½″, 1″, ¾″, ½″, ⅜″, and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and 0.5 percent for the aggregate passing the No. 200 sieve. The adjusted JMF shall be within the range of the control points in Section 9-03.8(6).

   b. **Asphalt Binder Con**tent – The Engineer may order or approve changes to asphalt binder content. The maximum adjustment from the approved mix design for the asphalt binder content shall be 0.3 percent

5-04.3(9)A Vacant

5-04.3(9)B Vacant

5-04.3(9)C Mixture Acceptance – Nonstatistical Evaluation

HMA mixture which is accepted by Nonstatistical Evaluation will be evaluated by the Contracting Agency by dividing the HMA tonnage into lots.

5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots and Sublots

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A sublot shall be equal to one day's production or 800 tons, whichever is less except that the final sublot will be a minimum of 400 tons and may be increased to 1200 tons.

All of the test results obtained from the acceptance samples from a given lot shall be evaluated collectively. If the Contractor requests a change to the JMF that is approved, the material produced after the change will be evaluated on the basis of the new JMF for the remaining sublots in the current lot and for acceptance of subsequent lots. For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.

Sampling and testing for evaluation shall be performed on the frequency of one sample per sublot.

5-04.3(9)C2 Mixture Nonstatistical Evaluation Sampling

Samples for acceptance testing shall be obtained by the Contractor when ordered by the Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer and in accordance with AASH-TO T 168. A minimum of three samples should be taken for each class of HMA placed on a project. If used in a structural application, at least one of the three samples shall to be tested.

Sampling and testing HMA in a Structural application where quantities are less than 400 tons is at the discretion of the Engineer.

For HMA used in a structural application and with a total project quantity less than 800 tons but more than 400 tons, a minimum of one acceptance test shall be performed. In all cases, a minimum of 3 samples will be obtained at the point of acceptance, a minimum of one of the three samples will be tested for conformance to the JMF:

- If the test results are found to be within specification requirements, additional testing will be at the Engineer's discretion.
- If test results are found not to be within specification requirements, additional testing of the remaining samples to determine a Composite Pay Factor (CPF) shall be performed.

5-04.3(9)C3 Mixture Nonstatistical Evaluation – Acceptance Testing

Testing of HMA for compliance of V_a will be at the option of the Contracting Agency. If tested, compliance of V_a will use WSDOT SOP 731.

Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308.

Testing for compliance of gradation will be by FOP for WAQTC T 27/T 11.

5-04.3(9)C4 Mixture Nonstatistical Evaluation – Pay Factors

For each lot of material falling outside the tolerance limits in 5-04.3(9), the Contracting Agency will determine a Composite Pay Factor (CPF) using the following price adjustment factors:

Table of Price Adjustment Factors	
Constituent	**Factor "f"**
All aggregate passing: 1½″, 1″, ¾″, ½″, ⅜″ and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (Va) (where applicable)	20

Each lot of HMA produced under Nonstatistical Evaluation and having all constituents falling within the tolerance limits of the job mix formula shall be accepted at the unit Contract price with no further evaluation. When one or more constituents fall outside the nonstatistical tolerance limits in the Job Mix Formula shown in Table of Price Adjustment Factors, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The nonstatistical tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the existing sublots or samples from the Roadway shall be tested to provide a minimum of three sets of results for evaluation.

5-04.3(9)C5 Vacant

5-04.3(9)C6 Mixture Nonstatistical Evaluation – Price Adjustments

For each lot of HMA mix produced under Nonstatistical Evaluation when the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The total job mix compliance price adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

If a constituent is not measured in accordance with these Specifications, its individual pay factor will be considered 1.00 in calculating the Composite Pay Factor (CPF).

5-04.3(9)C7 Mixture Nonstatistical Evaluation - Retests

The Contractor may request a sublot be retested. To request a retest, the Contractor shall submit a written request within 7 calendar days after the specific test results have been received. A split of the original acceptance sample will be retested. The split of the sample will not be tested with the same tester that ran the original acceptance test. The sample will be tested for a complete gradation analysis, asphalt binder content, and, at the option of the agency, V_a. The results of the

retest will be used for the acceptance of the HMA in place of the original sublot sample test results. The cost of testing will be deducted from any monies due or that may come due the Contractor under the Contract at the rate of $500 per sample.

5-04.3 (9)D Mixture Acceptance – Commercial Evaluation

If sampled and tested, HMA produced under Commercial Evaluation and having all constituents falling within the tolerance limits of the job mix formula shall be accepted at the unit Contract price with no further evaluation. When one or more constituents fall outside the commercial tolerance limits in the Job Mix Formula shown in 5-04.3(9), the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The commercial tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the existing sublots or samples from the street shall be tested to provide a minimum of three sets of results for evaluation.

For each lot of HMA mix produced and tested under Commercial Evaluation when the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The Job Mix Compliance Price Adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

If a constituent is not measured in accordance with these Specifications, its individual pay factor will be considered 1.00 in calculating the Composite Pay Factor (CPF).

5-04.3(10) HMA Compaction Acceptance

HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including lanes for intersections, ramps, truck climbing, weaving, and speed change, and having a specified compacted course thickness greater than 0.10-foot, shall be compacted to a specified level of relative density. The specified level of relative density shall be a Composite Pay Factor (CPF) of not less than 0.75 when evaluated in accordance with Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of the maximum density). The maximum density shall be determined by WSDOT FOP for AASHTO T 729. The specified level of density attained will be determined by the evaluation of the density of the pavement. The density of the pavement shall be determined in accordance with WSDOT FOP for ASSHTO T 355, except that gauge correlation will be at the discretion of the Engineer, when using the nuclear density gauge and WSDOT SOP 736 when using cores to determine density.

Tests for the determination of the pavement density will be taken in accordance with the required procedures for measurement by a nuclear density gauge or roadway cores after completion of the finish rolling.

If the Contracting Agency uses a nuclear density gauge to determine density the test procedures WSDOT FOP for ASSHTO T 355 and WSDOT SOP T 729 will be used on the day the mix is placed and prior to opening to traffic.

Roadway cores for density may be obtained by either the Contracting Agency or the Contractor in accordance with WSDOT SOP 734. The core diameter shall be 4-inches minimum, unless otherwise approved by the Engineer. Roadway cores will be tested by the Contracting Agency in accordance with WSDOT FOP for AASHTO T 166.

If the Contract includes the Bid item “Roadway Core” the cores shall be obtained by the Contractor in the presence of the Engineer on the same day the mix is placed and at locations designated by the Engineer. If the Contract does not include the Bid item “Roadway Core” the Contracting Agency will obtain the cores.

For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor’s request after the Engineer is satisfied that material conforming to the Specifications can be produced.

HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than those listed above shall be compacted on the basis of a test point evaluation of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

HMA for preleveling shall be thoroughly compacted. HMA that is used for preleveling wheel rutting shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.

Test Results

For a sublot that has been tested with a nuclear density gauge that did not meet the minimum of 92 percent of the reference maximum density in a compaction lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor may request that a core be used for determination of the relative density of the sublot. The relative density of the core will replace the relative density determined by the nuclear density gauge for the sublot and will be used for calculation of the CPF and acceptance of HMA compaction lot.

When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the sublot have been provided or made available to the Contractor. Core locations shall be outside of wheel paths and as determined by the Engineer. Traffic control shall be provided by the Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for cores. When the CPF for the lot based on the results of the HMA cores is less than 1.00, the cost for the coring will be deducted from any monies due or that may become due the Contractor under the Contract at the rate of $200 per core and the Contractor shall pay for the cost of the traffic control.

5-04.3(10)A HMA Compaction – General Compaction Requirements

Compaction shall take place when the mixture is in the proper condition so that no undue displacement, cracking, or shoving occurs. Areas inaccessible to large compaction equipment shall be compacted by other mechanical means. Any HMA that becomes loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way defective, shall be removed and replaced with new hot mix that shall be immediately compacted to conform to the surrounding area.

The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor’s option, provided the specified densities are attained. Unless the Engineer has approved otherwise, rollers shall only be operated in the static mode when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, a roller shall not be operated in a

mode that results in checking or cracking of the mat. Rollers shall only be operated in static mode on bridge decks.

5-04.3(10)B HMA Compaction – Cyclic Density

Low cyclic density areas are defined as spots or streaks in the pavement that are less than 90 percent of the theoretical maximum density. At the Engineer's discretion, the Engineer may evaluate the HMA pavement for low cyclic density, and when doing so will follow WSDOT SOP 733. A $500 Cyclic Density Price Adjustment will be assessed for any 500-foot section with two or more density readings below 90 percent of the theoretical maximum density.

5-04.3(10)C Vacant

5-04.3(10)D HMA Nonstatistical Compaction

5-04.3(10)D1 HMA Nonstatistical Compaction – Lots and Sublots

HMA compaction which is accepted by nonstatistical evaluation will be based on acceptance testing performed by the Contracting Agency dividing the project into compaction lots.

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A sublot shall be equal to one day's production or 400 tons, whichever is less except that the final sublot will be a minimum of 200 tons and may be increased to 800 tons. Testing for compaction will be at the rate of 5 tests per sublot per WSDOT T 738. The compaction test locations will be determined by the Engineer in accordance with WSDOT Test Method T 716.

The sublot locations within each density lot will be determined by the Engineer. For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.

HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than those listed above shall be compacted on the basis of a test point evaluation of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

HMA for preleveling shall be thoroughly compacted. HMA that is used to prelevel wheel ruts shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.

5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing

The location of the HMA compaction acceptance tests will be randomly selected by the Engineer from within each sublot, with one test per sublot. The Contracting Agency will determine the random sample location using WSDOT Test Method T 716.

5-04.3(10)D3 HMA Nonstatistical Compaction – Price Adjustments

For each compaction lot with one or two sublots, having all sublots attain a relative density that is 92 percent of the reference maximum density the HMA shall be accepted at the unit Contract price with no further evaluation. When a sublot does not attain a relative density that is 92 percent of the

reference maximum density, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The maximum CPF shall be 1.00, however, lots with a calculated CPF in excess of 1.00 will be used to offset lots with CPF values below 1.00 but greater than 0.90. Lots with CPF lower than 0.90 will be evaluated for compliance per 5-04.3(11). Additional testing by either a nuclear moisture-density gauge or cores will be completed as required to provide a minimum of three tests for evaluation.

For compaction below the required 92% a Non-Conforming Compaction Factor (NCCF) will be determined. The NCCF equals the algebraic difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of CPF, the quantity of HMA in the compaction control lot in tons, and the unit Contract price per ton of mix.

5-04.3(11) Reject Work

5-04.3(11)A Reject Work General

Work that is defective or does not conform to Contract requirements shall be rejected. The Contractor may propose, in writing, alternatives to removal and replacement of rejected material. Acceptability of such alternative proposals will be determined at the sole discretion of the Engineer. HMA that has been rejected is subject to the requirements in Section 1-06.2(2) and this specification, and the Contractor shall submit a corrective action proposal to the Engineer for approval.

5-04.3(11)B Rejection by Contractor

The Contractor may, prior to sampling, elect to remove any defective material and replace it with new material. Any such new material will be sampled, tested, and evaluated for acceptance.

5-04.3(11)C Rejection Without Testing (Mixture or Compaction)

The Engineer may, without sampling, reject any batch, load, or section of Roadway that appears defective. Material rejected before placement shall not be incorporated into the pavement. Any rejected section of Roadway shall be removed.

No payment will be made for the rejected materials or the removal of the materials unless the Contractor requests that the rejected material be tested. If the Contractor elects to have the rejected material tested, a minimum of three representative samples will be obtained and tested. Acceptance of rejected material will be based on conformance with the nonstatistical acceptance Specification. If the CPF for the rejected material is less than 0.75, no payment will be made for the rejected material; in addition, the cost of sampling and testing shall be borne by the Contractor. If the CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne by the Contracting Agency. If the material is rejected before placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at a CPF of 0.75. If rejection occurs after placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at the calculated CPF with an addition of 25 percent of the unit Contract price added for the cost of removal and disposal.

5-04.3(11)D Rejection - A Partial Sublot

In addition to the random acceptance sampling and testing, the Engineer may also isolate from a normal sublot any material that is suspected of being defective in relative density, gradation or asphalt binder content. Such isolated material will not include an original sample location. A

minimum of three random samples of the suspect material will be obtained and tested. The material will then be statistically evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)E Rejection - An Entire Sublot

An entire sublot that is suspected of being defective may be rejected. When a sublot is rejected a minimum of two additional random samples from this sublot will be obtained. These additional samples and the original sublot will be evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)F Rejection - A Lot in Progress

The Contractor shall shut down operations and shall not resume HMA placement until such time as the Engineer is satisfied that material conforming to the Specifications can be produced:

1. When the Composite Pay Factor (CPF) of a lot in progress drops below 1.00 and the Contractor is taking no corrective action, or
2. When the Pay Factor (PF) for any constituent of a lot in progress drops below 0.95 and the Contractor is taking no corrective action, or
3. When either the PFi for any constituent or the CPF of a lot in progress is less than 0.75.

5-04.3(11)G Rejection - An Entire Lot (Mixture or Compaction)

An entire lot with a CPF of less than 0.75 will be rejected.

5-04.3(12) Joints

5-04.3(12)A HMA Joints

5-04.3(12)A1 Transverse Joints

The Contractor shall conduct operations such that the placing of the top or wearing course is a continuous operation or as close to continuous as possible. Unscheduled transverse joints will be allowed and the roller may pass over the unprotected end of the freshly laid mixture only when the placement of the course must be discontinued for such a length of time that the mixture will cool below compaction temperature. When the Work is resumed, the previously compacted mixture shall be cut back to produce a slightly beveled edge for the full thickness of the course.

A temporary wedge of HMA constructed on a 20H:1V shall be constructed where a transverse joint as a result of paving or planing is open to traffic. The HMA in the temporary wedge shall be separated from the permanent HMA by strips of heavy wrapping paper or other methods approved by the Engineer. The wrapping paper shall be removed and the joint trimmed to a slightly beveled edge for the full thickness of the course prior to resumption of paving.

The material that is cut away shall be wasted and new mix shall be laid against the cut. Rollers or tamping irons shall be used to seal the joint.

5-04.3(12)A2 Longitudinal Joints

The longitudinal joint in any one course shall be offset from the course immediately below by not more than 6 inches nor less than 2 inches. All longitudinal joints constructed in the wearing course shall be located at a lane line or an edge line of the Traveled Way. A notched wedge joint shall be

constructed along all longitudinal joints in the wearing surface of new HMA unless otherwise approved by the Engineer. The notched wedge joint shall have a vertical edge of not less than the maximum aggregate size or more than ½ of the compacted lift thickness and then taper down on a slope not steeper than 4H:1V. The sloped portion of the HMA notched wedge joint shall be uniformly compacted.

5-04.3(12)B Bridge Paving Joint Seals

5-04.3(12)B1 HMA Sawcut and Seal

Prior to placing HMA on the bridge deck, establish sawcut alignment points at both ends of the bridge paving joint seals to be placed at the bridge ends, and at interior joints within the bridge deck when and where shown in the Plans. Establish the sawcut alignment points in a manner that they remain functional for use in aligning the sawcut after placing the overlay.

Submit a Type 1 Working Drawing consisting of the sealant manufacturer's application procedure.

Construct the bridge paving joint seal as specified ion the Plans and in accordance with the detail shown in the Standard Plans. Construct the sawcut in accordance with the detail shown in the Standard Plan. Construct the sawcut in accordance with Section 5-05.3(8)B and the manufacturer's application procedure.

5-04.3(12)B2 Paved Panel Joint Seal

Construct the paved panel joint seal in accordance with the requirements specified in Section 5-04.3(12)B1 and the following requirement:

1. Clean and seal the existing joint between concrete panels in accordance with Section 5-01.3(8) and the details shown in the Standard Plans.

5-04.3(13) Surface Smoothness

The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary more than ⅛ inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline. The transverse slope of the completed surface of the wearing course shall vary not more than ¼ inch in 10 feet from the rate of transverse slope shown in the Plans.

When deviations in excess of the above tolerances are found that result from a high place in the HMA, the pavement surface shall be corrected by one of the following methods:

1. Removal of material from high places by grinding with an approved grinding machine, or
2. Removal and replacement of the wearing course of HMA, or
3. By other method approved by the Engineer.

Correction of defects shall be carried out until there are no deviations anywhere greater than the allowable tolerances.

Deviations in excess of the above tolerances that result from a low place in the HMA and deviations resulting from a high place where corrective action, in the opinion of the Engineer, will not produce

satisfactory results will be accepted with a price adjustment. The Engineer shall deduct from monies due or that may become due to the Contractor the sum of $500.00 for each and every section of single traffic lane 100 feet in length in which any excessive deviations described above are found.

When utility appurtenances such as manhole covers and valve boxes are located in the traveled way, the utility appurtenances shall be adjusted to the finished grade prior to paving. This requirement may be waived when requested by the Contractor, at the discretion of the Engineer or when the adjustment details provided in the project plan or specifications call for utility appurtenance adjustments after the completion of paving.

Utility appurtenance adjustment discussions will be included in the Pre-Paving planning (5-04.3(14)B3). Submit a written request to waive this requirement to the Engineer prior to the start of paving.

5-04.3(14) Planing (Milling) Bituminous Pavement

The planing plan must be approved by the Engineer and a pre planing meeting must be held prior to the start of any planing. See Section 5-04.3(14)B2 for information on planing submittals.

Locations of existing surfacing to be planed are as shown in the Drawings.

For mainline planing operations, use equipment with automatic controls and with sensors for either or both sides of equipment. The controls shall be capable of sensing the grade from an outside reference line, or a mat-referencing device. The automatic controls shall have a transverse slope controller capable of maintaining the mandrel at the desired transverse slope (expressed as a percentage) within plus or minus 0.1 percent.

Where planing an existing pavement is specified in the Contract, the Contractor must remove existing surfacing material and to reshape the surface to remove irregularities. The finished product must be a prepared surface acceptable for receiving an HMA overlay.

Use the cold milling method for planing unless otherwise specified in the Contract. Do not use the planer on the final wearing course of new HMA.

Conduct planing operations in a manner that does not tear, break, burn, or otherwise damage the surface which is to remain. The finished planed surface must be slightly grooved or roughened and must be free from gouges, deep grooves, ridges, or other imperfections. The Contractor must repair any damage to the surface by the Contractor’s planing equipment, using an Engineer approved method.

The Contractor where necessary shall plane or grind, and provide any hand work necessary to work around utility appurtenances, castings, lids, curbs, gutters, sidewalks, manholes, and catch basins to provide smooth transition of pavement to the finished thickness and grade as staked in the field or approved by the Engineer.

Repair or replace any metal castings and other surface improvements damaged by planing, as determined by the Engineer.

A tapered wedge cut must be planed longitudinally along curb lines sufficient to provide a minimum of 4 inches of curb reveal after placement and compaction of the final wearing course. The dimensions of the wedge must be as shown on the Drawings or as specified by the Engineer.

A tapered wedge cut must also be made at transitions to adjoining pavement surfaces (meet lines) where butt joints are shown on the Drawings. Cut butt joints in a straight line with vertical faces 2 inches or more in height, producing a smooth transition to the existing adjoining pavement.

After planing is complete, planed surfaces must be swept, cleaned, and if required by the Contract, patched and preleveled.

The Engineer may direct additional depth planing. Before performing this additional depth planing, the Contractor must conduct a hidden metal in pavement detection survey as specified in Section 5-04.3(14)A.

5-04.3(14)A Pre-Planing Metal Detection Check

Before starting planing of pavements, and before any additional depth planing required by the Engineer, the Contractor must conduct a physical survey of existing pavement to be planed with equipment that can identify hidden metal objects.

Should such metal be identified, promptly notify the Engineer.

See Section 1-07.16(1) regarding the protection of survey monumentation that may be hidden in pavement.

The Contractor is solely responsible for any damage to equipment resulting from the Contractor's failure to conduct a pre-planing metal detection survey, or from the Contractor's failure to notify the Engineer of any hidden metal that is detected.

5-04.3(14)B Paving and Planing Under Traffic

5-04.3(14)B1 General

In addition the requirements of Section 1-07.23 and the traffic controls required in Section 1-10, and unless the Contract specifies otherwise or the Engineer approves, the Contractor must comply with the following:

1. Intersections:
   a. Keep intersections open to traffic at all times, except when paving or planing operations through an intersection requires closure. Such closure must be kept to the minimum time required to place and compact the HMA mixture, or plane as appropriate. For paving, schedule such closure to individual lanes or portions thereof that allows the traffic volumes and schedule of traffic volumes required in the approved traffic control plan. Schedule work so that adjacent intersections are not impacted at the same time and comply with the traffic control restrictions required by the Traffic Engineer. Each individual intersection closure or partial closure, must be addressed in the traffic control plan, which must be submitted to and accepted by the Engineer, see Section 1-10.2(2).

b. When planing or paving and related construction must occur in an intersection, consider scheduling and sequencing such work into quarters of the intersection, or half or more of an intersection with side street detours. Be prepared to sequence the work to individual lanes or portions thereof.
c. Should closure of the intersection in its entirety be necessary, and no trolley service is impacted, keep such closure to the minimum time required to place and compact the HMA mixture, plane, remove asphalt, tack coat, and as needed.
d. Any work in an intersection requires advance warning in both signage and a number of Working Days advance notice as determined by the Engineer, to alert traffic and emergency services of the intersection closure or partial closure.
e. Allow new compacted HMA asphalt to cool to ambient temperature before any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until approval has been obtained from the Engineer.

2. Temporary centerline marking, post-paving temporary marking, temporary stop bars, and maintaining temporary pavement marking must comply with Section 8-23.
3. Permanent pavement marking must comply with Section 8-22.

5-04.3(14)B2 Submittals – Planing Plan and HMA Paving Plan

The Contractor must submit a separate planing plan and a separate paving plan to the Engineer at least 5 Working Days in advance of each operation's activity start date. These plans must show how the moving operation and traffic control are coordinated, as they will be discussed at the pre-planing briefing and pre-paving briefing. When requested by the Engineer, the Contractor must provide each operation's traffic control plan on 24 x 36 inch or larger size Shop Drawings with a scale showing both the area of operation and sufficient detail of traffic beyond the area of operation where detour traffic may be required. The scale on the Shop Drawings is 1 inch = 20 feet, which may be changed if the Engineer agrees sufficient detail is shown.

The planing operation and the paving operation include, but are not limited to, metal detection, removal of asphalt and temporary asphalt of any kind, tack coat and drying, staging of supply trucks, paving trains, rolling, scheduling, and as may be discussed at the briefing.

When intersections will be partially or totally blocked, provide adequately sized and noticeable signage alerting traffic of closures to come, a minimum 2 Working Days in advance. The traffic control plan must show where police officers will be stationed when signalization is or may be, countermanded, and show areas where flaggers are proposed.

At a minimum, the planing and the paving plan must include:

1. A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing each day's traffic control as it relates to the specific requirements of that day's planing and paving. Briefly describe the sequencing of traffic control consistent with the proposed planing and paving sequence, and scheduling of placement of temporary pavement markings and channelizing devices after each day's planing, and paving.
2. A copy of each intersection's traffic control plan.
3. Haul routes from Supplier facilities, and locations of temporary parking and staging areas, including return routes. Describe the complete round trip as it relates to the sequencing of paving operations.
4. Names and locations of HMA Supplier facilities to be used.

5. List of all equipment to be used for paving.
6. List of personnel and associated job classification assigned to each piece of paving equipment.
7. Description (geometric or narrative) of the scheduled sequence of planing and of paving, and intended area of planing and of paving for each day's work, must include the directions of proposed planing and of proposed paving, sequence of adjacent lane paving, sequence of skipped lane paving, intersection planing and paving scheduling and sequencing, and proposed notifications and coordinations to be timely made. The plan must show HMA joints relative to the final pavement marking lane lines.
8. Names, job titles, and contact information for field, office, and plant supervisory personnel.
9. A copy of the approved Mix Designs.
10. Tonnage of HMA to be placed each day.
11. Approximate times and days for starting and ending daily operations.

5-04.3(14)B3 Pre-Paving and Pre-Planing Briefing

At least 2 Working Days before the first paving operation and the first planing operation, or as scheduled by the Engineer for future paving and planing operations to ensure the Contractor has adequately prepared for notifying and coordinating as required in the Contract, the Contractor must be prepared to discuss that day's operations as they relate to other entities and to public safety and convenience, including driveway and business access, garbage truck operations, Metro transit operations and working around energized overhead wires, school and nursing home and hospital and other accesses, other contractors who may be operating in the area, pedestrian and bicycle traffic, and emergency services. The Contractor, and Subcontractors that may be part of that day's operations, must meet with the Engineer and discuss the proposed operation as it relates to the submitted planing plan and paving plan, approved traffic control plan, and public convenience and safety. Such discussion includes, but is not limited to:

1. General for both Paving Plan and for Planing Plan:
    a. The actual times of starting and ending daily operations.
    b. In intersections, how to break up the intersection, and address traffic control and signalization for that operation, including use of peace officers.
    c. The sequencing and scheduling of paving operations and of planing operations, as applicable, as it relates to traffic control, to public convenience and safety, and to other con-tractors who may operate in the Project Site.
    d. Notifications required of Contractor activities, and coordinating with other entities and the public as necessary.
    e. Description of the sequencing of installation and types of temporary pavement markings as it relates to planning and to paving.
    f. Description of the sequencing of installation of, and the removal of, temporary pavement patch material around exposed castings and as may be needed
    g. Description of procedures and equipment to identify hidden metal in the pavement, such as survey monumentation, monitoring wells, street car rail, and castings, before planning, see Section 5-04.3(14)B2.
    h. Description of how flaggers will be coordinated with the planing, paving, and related operations.
    i. Description of sequencing of traffic controls for the process of rigid pavement base repairs.
    j. Other items the Engineer deems necessary to address.

2. Paving – additional topics:
    a. When to start applying tack and coordinating with paving.
    b. Types of equipment and numbers of each type equipment to be used. If more pieces of equipment than personnel are proposed, describe the sequencing of the personnel operating the types of equipment. Discuss the continuance of operator personnel for each type equipment as it relates to meeting Specification requirements.
    c. Number of JMFs to be placed, and if more than one JMF how the Contractor will ensure different JMFs are distinguished, how pavers and MTVs are distinguished if more than one JMF is being placed at the time, and how pavers and MTVs are cleaned so that one JMF does not adversely influence the other JMF.
    d. Description of contingency plans for that day's operations such as equipment breakdown, rain out, and Supplier shutdown of operations.
    e. Number of sublots to be placed, sequencing of density testing, and other sampling and testing.

5-04.3(15) Sealing Pavement Surfaces

Apply a fog seal where shown in the plans. Construct the fog seal in accordance with Section 5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior to opening to traffic.

5-04.3(16) HMA Road Approaches

HMA approaches shall be constructed at the locations shown in the Plans or where staked by the Engineer. The Work shall be performed in accordance with Section 5-04.

(******)

5-04.4 Measurement

"HMA Class 3/8 In. PG 58H-22 Fiber Reinforced" per Ton.

(******)

5-04.5 Payment

Payment will be made for each of the following Bid items that are included in the Proposal:

"HMA Class 3/8 In. PG 58H-22 Fiber Reinforced" per Ton.

The unit contract price per ton for "HMA Class 3/8 In. PG 58H-22 Fiber Reinforced" shall be full compensation for all costs, including paving reinforcing fiber, anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for those costs included in other items which are included in this Subsection and which are included in the Proposal.

(******)

5-04.5(1) Quality Assurance Price Adjustment

In the event that test results indicate the HMA does not meet specifications, a change order will be issued for the price adjustments for Quality of HMA Mixture and Quality of HMA Compaction based upon these specifications.

(******)

5-04.5(1)B Price Adjustments for Quality of HMA Compaction

The maximum CPF of a compaction lot is 1.00.

For each compaction lot of HMA when the CPF is less than 1.00, a Nonconforming Compaction Factor (NCCF) will be determined. THE NCCF equals the algebraic difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of the NCCF, the quantity of HMA in the lot in tons and the unit contract price per ton of the mix.

(******)
The CPF shall be as follows:

Compaction	CPF
91.0% to 91.9%	95%
90.0% to 90.9%	90%
89.0% to 89.9%	80%
88.0% to 88.9%	75%
At or below 87.9%	Mix is removed

DIVISION 7
DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND CONDUITS

7-02 CULVERTS

7-02.2 Materials
Section 7-02.2 is supplemented with the following:

(******)
Split Box Culvert

Portland cement shall conform to Section 9-01.

Steel reinforcing bar, wire, and mesh shall conform to Section 9-07.

Concrete curing materials and admixtures shall conform to Section 9-23.

Water shall conform to Section 9-25.1.

Grout shall conform to Manufacturer's recommendations.

7-02.3 Construction Requirements
Section 7-02.3 is supplemented with the following:

7-02.3(6) Precast Reinf. Conc. Three Sided Structures, Box Culverts and Split Box Culverts
Section 7-02.3(6) is supplemented with the following:

(******)
Split Box Culvert
Design Criteria
The Contractor shall design the precast reinforced concrete split box culvert including all precast reinforced concrete attachments to the box culverts such as wingwalls, in accordance with the AASHTO Standard Specifications for Highway Bridges, 17th Edition – 2002, Chapters 6 and 16, load factor design method. The box culvert structures shall support an AASHTO

HL-93 loading with a maximum soil bearing pressure of 3,000 pounds per square foot. Precast units shall be connected using weld ties at 6-foot on center maximum or an approved equivalent.

Submittals

The Contractor shall submit two sets of shop drawings for culvert and shall be stamped and certified by a Civil Engineer licensed in the State of Washington for approval prior to Fabrication. Stamped Plans shall be provided to Lewis County within thirty working days of contract award. Plans shall include connection details, lifting details, assembly, and installation details, with two sets of supporting design calculations, to the Engineer in accordance with Sections 6-01.9 and 6-02.3(28)A. In addition to items 1 through 6 under the Section 6-02.3(28)A requirements for shop drawing content, the following shop drawing details shall also be submitted:

1. Erection and backfill procedure.

2. Complete, site specific, itemized bar list for all reinforcing steel.

Culvert Section Fabrication

The Manufacturer shall determine concrete wall/top/bottom thickness, split-box culvert dimensions/configuration and wingwall design to achieve interior culvert dimensions and required wingwall limits depicted in the Contract Plans. Plans depict estimated wall thicknesses, footing dimensions, etc. Note, proposed concrete split-box culvert base units shall incorporate interior side heights as depicted to allow placement of streambed material prior to placing top units.

The Contractor shall fabricate the precast elements of the precast reinforced concrete split box culvert (consisting of “U” shaped base elements with “lid” panels and staggered base and lid joints as shown in the Plans) in accordance with Section 6-02.3(28), and the shop drawings as approved by the Engineer.

Notification shall be given to Lewis County Public Works at least seven working days in advance of beginning fabrication of the precast elements for this project.

The Contractor shall pick, move, and store the precast reinforced concrete split box culvert elements in the cast position until the concrete reaches a minimum compressive strength equal to the final design strength specified in the shop drawing and design calculation submittal.

Prior to shipping, the precast reinforced concrete split box culvert fabricator shall furnish the Inspector a complete documentation package for each culvert component. The documentation package shall include the following information for each culvert component:

1. Concrete batch tickets

2. Concrete cylinder break results.

3. Material certifications.

4. Copies of all changes from the Plans and Specifications.

The following information shall be legibly and permanently marked on one inside face of each "U" shaped element by indentation, waterproof paint, or other means approved by the Engineer:

1. Box section span and rise dimensions, minimum and maximum design earth cover dimensions, and an AASHTO HL-93 loading.

2. Date of fabrication.

3. Name or trademark of the fabricator.

Culvert Erection
The Contractor shall erect and backfill precast reinforced concrete split box culverts in accordance with the erection sequence specified in the shop drawings as approved by the Engineer, and construction equipment shall not be placed on the structure until grout has attained a minimum compressive strength of 2,500 psi.

7-02.4 Measurement
Section 7-02.4 is supplemented with the following:

(April 2, 2007)
"Precast Reinf. Conc. Split Box Culvert" shall not be measured.

7-02.5 Payment
Section 7-02.5 is supplemented with the following:

(April 2, 2007)
"Precast Reinf. Conc. Split Box Culvert", lump sum.
The lump sum contract price for "Precast Reinf. Conc. Split Box Culvert". The 10' Span x 6' Rise x 115' Long, that include two 10', three-sided end pieces, shall be full pay for performing the work as specified, including designing, fabricating, delivery, erecting, and grouting the precast concrete elements for the culvert. See sheet 11 of 22 of the Contract Plans.

7-08 GENERAL PIPE INSTALLATION REQUIREMENTS

(******)
7-08.1 Description
Section 7-08.1 is supplemented with the following:

The Contractor shall fill abandoned 36 In. Concr. Pipe with CDF.

The Contractor shall construct a Cutoff wall with CDF.

(******)
7-08.2 Materials
Section 7-08.2 is supplemented with the following:

Controlled Density Fill (CDF)	Section 2-09.3(1)E

7-08.3 Construction Requirements
Section 7-08.3 is supplemented with the following:

(******)

7-08.3(4) Plugging Existing Pipe

Before the abandoned 36 In. Concr. Pipe is filled with CDF the Contractor shall submit to the Engineer a plan showing how to achieve 100% fill in the 36" x approx. 50L.F. culvert. (Approx. 14c.y.)

(******)

Cutoff Wall

Before the Cutoff Wall is contructed as per sheet 18 of 22 with CDF the Contractor shall submit to the Engineer a plan showing how to achieve construction of the wall as shown. (Approx. 5 c.y.)

7-08.4 Measurement

Section 7-08.4 is supplemented with the following:

(******)

"Plugging Existing Pipe" shall not be measured.

(******)

"Cutoff Wall" shall not be measured.

7-08.5 Payment

Section 7-08.5 is supplemented with the following:

(******)

"Plugging Existing Pipe", lump sum.

The lump sum contract price for "Plugging Existing Pipe" shall be full pay for performing the work as specified, including labor, material, equipment, and Controlled Density Fill (CDF).

(******)

"Cutoff Wall", lump sum.

The lump sum contract price for "Cutoff Wall" shall be full pay for performing the work as specified, including labor, material, equipment, and Controlled Density Fill (CDF).

DIVISION 8
MISCELLANEOUS CONSTRUCTION

8-01, EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.3 Construction Requirements

Section 8-01.3 is supplemented with the following:

8-01.3(2) Seeding, Fertilizing, and Mulching

8-01.3(2)B Seeding and Fertilizing

(******)

Section 8-01.3(2)B is supplemented with the following:

Seed Mix - Roadside: Grass seed, of the following composition, proportion, and quality shall be applied at the rate of ***80 *** pounds of pure live seed per acre on all areas requiring permanent roadside seeding within the project limits.

Kind and Variety of Seed in Mixture by Common Name and (Botanical name)	Pounds Pure Live Seed (PLS) Per Acre
Deschampsia elongata Slender Hairgrass	5.88
Elymus glaucus Blue Wildrye	39
Festuca idahonesis Idaho Fescue	12.74
Festuca ovina Sheep Fescue	4.21
Hordeum brachyantherum Meadow Barley	16.86
Koeler cristata Prairie Junegrass	1.31
Total Pounds PLS Per Acre	80

After seeding the Contractor shall be responsible to ensure a healthy stand of grass, otherwise, the Contractor shall, restore eroded areas, clean up materials, and reapply the seed, at no cost to the Contracting Agency.

Seeds shall be certified “Weed Free,” indicating there are no noxious or nuisance weeds in the seed.

8-01.3(2)D Mulching

(******)

Section 8-01.3(2)D is supplemented with the following:

Long-Term Wood Cellulose Fiber mulch shall be applied at a rate of 4,000 pounds per acre with all permanent seed mixes and shall conform to Section 9-14.4(2)A Long-Term Mulch of the Standard Specifications. No more than 2,000 pounds shall be applied in any single lift.

8-01.3(2)E Tackifiers

(******)

Section 8-01.3(2)E is supplemented with the following:

PAM shall be added to seed mixes at the time of hydraulic application. Application rates and methods shall conform to Section 8-01.3(2)E of the Standard Specifications.

8-01.5 Payment

(******)

Section 8-01.5 is supplemented with the following:

The unit contract price per Linear Foot (L.F.) for "High Visibility Silt Fence" shall be full pay for all cost to obtain, install, maintain, and remove the fence as specified. Once removed, the fencing shall remain the property of the Contractor.

The unit contract price per Acre for "Seeding and Mulching" shall be full pay for furnishing and installing the specified seed mix, mulch, and PAM, chemical weed and grass control/removal immediately prior to seeding to produce the specified surface conditions, scarification of compacted areas, minor filling of ruts, and all material and equipment necessary and incidental to the approved application of the specified seed.

8-02 ROADSIDE RESTORATION

8-02.1 Description

Section 8-02.1 is supplemented with the following:

(******)

The work described in this section, regardless of the nature or type of the materials encountered, includes supplying plant material, planting, installing plant protectors, installing weed barrier mats (at tree and shrub locations) and installing identification stakes as shown in the Contract Plans, marked in the field, and as directed by the Engineer. This work shall be accomplished in accordance with all environmental permits regulating the work.

8-02.3 Construction Requirements

Section 8-02.3 is supplemented with the following:

(******)

PLANTING MITIGATION CONSTRUCTION

The Contractor shall grade, plant, and otherwise construct mitigated planting areas as shown in the Contract Plans, marked in the field, and required by the Engineer. The planting of the enhancement sites shall be performed by a biologist, horticulturist, landscape architect or other similar professional. The credentials of the supervisor of this work shall be approved by the Engineer prior to beginning work on this item.

The work described in this section, regardless of the nature or type of the materials encountered, includes site preparation, seeding, planting, mulching, and installation of bark mulch rings as outlined Section 8-01 and 8.02 of these Special Provision.

Planting Zones

Planting zones shall be as follows:

See sheet 5 of 22 of the Contract Plans

Plant Establishment

(******)

The Contractor shall provide a one-year plant guarantee period from the date of final acceptance, in accordance with performance standards of local, state and federal permits. At the end of the one-year guarantee period, all dead and unacceptable plant materials shall be replaced by the Contractor at the Contractor's expense. The Contractor shall provide maintenance and monitoring efforts during the guarantee period.

All shrubs and trees shall be marked with a monitoring stake. Monitoring stakes shall be installed to a depth of 18 inches. Monitoring stakes shall be two to three feet above grade. The top six inches of the monitoring stakes shall be painted and color coded to species. The Contractor shall provide a color coding for stakes for each plant type to the Engineer, to aid in identification of dead and/or missing species

(******)
Plant Protectors shall be placed around all tree and shrub species to be planted with the exception of *Symphoricarpos albus* (snowberry). Plant protectors shall be made of solid flexible plastic and should be held in place with bamboo or wood stakes. Plant protectors shall be installed to a depth of three inches below the soil surface and extend nine to twelve inches above the surface. Stakes should extend a minimum two inches below and minimum two inches above the plant protector and be placed 2 to 3 inches away from the plant. Plant protectors shall be secured to stakes with a minimum of two zip ties or equivalent.

8-02.3(11) Bark or Wood Chip Mulch

Section 8-02.3(11) is supplemented with the following:

(******)
After hydro-seeding place Bark mulch rings not to exceed 3 foot (ft) diameter, a minimum depth of 3 inches. Pull bark mulch back 3 inches from base of plants.

Bark mulch shall meet the requirements of Section 9-14.4(3).

8-02.4 Measurement

Section 8-02.4 is supplemented with the following:

(******)
"Planting Mitigation Construction", no specific unit of measure will apply to this lump sum item. Items specified are approximate and are provided for estimating purposes only. The successful Contractor shall provide the Contracting Agency a lump sum breakdown of all items after bid award.

8-02.5 Payment

Section 8-02.5 is supplemented with the following:

"Planting Mitigation Construction"
The unit contract price per Lump Sum for "Planting Mitigation Construction" shall be full compensation for replacing soil to the Contract Plan details in the cut areas of the access roads, furnishing and installing all plants, Bark mulch rings - as described in Special Provisions Section 8-01 and Section 8-02. Material descriptions and construction requirements are as described in this Special Provision and Sections 8-01, 8-02 of the Special Provisions and as shown in the Contract Plans. The long term monitoring and maintenance (after one-year plant guarantee period) shall be completed by others.

8-11, GUARDRAIL

8-11.3 Construction Requirements

8-11.3(1) Beam Guardrail

Section 8-11.3(1) is supplemented with the following:

(April 5, 2010)

This project may contain a mixture of steel and wood posts. The bidder is advised that post selection shall be as detailed in the plans and these specifications.

8-15 RIPRAP

8-15.2 Materials

(******)

Section 8-15.1 is supplemented with the following:

Streambed Boulder, One-Man	9-03.11(3)
Streambed Sediment	9-03.11(1)
Streambed Cobbles	9-03.11(2)

8-15.3 Construction Requirements

(******)

Section 8-15.3 is supplemented with the following:

Streambed Boulder, One-Man

Set streambed boulders as directed by the Engineer during construction. The one man boulders are to be mixed in with the streambed and cascade mix as directed by the Engineer.

Streambed Mix

Streambed Mix (1 part 12 in. Streambed Cobbles , 2 parts 6 in. Streambed Cobbles and 1 part Streambed Sediment) shall be mixed at the rock pit or on-site per the ratios stipulated in the Plans and as directed by the Engineer. Place Streambed Mix in the stream channel and culvert as profiled and detailed in the Plans. Compact until firm and stable in 12-inch maximum lifts. Additional Streambed Sediment shall be placed on top of the Streambed Mix to provide stability to the streambed mix and be placed in area of voids and watered to create a uniform, non-porous bed.

Cascade Mix

Cascade Mix (3 parts 12 in. Streambed Cobbles , and 1 part Streambed Sediment) shall be mixed at the rock pit or on-site per the ratios stipulated in the Plans and as directed by the Engineer. Place Cascade Mix in the stream channel as profiled and detailed in the Plans. Compact until firm and stable in 12-inch maximum lifts. Additional Streambed Sediment shall be placed on top of the Cascade Mix to provide stability to the cascade mix and be placed in area of voids and watered to create a uniform, non-porous bed.

8-15.4 Measurement

(******)

Section 8-15.4 is supplemented with the following:

"Streambed Boulder, One-man" will be measured per Each. The provisions of Section 1-04.6 Variation in Estimated Quantities does not apply to this bid item.

"Streambed Mix" will be measured per Ton. The provisions of Section 1-04.6 Variation in Estimated Quantities does not apply to this bid item.

"Cascade Mix" will be measured per Ton. The provisions of Section 1-04.6 Variation in Estimated Quantities does not apply to this bid item.

8-15.5 Payment

(******)

Section 8-15.5 is supplemented with the following:

"Streambed Boulder, One-man", per each.
Payment for "Streambed Boulder, One-man", per each, shall be full pay for the work described in this Section including the supply and placement of the one man boulders within the Streambed and Cascade Mix.

"Streambed Mix" per Ton.
The Unit Price "Streambed Mix" shall be full pay for the Work described in this Section including excavation, backfilling, and compaction.

"Cascade Mix" per Ton.
The Unit Price "Cascade Mix" shall be full pay for the Work described in this Section including excavation, backfilling, and compaction.

8-23, TEMPORARY PAVEMENT MARKINGS

8-23.4 Measurement

(******)

Section 8-23.4 is revised to read:

No measurement will be made for Temporary Pavement Markings.

8-23.5 Payment

(******)

Section 8-23.5 is revised to read:

All costs for furnishing, installing, maintaining, and removing Temporary Pavement Markings shall be included in the cost of HMA Class 3/8" PG 58H-22 Fiber Reinforced.

DIVISION 9
MATERIALS

(******)

SECTION 9-02, BITUMINOUS MATERIALS

9-02.1 Asphalt Material, General

The second paragraph is revised to read:

The Asphalt Supplier of Performance Graded (PG) asphalt binder and emulsified asphalt shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 2 "Standard Practice for Asphalt Suppliers That Certify Performance Graded and Emulsified Asphalts". The Asphalt Supplier's QCP shall be submitted and receive the acceptance of the WSDOT State Materials Laboratory. Once accepted, any change to the QCP will require a new QCP to be submitted for acceptance. The Asphalt Supplier of PG asphalt binder and emulsified asphalt shall certify through the Bill of Lading that the PG asphalt binder or emulsified asphalt meets the Specification requirements of the Contract.

9-02.1(4) Performance Graded Asphalt Binder (PGAB)

This section's title is revised to read:

Performance Graded (PG) Asphalt Binder

The first paragraph is revised to read:

PG asphalt binder meeting the requirements of AASHTO M 332 Table 1 of the grades specified in the Contract shall be used in the production of HMA. For HMA with greater than 20 percent RAP by total weight of HMA, or any amount of RAS, the new asphalt binder, recycling agent and recovered asphalt (RAP and/or RAS) when blended in the proportions of the mix design shall meet the PG asphalt binder requirements of AASHTO M 332 Table 1 for the grade of asphalt binder specified by the Contract.

The second paragraph, including the table, is revised to read:

In addition to AASHTO M 332 Table 1 specification requirements, PG asphalt binders shall meet the following requirements:

		Additional Requirements by Performance Grade (PG) Asphalt Binders					
Property	**Test Method**	**PG58S-22**	**PG58H-22**	**PG58V-22**	**PG64S-28**	**PG64H-28**	**PG64V-28**
RTFO Residue: Average Percent Recovery @ 3.2 kPa	AASHTO T 350[1]			30% Min.	20% Min.	25% Min.	30% Min.
[1]Specimen conditioned in accordance with AASHTO T 240 – RTFO.							

The third paragraph is revised to read:

The RTFO J_{nrdiff} and the PAV direct tension specifications of AASHTO M 332 are not required.

This section is supplemented with the following:

If the asphalt binder verification sample test results fail to meet AASHTO Test Method T 350 "Standard Method of Test for Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)" for average percent recovery @ 3.2 kPa for the applicable grades of binder in accordance with Section 9-02.1(4), the Contracting Agency may

elect to test the sample using AASHTO Test Method T 301 “Standard Method of Test for Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer.”

When AASHTO T 301 is used, a minimum of 65% elastic recovery (ER) will be required when tested at 25°C ± 0.5°C.

9-03 AGGREGATES

(January 5, 2004)

9-03.8 (2) HMA Test Requirements
Section 9-03.8(2) is supplemented with the following:

ESAL's
The number of ESAL's for the design and acceptance of the HMA shall be *** 1.0 *** million.

9-03.8(7) HMA Tolerances and Adjustments
(******)
Delete item 1 and replace it with the following:

1. **Job Mix Formula Tolerances**. After the JMF is determined as required in 5-04.3(7)A, the constituents of the mixture at the time of acceptance shall conform to the following tolerances:

	Nonstatistical Evaluation	**Commercial Evaluation**
Aggregate, percent passing 1”, ¾”, ½”, and 3/8” sieves	±6%	±8%
U.S. No. 4 sieve	±6%	±8%
U.S. No. 8 sieve	±4%	±8%
U.S. No. 16 sieve	±4%	±8%
U.S. No. 30 sieve	±4%	±8%
U.S. No. 50 sieve	±4%	±8%
U.S. No. 100 sieve	±4%	±8%
U.S. No. 200 sieve	±2.0%	±3.0%
Asphalt Binder	±0.5%	±0.7%
VMA	1.5% below minimum value in 9-03.8(2)	
VFA	min. and max. as listed in 9-03.8(2)	
Va	2.5% minimum and 5.5% maximum	

These tolerance limits constitute the allowable limits as described in Section 1-06.2. The tolerance limit for aggregate shall not exceed the limits of the control points section, except the tolerance limits for sieves designated as 100% passing will be 99-100.

9-03.12(1) Gravel Backfill for Foundations

(******)
9-03.12(1)A Class A
Section 9-03.8(2) is supplemented with the following:

Gravel Backfill for Foundation Class A shall be Crushed Surfacing Base Course meeting the requirements of Section 9-03.9(3).

9-03.12(3) Gravel Backfill for Pipe Zone Bedding

Section 9-03.12(3) is supplemented with the following:

Gravel Backfill for Pipe Zone Bedding shall be Crushed Surfacing Base Course meeting the requirements of Section 9-03.9(3).

POWER EQUIPMENT

(******)

The successful bidder will be required to furnish the County a list of all equipment that they anticipate utilizing on this project.

The bidder's attention is directed to the attached Power Equipment Form, which the successful bidder will be required to complete and return with the contract documents. This information will enable hourly rental rates to be computed by the County, utilizing the "Rental Rate Blue Book for Construction Equipment". No payment for any force account work will be allowed until this form has been returned and accepted by the County.

E-VERIFY

(******)

"Effective June 21st, 2010, all contracts with a value of ≥ $100,000 shall require that the awarded contractor register with the Department of Homeland Security E-Verify program. Contractors shall have sixty days after the execution of the contract to register and enter into a Memorandum of Understanding (MOU) with the Department of Homeland Security (DHS) E-Verify program. After completing the MOU the contractor shall have an additional sixty days to provide a written record on the authorized employment status of their employees and those of any sub-contractor(s) currently assigned to the contract. Employees hired during the execution of the contract and after submission of the initial verification will be verified to the county within 30 days of hire, as reported from the E-Verify program. The contractor will continue to update the County on all corrective actions required and changes made during the performance of the contract."

BOND

(******)

The Bidder's special attention is directed to the attached bond form, which the successful bidder will be required to execute and furnish the County. **NO OTHER BOND FORMS WILL BE ACCEPTED.** The bond shall be for the full amount of the contract.

LEWIS COUNTY ESTIMATES AND PAYMENT POLICY

(******)

On or before the 5th day of each calendar month during the term of this contract, the Contracting Agency shall prepare monthly Progress Payments for work completed and material furnished. If the Contractor agrees, the Contractor will approve the Progress Payment and return the estimate to the Contracting Agency by the 15th day of that same calendar month. The Contracting Agency shall prepare a voucher based upon the approved Progress Payment and payment based thereon shall be due the Contractor near the 10th day of the next calendar month. Material Supply contracts involving delivery of prefabricated material or stockpile material only (no physical work on Contracting Agency

property) may be reimbursed via Contractor generated invoices upon written approval by the Engineer. Reimbursement by invoice shall not be subject to late charges listed on the Contractor's standard invoice form.

When the Contractor reports the work is completed he/she shall then notify the Contracting Agency. The Contracting Agency shall inspect the work and report any deficiencies to the Contractor. When the Contracting Agency is satisfied the work has been completed in accordance with all plans and specifications, the Contracting Agency shall then accept the work.

Upon completion of all work described in this Contract, the Contracting Agency shall prepare a Final Progress Payment and Final Contract Voucher for approval by the Contractor and processing for final payment. Release of the Contract Bond will be 60 days following Contracting Agency Final Acceptance of Contract, provided the conditions of Section 1-03.4 and Section1-07.2 of these Special Provisions have been satisfied.

APPENDICES

(July 12, 1999)
The following appendices are attached and made a part of this contract:

****** APPENDIX A:
Washington State Prevailing Wage Rates
Wage Rate Supplement
Wage Rate Benefit Code Key

APPENDIX B:
Bid Proposal Documents

APPENDIX C:
Contract Documents

APPENDIX D:
Permit Documents

APPENDIX E:
Standard Plans
Contract Plans ******

(FEBRUARY 5, 2020)
STANDARD PLANS

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01 transmitted under Publications Transmittal No. PT 16-048, effective September 3, 2019 is made a part of this contract.

The Standard Plans are revised as follows:

A-50.10
Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10

A-50.20
Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10

A-50.30
Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.1

B-10.60
DELETED

B-82.20
DELETED

B-90.40
Valve Detail – DELETED

C-1
Delete Note 1.

Revise Note 2 to read “Remove all rail washers, also called “Snow Load Rail Washers”, when encountered during raising beam guardrail work and the guardrail raising work requires removal of the rail.

Re-number all notes.

C-4b
DELETED

C-4e
DELETED

C-8a
Delete “Section A-A, Type 4 Detail

C-20.11
Delete Notes 1 & 2. Re-Number all notes.
Delete “ Snow Load Post Washer” and “Snow Load Rail Washer” details.

C-20.19
DELETED

C-22.14
DELETED

C-22.16
Note 3, formula, was: “Elevation G = (Elevation S – D x (0.1) + 31” is revised to read: “Elevation G = (Elevation S – D x (0.1) + 31/12”

C-22.45
For the SOFTSTOP (TL-2) elevation view detail, the callout “SOFTSTOP (TL-2) SYSTEM LENGTH = 38’ – 4 1/2"” is revised to read “SOFTSTOP (TL-2) SYSTEM LENGTH = 38’ – 3 1/2"”.

C-40.14
DELETED

C-60.10
Sheet 1, Side Elevation: The bottom set of ① - #4 horizontal rebar (2x) located at the base of the barrier is repositioned to be aligned with the bottom of ② - #4 stirrup bars to match the bar positioning shown on Sheet 1, Section A.

Sheet 1, Reinforcing Steel Bending Diagram, ③ - Pin Slot Bar detail: Add the following callout to the detail, “HOT DIP GALVANIZE AFTER FABRICATION (ASTM A123 OR AASHTO M 111)”.

Sheet 2, ANCHORING PIN ASSEMBLY DETAIL: The first line of the description under the title was “1 1/2” DIAMETER (ASTM A36), COLD ROLL” is now changed to “1 1/2” DIAMETER (ASTM A36), HOT ROLL”.

C-70.10
Sheet 1, Note 1 was - “1. PERMANENT INSTALLATION requirements: Embed barrier 3” (in) minimum; …” is revised to read: “1. Installation requirements: Embed barrier 3” (in) minimum in asphalt or concrete; embed barrier 10” (in) minimum in soil; …”

Sheet 1, existing Notes 2 and 4 are deleted. Existing Note 3 is renumbered to Note 2.

Sheet 1, add new Note 3, “3. See Sheet 2 for barrier with a 2’-10” reveal installed in asphalt or concrete. See Sheet 3 for barrier with a 3’-6” reveal installed in asphalt or concrete.”

Sheet 1, Elevation: The dimension from the barrier end to the barrier lifting slot was “3’ – 4” (TYP)” is now changed to “4’ – 8” (TYP)”, and the barrier lifting slot dimension was “5’ – 0” (TYP)” is now changed to “3’ – 0” (TYP)”.

Sheet 2, the detail titled “3’ – 6” BARRIER FOR USE WITH A 0” (IN) TO 5” (IN) MAX. GRADE SEPARATION” has the following changes:
1. The detail title is changed to “3’ – 6” BARRIER FOR USE WITH A 0” (IN) TO 4” (IN) MAX. GRADE SEPARATION”.
2. The callout “GRADE SEPARATION--5” MAX.” is changed to “GRADE SEPARATION--4” MAX.”

C-75.10

Note 2 is deleted. Renumber subsequent notes.

C-75.20
Note 2 is deleted. Renumber subsequent notes.

C-75.30
Note 2 is deleted. Renumber subsequent notes.

C-85.11
Add new Note 3 “3. The intended use of this plan is for placing concrete barrier in front of bridge piers on bridge retrofit projects only. Contact the HQ Bridge traffic barrier specialist before using this barrier placement plan for projects involving new or reconstructed bridges.”

C-85.14
DELETED

C-90.10
DELETED

D-10.10
Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.15
Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.30
Wall Type 5 may be used in all cases.

D-10.35
Wall Type 6 may be used in all cases.

D-10.40
Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.45
Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the revisions stated in the 11/3/15 Bridge Design memorandum.

D-15.10

STD Plans D-15 series “Traffic Barrier Details for Reinforced Concrete Retaining Walls” are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.20
STD Plans D-15 series “Traffic Barrier Details for Reinforced Concrete Retaining Walls” are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.30
STD Plans D-15 series “Traffic Barrier Details for Reinforced Concrete Retaining Walls” are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

F-10.12
Section Title, was – “Depressed Curb Section” is revised to read: “Depressed Curb and Gutter Section”

F-10.40
“EXTRUDED CURB AT CUT SLOPE”, Section detail - Deleted

F-10.42
DELETE – “Extruded Curb at Cut Slope” View

G-25.10
Key Note 3, second sentence, was – “For single-post installations, divide the (#2w/diamond shape symbol) post MAX. XYZ in half.” Is revised to read: “For single-post installations, divide the two-post MAX. XYZ in half.”

G-60.10
DELETED

G-60.20
DELETED

G-60.30
DELETED

G-70.10
DELETED

G-70.20
DELETED

H-70.20
Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is revised to H-70.10

J-10.21
Note 18, was – “When service cabinet is installed within right of way fence, see Standard Plan J-10.22 for details.” Is revised to read; “When service cabinet is installed within right of way

fence, or the meter base is mounted on the exterior of the cabinet, see Standard Plan J-10.22 for details."

J-10.22
Key Note 1, was – "Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305." Is revised to read; "Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305. When the utility requires meter base to be mounted on the side or back of the service cabinet, the meter base enclosure shall be fabricated from type 304 stainless steel."
Key Note 4, "Test with (SPDT Snap Action, Positive close 15 Amp – 120/277 volt "T" rated). Is revised to read: "Test Switch (SPDT snap action, positive close 15 amp – 120/277 volt "T" rated)."
Key Note 14, was – "Hinged dead front with ¼ turn fasteners or slide latch." Is revised to read; "Hinged dead front with ¼ turn fasteners or slide latch. ~ Dead front panel bolts shall not extend into the vertical limits of the breaker array(s)."
Key Note 15, was – "Cabinet Main Bonding Jumper. Buss shall be 4 lug tinned copper. See Cabinet Main bonding Jumper detail, Standard Plan J-3b." is revised to read; "Cabinet Main Bonding Jumper Assembly ~ Buss shall be 4 lug tinned copper ~ See Standard Plan J-10.20 for Cabinet Main Bonding Jumper Assembly details."
Note 1, was – "…socket box mounting detail, see Standard Plan J-3b." is revised to read to read: "…socket box mounting detail, see Standard Plan J-10.20."
Note 6, was – "…See door hinge detail, Standard Plan J-3b." is revised to read: "…See door hinge detail, Standard Plan J-10.20."

J-20.26
Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton post."

J-20.16
View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10
Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – "ANCHOR BOLTS ~ ¾" (IN) x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO READ: "ANCHOR BOLTS ~ ¾" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY"
Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR.. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.
Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.
Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.
Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2

½" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.
Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts (see Note 1)"
Detail F, callout, "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is revised to read; "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"

J-21.15
Partial View, callout, was – LOCK NIPPLE ~ 1 ½" DIAM., is revised to read; CHASE NIPPLE ~ 1 ½" (IN) DIAM.

J-21.16
Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE

J-22.15
Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0"
(2x) Detail A, callout, was – LOCK NIPPLE ~ 1 ½" DIAM. is revised to read; CHASE NIPPLE ~ 1 ½" (IN) DIAM.

J-28.24
Case E and Case F Section View dimension callout, "3' – 0" MIN. FOR BEAM GUARDRAIL, 4' – 0" MIN. FOR CONC. BARRIER TYPE 2" is revised to read, "5' – 0" MIN. FOR BEAM GUARDRAIL, 8' – 0" MIN. FOR UNANCHORED TYPE F CONC. BARRIER, 4' – 0" MIN. FOR ANCHORED TYPE F CONC. BARRIER".

J-40.10
Sheet 2 of 2, Detail F, callout, "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 12" S. S. FLAT WASHER" is revised to read; "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 1/2" (IN) S. S. FLAT WASHER"

J-75.20
Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel Bands", add the following to the end of the note: "Alternate: Stainless steel cable with stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel bands and associated hardware."

J-81.10
Power Distribution Block Diagram, lower left corner, Sheet 1 of 3; Switch Pack 2; circuit 623 (T4-5) [middle ckt] is revised to read; circuit **622 (T4-5)**.

K-80.10
SIGN INSTALLATION (BEHIND TRAFFIC BARRIER) detail dimension callout, "3' MIN." is revised to read, "5' MIN.".

K-80.30
DELETED

K-80.35
Add New Note 1 – "1. The intended use of this plan is for the temporary installation of Type 2 concrete barrier (See Standard Plan C-8) on cement concrete pavement, bridge decks, or hot

mix asphalt pavement, and Type F concrete barrier on cement concrete pavement or bridge decks.

Re-number all notes.

The TYPE 1 ANCHOR detail description “TEMPORARY INSTALLATION OF PRECAST CONC. BARRIER TYPE 2 (STD. PLAN C-8) AND TEMPORARY CONC. BARRIER (F-SHAPE) (STD. PLAN K-80.30) ON CEMENT CONC. PAVEMENT OR BRIDGE DECK” is revised to read, “TEMPORARY INSTALLATION OF PRECAST CONC. BARRIER TYPE F (STD. PLAN C-60.10) OR PRECAST CONC. BARRIER TYPE 2 (STD. PLAN C-8) ON CEMENT CONC. PAVEMENT OR BRIDGE DECK.”

The TYPE 3 ANCHOR detail description “TEMPORARY INSTALLATION OF PRECAST CONC. BARRIER TYPE 2 (STD. PLAN C-8) AND TEMPORARY CONC. BARRIER (F-SHAPE) (STD. PLAN K-80.30) ON HOT MIX ASPHALT PAVEMENT” is revised to read, “TEMPORARY INSTALLATION OF PRECAST CONC. BARRIER TYPE 2 (STD. PLAN C-8) ON HOT MIX ASPHALT PAVEMENT.”

K-80.37
Revise Note 1 to read:“1. The intended use of this plan is for the temporary installation of Type F NARROW BASE concrete barrier (See Standard Plan C-60.10) or Type 4 (Type 2 Narrow Base – See Std. Plan C-8a) Concrete Barrier on cement concrete pavement, bridge decks.”

Replace all callouts stating “NARROW BASE, ALTERNATIVE TEMPORARY CONCRETE BARRIER SEGMENT” with “Type F NARROW BASE or Type 4 (Type 2 Narrow Base) concrete barrier segment.”

M-3.50
Double-Left Turn Channelization (with Right Turn Pocket) view, dimension, upper left corner, “taper” dimension; callout – was “40’ if Posted Speed is 40 MPH or less 100’ if Posted Speed is more than 40 MPH” is revised to read; “See Contract”

M-5.10
Right-Turn Channelization view, dimension, upper right corner, “taper” dimension; callout – was “50’ MIN.” is revised to read; “See Contract”

M-12.10
Add Note 5. “Check with Region Traffic Office for RPM and Guidepost placements.”

M-24.50
DELETED

The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

A-10.10-00.....8/7/07	A-40.00-00.....8/11/09	A-50.30-00…....11/17/08
A-10.20-00.....10/5/07	A-40.10-04.....7/31/19	A-50.40-00…....11/17/08
A-10.30-00.....10/5/07	A-40.15-00.....8/11/09	A-60.10-03.....12/23/14
A-20.10-00.....8/31/07	A-40.20-04.....1/18/17	A-60.20-03.....12/23/14

A-30.10-00.....11/8/07
A-30.30-01.....6/16/11
A-30.35-00.....10/12/07
A-40.50-02.....12/23/14
A-50.10-00…....11/17/08
A-50.20-01…....9/22/09
A-60.30-01.....6/28/18
A-60.40-00.....8/31/07

B-5.20-02.....1/26/17
B-5.40-02.....1/26/17
B-5.60-02.....1/26/17
B-10.20-02.....3/2/18
B-10.40-01.....1/26/17
B-10.70-00……1/26/17
B-15.20-01.....2/7/12
B-15.40-01.....2/7/12
B-15.60-02.....1/26/17
B-20.20-02.....3/16/12
B-20.40-04.....2/27/18
B-20.60-03.....3/15/12
B-25.20-02.....2/27/18
B-25.60-02.....2/27/18
B-30.10-03.....2/27/18
B-30.15-00……..2/27/18
B-30.20-04.....2/27/18
B-30.30-03.....2/27/18
B-30.40-03.....2/27/18
B-30.50-03.....2/27/18
B-30.70-04.....2/27/18
B-30.80-01.....2/27/18
B-30.90-02.....1/26/17
B-35.20-00.....6/8/06
B-35.40-00.....6/8/06
B-40.20-00.....6/1/06
B-40.40-02.....1/26/17
B-45.20-01.....7/11/17
B-45.40-01.....7/21/17
B-50.20-00.....6/1/06
B-55.20-02.....2/27/18
B-60.20-01.....6/28/18
B-60.40-01.....2/27/18
B-65.20-01.....4/26/12
B-65.40-00.....6/1/06
B-70.20-00.....6/1/06
B-70.60-01.....1/26/17
B-75.20-02.....2/27/18
B-75.50-01.....6/10/08
B-75.60-00.....6/8/06
B-80.20-00.....6/8/06
B-80.40-00.....6/1/06
B-85.10-01.....6/10/08
B-85.20-00.....6/1/06
B-85.30-00.....6/1/06
B-85.40-00.....6/8/06
B-85.50-01.....6/10/08
B-90.10-00…....6/8/06
B-90.20-00.....6/8/06
B-90.30-00.....6/8/06
B-90.40-01.....1/26/17
B-90.50-00.....6/8/06
B-95.20-01.....2/3/09
B-95.40-01.....6/28/18

C-1.....6/28/18
C-1a.....7/14/15
C-1b.....8/12/19
C-1d.....10/31/03
C-2c.....8/12/19
C-4f.....8/12/19
C-6a.....10/14/09
C-7.....6/16/11
C-7a.....6/16/11
C-8.....2/10/09
C-8a.....7/25/97
C-8b.....2/29/16
C-8e.....2/21/07
C-8f.....6/30/04
C-16a.....7/21/17
C-20.10-05.....8/12/19
C-20.11-00……..7/21/17
C-20.14-04.....8/12/19
C-20.15-02.....6/11/14
C-20.18-03.....8/12/19
C-20.19-03.....8/12/19
C-20.40-07.....8/12/19
C-20.41-02.....8/12/19
C-20.42-05.....7/14/15
C-20.45.02.....8/12/19
C-22.16-06.....7/21/17
C-22.40-07.....8/12/19
C-22.45-04.....8/12/19
C-23.60-04.....7/21/17
C.24.10-02.....8/12/19
C-25.20-06.....7/14/15
C-25.22-05.....7/14/15
C-25.26-04.....8/12/19
C-25.30-00…….6/28/18
C-25.80-05.....8/12/19
C-40.16-02.....7/2/12
C-40.18-03.....7/21/17
C-60.10-00…….8/22/19
C-70.10-01.....6/17/14
C-75.10-01.....6/11/14
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C-75.30-01.....6/11/14
C-80.10-01.....6/11/14
C-80.20-01.....6/11/14
C-80.30-01.....6/11/14
C-80.40-01.....6/11/14
C-80.50-00.....4/8/12
C-85.10-00.....4/8/12
C-85.11-00.....4/8/12
C-85.14-01.....6/11/14
C-85.15-01.....6/30/14
C-85.16-01.....6/17/14
C-85-18-01.....6/11/14
C-85.20-01.....6/11/14

D-2.04-00.....11/10/05
D-2.06-01.....1/6/09
D-2.08-00.....11/10/05
D-2.14-00.....11/10/05
D-2.16-00.....11/10/05
D-2.18-00.....11/10/05
D-2.20-00.....11/10/05
D-2.32-00.....11/10/05
D-2.48-00.....11/10/05
D-2.64-01.....1/6/09
D-2.66-00.....11/10/05
D-2.68-00.....11/10/05
D-2.80-00.....11/10/05
D-2.82-00.....11/10/05
D-2.84-00.....11/10/05
D-2.86-00.....11/10/05
D-3.17-02……5/9/16
D-4.....12/11/98
D-6.....6/19/98
D-10.10-01.....12/2/08
D-10.15-01.....12/2/08
D-10.20-01.....8/7/19
D-10.25-01.....8/7/19
D-10.30-00.....7/8/08

D-2.34-01.....1/6/09
D-2.36-03.....6/11/14
D-2.42-00.....11/10/05
D-2.44-00.....11/10/05
D-2.60-00.....11/10/05
D-2.62-00.....11/10/05
D-2.46-01.....6/11/14
D-2.88-00.....11/10/05
D-2.92-00.....11/10/05
D-3.09-00.....5/17/12
D-3.10-01……5/29/13
D-3.11-03……6/11/14
D-3.15-02……6/10/13
D-3.16-02……5/29/13
D-10.35-00.....7/8/08
D-10.40-01.....12/2/08
D-10.45-01.....12/2/08

E-1.....2/21/07
E-2.....5/29/98
E-4.....8/27/03
E-4a.....8/27/03

F-10.12-03.....6/11/14
F-10.16-00.....12/20/06
F-10.18-01.....7/11/17
F-10.40-03.....6/29/16
F-10.42-00.....1/23/07
F-10.62-02.....4/22/14
F-10.64-03.....4/22/14
F-30.10-03.....6/11/14
F-40.12-03.....6/29/16
F-40.14-03.....6/29/16
F-40.15-03.....6/29/16
F-40.16-03.....6/29/16
F-45.10-02.....7/15/16
F-80.10-04.....7/15/16

G-10.10-00.....9/20/07
G-20.10-02.....6/23/15
G-22.10-04.....6/28/18
G-24.10-00.....11/8/07
G-24.20-01.....2/7/12
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G-24.40-07.....6/28/18
G-24.50-05.....8/7/19
G-24.60-05.....6/28/18
G-25.10-04.....6/10/13
G-26.10-00……7/31/19
G-30.10-04.....6/23/15
G-50.10-03.....6/28/18
G-90.10-03……7/11/17
G-90.11-00……4/28/16
G-90.20-05……7/11/17
G-90.30-04……7/11/17
G-90.40-02……4/28/16
G-95.10-02.....6/28/18
G-95.20-03.....6/28/18
G-95.30-03.....6/28/18

H-10.10-00.....7/3/08
H-10.15-00.....7/3/08
H-30.10-00.....10/12/07
H-32.10-00.....9/20/07
H-60.10-01.....7/3/08
H-60.20-01.....7/3/08
H-70.10-01.....2/7/12
H-70.20-01.....2/16/12
H-70.30-02.....2/7/12

I-10.10-01.....8/11/09
I-30.10-02.....3/22/13
I-30.15-02.....3/22/13
I-30.16-01.....7/11/19
I-30.17-01.....6/12/19
I-30.20-00.....9/20/07
I-30.30-02.....6/12/19
I-30.40-02.....6/12/19
I-30.60-02.....6/12/19
I-40.10-00.....9/20/07
I-40.20-00.....9/20/07
I-50.20-01.....6/10/13
I-60.10-01.....6/10/13
I-60.20-01.....6/10/13
I-80.10-02.....7/15/16

J-10.....7/18/97
J-10.10-03……6/3/15
J-10.15-01.....6/11/14
J-10.16-00……6/3/15
J-10.17-00……6/3/15
J-10.18-00……6/3/15
J-10.20-02……7/31/19
J-10.21-00……6/3/15
J-10.22-00.....5/29/13
J-10.25-00……7/11/17
J-12.15-00……6/28/18
J-12.16-00……6/28/18
J-15.10-01.....6/11/14
J-28.40-02.....6/11/14
J-28.42-01.....6/11/14
J-28.43-01.....6/28/18
J-28.45-03.....7/21/16
J-28.50-03.....7/21/16
J-28.60-02.....7/21/16
J-28.70-03.....7/21/17
J-29.10-01.....7/21/16
J-29.15-01.....7/21/16
J-29.16-02.....7/21/16
J-30.10-00……6/18/15
J-40.05-00……7/21/16
J-40.10-04……4/28/16
J-60.13-00……6/16/10
J-60.14-01……7/31/19
J-75.10-02……7/10/15
J-75.20-01……7/10/15
J-75.30-02……7/10/15
J-75.40-02……6/1/16
J-75.41-01……6/29/16
J-75.45-02……6/1/16
J-80.10-00……6/28/18
J-80.15-00……6/28/18
J-81.10-00……6/28/18
J-86.10-00……6/28/18
J-90.10-03……6/28/18

J-15.15-02……7/10/15
J-20.10-04.....7/31/19
J-20.11-03.....7/31/19
J-20.15-03.....6/30/14
J-20.16-02.....6/30/14
J-20.20-02.....5/20/13
J-20.26-01.....7/12/12
J-21.10-04.....6/30/14
J-21.15-01.....6/10/13
J-21.16-01.....6/10/13
J-21.17-01.....6/10/13
J-21.20-01.....6/10/13
J-22.15-02.....7/10/15
J-22.16-03.....7/10/15
J-26.10-03…..7/21/16
J-26.15-01…..5/17/12
J-26.20-01…..6/28/18
J-27.10-01…..7/21/16
J-27.15-00…..3/15/12
J-28.10-02.....8/7/19
J-28.22-00.....8/07/07
J-28.24-01.....6/3/15
J-28.26-01.....12/02/08
J-28.30-03.....6/11/14
J-40.20-03…...4/28/16
J-40.30-04……4/28/16
J-40.35-01……5/29/13
J-40.36-02……7/21/17
J-40.37-02……7/21/17
J-40.38-01.....5/20/13
J-40.39-00……5/20/13
J-40.40-02……7/31/19
J-45.36-00……7/21/17
J-50.05-00……7/21/17
J-50.10-01…….7/31/19
J-50.11-02…….7/31/19
J-50.12-02…….8/7/19
J-50.13-00…….8/22/19
J-50.15-01…….7/21/17
J-50.16-01…….3/22/13
J-50.18-00…….8/7/19
J-50.19-00…….8/7/19
J-50.20-00…….6/3/11
J-50.25-00…….6/3/11
J-50.30-00…….6/3/11
J-60.05-01…….7/21/16
J-60.11-00…....5/20/13
J-60.12-00…....5/20/13
J-90.20-03…….6/28/18
J-90.21-02……6/28/18
J-90.50-00……6/28/18

K-70.20-01.....6/1/16
K-80.10-01.....6/1/16
K-80.20-00.....12/20/06
K-80.35-00.....2/21/07
K-80.37-00.....2/21/07

L-10.10-02.....6/21/12
L-20.10-03.....7/14/15
L-30.10-02.....6/11/14
L-40.10-02.....6/21/12
L-40.15-01.....6/16/11
L-40.20-02.....6/21/12
L-70.10-01.....5/21/08
L-70.20-01.....5/21/08

M-1.20-03.....6/24/14
M-1.40-02.....6/3/11
M-1.60-02.....6/3/11
M-1.80-03.....6/3/11
M-2.20-03.....7/10/15
M-2.21-00……7/10/15
M-3.10-03.....6/3/11
M-3.20-02.....6/3/11
M-3.30-03.....6/3/11
M-3.40-03.....6/3/11
M-3.50-02.....6/3/11
M-5.10-02.....6/3/11
M-7.50-01.....1/30/07
M-9.50-02.....6/24/14
M-9.60-00……..2/10/09
M-11.10-03.....8/7/19
M-12.10-01……6/28/18
M-15.10-01.....2/6/07
M-17.10-02.....7/3/08
M-20.10-02.....6/3/11
M-20.20-02.....4/20/15
M-20.30-04.....2/29/16
M-20.40-03.....6/24/14
M-20.50-02.....6/3/11
M-24.20-02.....4/20/15
M-24.40-02.....4/20/15
M-24.60-04.....6/24/14
M-24.65-00……7/11/17
M-24.66-00……7/11/17
M-40.10-03.....6/24/14
M-40.20-00...10/12/07
M-40.30-01.....7/11/17
M-40.40-00.....9/20/07
M-40.50-00.....9/20/07
M-40.60-00.....9/20/07
M-60.10-01.....6/3/11
M-60.20-02.....6/27/11
M-65.10-02.....5/11/11
M-80.10-01.....6/3/11
M-80.20-00.....6/10/08
M-80.30-00.....6/10/08

APPENDIX A

WASHINGTON STATE PREVAILING WAGE RATES

INCLUDING:

State Wage Rates

Wage Rate Supplements

Wage Rate Benefit Codes

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 3/16/2020

County	Trade	Job Classification	Wage	Holiday	Overtime	Note	*Risk Class
Lewis	Asbestos Abatement Workers	Journey Level	$50.86	5D	1H		View
Lewis	Boilermakers	Journey Level	$69.29	5N	1C		View
Lewis	Brick Mason	Journey Level	$58.82	5A	1M		View
Lewis	Brick Mason	Pointer-Caulker-Cleaner	$58.82	5A	1M		View
Lewis	Building Service Employees	Janitor	$13.50		1		View
Lewis	Building Service Employees	Shampooer	$13.50		1		View
Lewis	Building Service Employees	Waxer	$13.50		1		View
Lewis	Building Service Employees	Window Cleaner	$13.50		1		View
Lewis	Cabinet Makers (In Shop)	Journey Level	$23.17		1		View
Lewis	Carpenters	Acoustical Worker	$62.44	7A	4C		View
Lewis	Carpenters	Carpenter	$62.44	7A	4C		View
Lewis	Carpenters	Carpenters on Stationary Tools	$62.57	7A	4C		View
Lewis	Carpenters	Creosoted Material	$62.54	7A	4C		View
Lewis	Carpenters	Floor Finisher	$62.44	7A	4C		View
Lewis	Carpenters	Floor Layer	$62.44	7A	4C		View
Lewis	Carpenters	Scaffold Erector	$62.44	7A	4C		View
Lewis	Cement Masons	Application of all Composition Mastic	$62.97	7A	4U		View
Lewis	Cement Masons	Application of all Epoxy Material	$62.47	7A	4U		View
Lewis	Cement Masons	Application of all Plastic Material	$62.97	7A	4U		View
Lewis	Cement Masons	Application of Sealing Compound	$62.47	7A	4U		View
Lewis	Cement Masons	Application of Underlayment	$62.97	7A	4U		View
Lewis	Cement Masons	Building General	$62.47	7A	4U		View

Lewis	Cement Masons	Composition or Kalman Floors	$62.97	7A	4U		View
Lewis	Cement Masons	Concrete Paving	$62.47	7A	4U		View
Lewis	Cement Masons	Curb & Gutter Machine	$62.97	7A	4U		View
Lewis	Cement Masons	Curb & Gutter, Sidewalks	$62.47	7A	4U		View
Lewis	Cement Masons	Curing Concrete	$62.47	7A	4U		View
Lewis	Cement Masons	Finish Colored Concrete	$62.97	7A	4U		View
Lewis	Cement Masons	Floor Grinding	$62.97	7A	4U		View
Lewis	Cement Masons	Floor Grinding/Polisher	$62.47	7A	4U		View
Lewis	Cement Masons	Green Concrete Saw, self-powered	$62.97	7A	4U		View
Lewis	Cement Masons	Grouting of all Plates	$62.47	7A	4U		View
Lewis	Cement Masons	Grouting of all Tilt-up Panels	$62.47	7A	4U		View
Lewis	Cement Masons	Gunite Nozzleman	$62.97	7A	4U		View
Lewis	Cement Masons	Hand Powered Grinder	$62.97	7A	4U		View
Lewis	Cement Masons	Journey Level	$62.47	7A	4U		View
Lewis	Cement Masons	Patching Concrete	$62.47	7A	4U		View
Lewis	Cement Masons	Pneumatic Power Tools	$62.97	7A	4U		View
Lewis	Cement Masons	Power Chipping & Brushing	$62.97	7A	4U		View
Lewis	Cement Masons	Sand Blasting Architectural Finish	$62.97	7A	4U		View
Lewis	Cement Masons	Screed & Rodding Machine	$62.97	7A	4U		View
Lewis	Cement Masons	Spackling or Skim Coat Concrete	$62.47	7A	4U		View
Lewis	Cement Masons	Troweling Machine Operator	$62.97	7A	4U		View
Lewis	Cement Masons	Troweling Machine Operator on Colored Slabs	$62.97	7A	4U		View
Lewis	Cement Masons	Tunnel Workers	$62.97	7A	4U		View
Lewis	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	$116.20	7A	4C		View
Lewis	Divers & Tenders	Dive Supervisor/Master	$79.23	7A	4C		View
Lewis	Divers & Tenders	Diver	$116.20	7A	4C	8V	View
Lewis	Divers & Tenders	Diver On Standby	$74.23	7A	4C		View
Lewis	Divers & Tenders	Diver Tender	$67.31	7A	4C		View
Lewis	Divers & Tenders	Manifold Operator	$67.31	7A	4C		View
Lewis	Divers & Tenders	Manifold Operator Mixed Gas	$72.31	7A	4C		View
Lewis	Divers & Tenders	Remote Operated Vehicle Operator/Technician	$67.31	7A	4C		View
Lewis	Divers & Tenders	Remote Operated Vehicle Tender	$62.69	7A	4C		View
Lewis	Dredge Workers	Assistant Engineer	$56.44	5D	3F		View
Lewis	Dredge Workers	Assistant Mate (Deckhand)	$56.00	5D	3F		View
Lewis	Dredge Workers	Boatmen	$56.44	5D	3F		View
Lewis	Dredge Workers	Engineer Welder	$57.51	5D	3F		View
Lewis	Dredge Workers	Leverman, Hydraulic	$58.67	5D	3F		View

Lewis	Dredge Workers	Mates	$56.44	5D	3F		View
Lewis	Dredge Workers	Oiler	$56.00	5D	3F		View
Lewis	Drywall Applicator	Journey Level	$62.44	5D	1H		View
Lewis	Drywall Tapers	Journey Level	$62.81	5P	1E		View
Lewis	Electrical Fixture Maintenance Workers	Journey Level	$13.50		1		View
Lewis	Electricians - Inside	Cable Splicer	$74.69	5C	1G		View
Lewis	Electricians - Inside	Journey Level	$69.96	5C	1G		View
Lewis	Electricians - Inside	Lead Covered Cable Splicer	$79.41	5C	1G		View
Lewis	Electricians - Inside	Welder	$74.69	5C	1G		View
Lewis	Electricians - Motor Shop	Craftsman	$15.37		1		View
Lewis	Electricians - Motor Shop	Journey Level	$14.69		1		View
Lewis	Electricians - Powerline Construction	Cable Splicer	$82.39	5A	4D		View
Lewis	Electricians - Powerline Construction	Certified Line Welder	$75.64	5A	4D		View
Lewis	Electricians - Powerline Construction	Groundperson	$49.17	5A	4D		View
Lewis	Electricians - Powerline Construction	Heavy Line Equipment Operator	$75.64	5A	4D		View
Lewis	Electricians - Powerline Construction	Journey Level Lineperson	$75.64	5A	4D		View
Lewis	Electricians - Powerline Construction	Line Equipment Operator	$64.54	5A	4D		View
Lewis	Electricians - Powerline Construction	Meter Installer	$49.17	5A	4D	8W	View
Lewis	Electricians - Powerline Construction	Pole Sprayer	$75.64	5A	4D		View
Lewis	Electricians - Powerline Construction	Powderperson	$56.49	5A	4D		View
Lewis	Electronic Technicians	Journey Level	$44.70	6Z	1B		View
Lewis	Elevator Constructors	Mechanic	$97.31	7D	4A		View
Lewis	Elevator Constructors	Mechanic In Charge	$105.06	7D	4A		View
Lewis	Fabricated Precast Concrete Products	Journey Level	$13.50		1		View
Lewis	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$13.50		1		View
Lewis	Fence Erectors	Fence Erector	$43.11	7A	4V	8Y	View
Lewis	Fence Erectors	Fence Laborer	$43.11	7A	4V	8Y	View
Lewis	Flaggers	Journey Level	$43.11	7A	4V	8Y	View
Lewis	Glaziers	Journey Level	$66.51	7L	1Y		View
Lewis	Heat & Frost Insulators And Asbestos Workers	Journeyman	$76.61	5J	4H		View
Lewis	Heating Equipment Mechanics	Journey Level	$85.88	7F	1E		View
Lewis	Hod Carriers & Mason Tenders	Journey Level	$52.44	7A	4V	8Y	View
Lewis	Industrial Power Vacuum Cleaner	Journey Level	$13.50		1		View

Lewis	Inland Boatmen	Boat Operator	$61.41	5B	1K		View
Lewis	Inland Boatmen	Cook	$56.48	5B	1K		View
Lewis	Inland Boatmen	Deckhand	$57.48	5B	1K		View
Lewis	Inland Boatmen	Deckhand Engineer	$58.81	5B	1K		View
Lewis	Inland Boatmen	Launch Operator	$58.89	5B	1K		View
Lewis	Inland Boatmen	Mate	$57.31	5B	1K		View
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$13.50		1		View
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$13.50		1		View
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$13.50		1		View
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$13.50		1		View
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$13.50		1		View
Lewis	Insulation Applicators	Journey Level	$62.44	7A	4C		View
Lewis	Ironworkers	Journeyman	$73.73	7N	1O		View
Lewis	Laborers	Air, Gas Or Electric Vibrating Screed	$50.86	7A	4V	8Y	View
Lewis	Laborers	Airtrac Drill Operator	$52.44	7A	4V	8Y	View
Lewis	Laborers	Ballast Regular Machine	$50.86	7A	4V	8Y	View
Lewis	Laborers	Batch Weighman	$43.11	7A	4V	8Y	View
Lewis	Laborers	Brick Pavers	$50.86	7A	4V	8Y	View
Lewis	Laborers	Brush Cutter	$50.86	7A	4V	8Y	View
Lewis	Laborers	Brush Hog Feeder	$50.86	7A	4V	8Y	View
Lewis	Laborers	Burner	$50.86	7A	4V	8Y	View
Lewis	Laborers	Caisson Worker	$52.44	7A	4V	8Y	View
Lewis	Laborers	Carpenter Tender	$50.86	7A	4V	8Y	View
Lewis	Laborers	Cement Dumper-paving	$51.80	7A	4V	8Y	View
Lewis	Laborers	Cement Finisher Tender	$50.86	7A	4V	8Y	View
Lewis	Laborers	Change House Or Dry Shack	$50.86	7A	4V	8Y	View
Lewis	Laborers	Chipping Gun (30 Lbs. And Over)	$51.80	7A	4V	8Y	View
Lewis	Laborers	Chipping Gun (Under 30 Lbs.)	$50.86	7A	4V	8Y	View
Lewis	Laborers	Choker Setter	$50.86	7A	4V	8Y	View
Lewis	Laborers	Chuck Tender	$50.86	7A	4V	8Y	View
Lewis	Laborers	Clary Power Spreader	$51.80	7A	4V	8Y	View
Lewis	Laborers	Clean-up Laborer	$50.86	7A	4V	8Y	View
Lewis	Laborers	Concrete Dumper/Chute Operator	$51.80	7A	4V	8Y	View
Lewis	Laborers	Concrete Form Stripper	$50.86	7A	4V	8Y	View
Lewis	Laborers	Concrete Placement Crew	$51.80	7A	4V	8Y	View

Lewis	Laborers	Concrete Saw Operator/Core Driller	$51.80	7A	4V	8Y	View
Lewis	Laborers	Crusher Feeder	$43.11	7A	4V	8Y	View
Lewis	Laborers	Curing Laborer	$50.86	7A	4V	8Y	View
Lewis	Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	$50.86	7A	4V	8Y	View
Lewis	Laborers	Ditch Digger	$50.86	7A	4V	8Y	View
Lewis	Laborers	Diver	$52.44	7A	4V	8Y	View
Lewis	Laborers	Drill Operator (Hydraulic, Diamond)	$51.80	7A	4V	8Y	View
Lewis	Laborers	Dry Stack Walls	$50.86	7A	4V	8Y	View
Lewis	Laborers	Dump Person	$50.86	7A	4V	8Y	View
Lewis	Laborers	Epoxy Technician	$50.86	7A	4V	8Y	View
Lewis	Laborers	Erosion Control Worker	$50.86	7A	4V	8Y	View
Lewis	Laborers	Faller & Bucker Chain Saw	$51.80	7A	4V	8Y	View
Lewis	Laborers	Fine Graders	$50.86	7A	4V	8Y	View
Lewis	Laborers	Firewatch	$43.11	7A	4V	8Y	View
Lewis	Laborers	Form Setter	$50.86	7A	4V	8Y	View
Lewis	Laborers	Gabian Basket Builders	$50.86	7A	4V	8Y	View
Lewis	Laborers	General Laborer	$50.86	7A	4V	8Y	View
Lewis	Laborers	Grade Checker & Transit Person	$52.44	7A	4V	8Y	View
Lewis	Laborers	Grinders	$50.86	7A	4V	8Y	View
Lewis	Laborers	Grout Machine Tender	$50.86	7A	4V	8Y	View
Lewis	Laborers	Groutmen (Pressure) Including Post Tension Beams	$51.80	7A	4V	8Y	View
Lewis	Laborers	Guardrail Erector	$50.86	7A	4V	8Y	View
Lewis	Laborers	Hazardous Waste Worker (Level A)	$52.44	7A	4V	8Y	View
Lewis	Laborers	Hazardous Waste Worker (Level B)	$51.80	7A	4V	8Y	View
Lewis	Laborers	Hazardous Waste Worker (Level C)	$50.86	7A	4V	8Y	View
Lewis	Laborers	High Scaler	$52.44	7A	4V	8Y	View
Lewis	Laborers	Jackhammer	$51.80	7A	4V	8Y	View
Lewis	Laborers	Laserbeam Operator	$51.80	7A	4V	8Y	View
Lewis	Laborers	Maintenance Person	$50.86	7A	4V	8Y	View
Lewis	Laborers	Manhole Builder-Mudman	$51.80	7A	4V	8Y	View
Lewis	Laborers	Material Yard Person	$50.86	7A	4V	8Y	View
Lewis	Laborers	Motorman-Dinky Locomotive	$51.80	7A	4V	8Y	View
Lewis	Laborers	Nozzleman (Concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Blaster, Vacuum Blaster)	$51.80	7A	4V	8Y	View

Lewis	Laborers	Pavement Breaker	$51.80	7A	4V	8Y	View
Lewis	Laborers	Pilot Car	$43.11	7A	4V	8Y	View
Lewis	Laborers	Pipe Layer Lead	$52.44	7A	4V	8Y	View
Lewis	Laborers	Pipe Layer/Tailor	$51.80	7A	4V	8Y	View
Lewis	Laborers	Pipe Pot Tender	$51.80	7A	4V	8Y	View
Lewis	Laborers	Pipe Reliner	$51.80	7A	4V	8Y	View
Lewis	Laborers	Pipe Wrapper	$51.80	7A	4V	8Y	View
Lewis	Laborers	Pot Tender	$50.86	7A	4V	8Y	View
Lewis	Laborers	Powderman	$52.44	7A	4V	8Y	View
Lewis	Laborers	Powderman's Helper	$50.86	7A	4V	8Y	View
Lewis	Laborers	Power Jacks	$51.80	7A	4V	8Y	View
Lewis	Laborers	Railroad Spike Puller - Power	$51.80	7A	4V	8Y	View
Lewis	Laborers	Raker - Asphalt	$52.44	7A	4V	8Y	View
Lewis	Laborers	Re-timberman	$52.44	7A	4V	8Y	View
Lewis	Laborers	Remote Equipment Operator	$51.80	7A	4V	8Y	View
Lewis	Laborers	Rigger/Signal Person	$51.80	7A	4V	8Y	View
Lewis	Laborers	Rip Rap Person	$50.86	7A	4V	8Y	View
Lewis	Laborers	Rivet Buster	$51.80	7A	4V	8Y	View
Lewis	Laborers	Rodder	$51.80	7A	4V	8Y	View
Lewis	Laborers	Scaffold Erector	$50.86	7A	4V	8Y	View
Lewis	Laborers	Scale Person	$50.86	7A	4V	8Y	View
Lewis	Laborers	Sloper (Over 20")	$51.80	7A	4V	8Y	View
Lewis	Laborers	Sloper Sprayer	$50.86	7A	4V	8Y	View
Lewis	Laborers	Spreader (Concrete)	$51.80	7A	4V	8Y	View
Lewis	Laborers	Stake Hopper	$50.86	7A	4V	8Y	View
Lewis	Laborers	Stock Piler	$50.86	7A	4V	8Y	View
Lewis	Laborers	Swinging Stage/Boatswain Chair	$43.11	7A	4V	8Y	View
Lewis	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	$51.80	7A	4V	8Y	View
Lewis	Laborers	Tamper (Multiple & Self-propelled)	$51.80	7A	4V	8Y	View
Lewis	Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	$51.80	7A	4V	8Y	View
Lewis	Laborers	Toolroom Person (at Jobsite)	$50.86	7A	4V	8Y	View
Lewis	Laborers	Topper	$50.86	7A	4V	8Y	View
Lewis	Laborers	Track Laborer	$50.86	7A	4V	8Y	View
Lewis	Laborers	Track Liner (Power)	$51.80	7A	4V	8Y	View
Lewis	Laborers	Traffic Control Laborer	$46.10	7A	4V	9C	View
Lewis	Laborers	Traffic Control Supervisor	$46.10	7A	4V	9C	View
Lewis	Laborers	Truck Spotter	$50.86	7A	4V	8Y	View
Lewis	Laborers	Tugger Operator	$51.80	7A	4V	8Y	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	$120.61	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00	$125.64	7A	4V	9B	View

		psi					
Lewis	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	$129.32	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	$135.02	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	$137.14	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	$142.24	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	$144.14	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	$146.14	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	$148.14	7A	4V	9B	View
Lewis	Laborers	Tunnel Work-Guage and Lock Tender	$52.54	7A	4V	8Y	View
Lewis	Laborers	Tunnel Work-Miner	$52.54	7A	4V	8Y	View
Lewis	Laborers	Vibrator	$51.80	7A	4V	8Y	View
Lewis	Laborers	Vinyl Seamer	$50.86	7A	4V	8Y	View
Lewis	Laborers	Watchman	$39.18	7A	4V	8Y	View
Lewis	Laborers	Welder	$51.80	7A	4V	8Y	View
Lewis	Laborers	Well Point Laborer	$51.80	7A	4V	8Y	View
Lewis	Laborers	Window Washer/Cleaner	$39.18	7A	4V	8Y	View
Lewis	Laborers - Underground Sewer & Water	General Laborer & Topman	$50.86	7A	4V	8Y	View
Lewis	Laborers - Underground Sewer & Water	Pipe Layer	$51.80	7A	4V	8Y	View
Lewis	Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	$39.18	7A	4V	8Y	View
Lewis	Landscape Construction	Landscape Operator	$65.71	7A	3K	8X	View
Lewis	Landscape Maintenance	Groundskeeper	$13.50		1		View
Lewis	Lathers	Journey Level	$62.44	5D	1H		View
Lewis	Marble Setters	Journey Level	$58.82	5A	1M		View
Lewis	Metal Fabrication (In Shop)	Fitter	$15.16		1		View
Lewis	Metal Fabrication (In Shop)	Laborer	$13.50		1		View
Lewis	Metal Fabrication (In Shop)	Machine Operator	$13.50		1		View
Lewis	Metal Fabrication (In Shop)	Painter	$13.50		1		View
Lewis	Metal Fabrication (In Shop)	Welder	$15.16		1		View
Lewis	Millwright	Journey Level	$63.94	7A	4C		View
Lewis	Modular Buildings	Cabinet Assembly	$13.50		1		View
Lewis	Modular Buildings	Electrician	$13.50		1		View
Lewis	Modular Buildings	Equipment Maintenance	$13.50		1		View

Lewis	Modular Buildings	Plumber	$13.50		1		View
Lewis	Modular Buildings	Production Worker	$13.50		1		View
Lewis	Modular Buildings	Tool Maintenance	$13.50		1		View
Lewis	Modular Buildings	Utility Person	$13.50		1		View
Lewis	Modular Buildings	Welder	$13.50		1		View
Lewis	Painters	Journey Level	$43.40	6Z	2B		View
Lewis	Pile Driver	Crew Tender	$67.31	7A	4C		View
Lewis	Pile Driver	Crew Tender/Technician	$67.31	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	$77.93	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	$82.93	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	$86.93	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	$91.93	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	$94.43	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	$99.43	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	$101.43	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	$103.43	7A	4C		View
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	$105.43	7A	4C		View
Lewis	Pile Driver	Journey Level	$62.69	7A	4C		View
Lewis	Plasterers	Journey Level	$59.42	7Q	1R		View
Lewis	Playground & Park Equipment Installers	Journey Level	$13.50		1		View
Lewis	Plumbers & Pipefitters	Journey Level	$76.22	5A	1G		View
Lewis	Power Equipment Operators	Asphalt Plant Operator	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Assistant Engineers	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Barrier Machine (zipper)	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Batch Plant Operator: Concrete	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Bobcat	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Brokk - Remote Demolition Equipment	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Brooms	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Bump Cutter	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Cableways	$66.81	7A	3K	8X	View

Lewis	Power Equipment Operators	Chipper	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Compressor	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42m	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Concrete Finish Machine - laser Screed	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Conveyors	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes, 100 Tons - 199 Tons, Or 150 Ft Of Boom (including Jib With Attachments)	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: 200 tons to 299 tons, or 250' of boom (including jib with attachments)	$68.17	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: 300 tons and over, or 300' of boom (including jib with attachments)	$68.84	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: Friction 200 tons and over. Tower Cranes: over 250' in height from base to boom.	$68.84	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: Friction cranes through 199 tons	$68.17	7A	3K	8X	View
Lewis	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Crusher	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Deck Engineer/deck Winches (power)	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Derricks, On Building Work	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Dozers D-9 & Under	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Drilling Machine	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	$62.85	7A	3K	8X	View

Lewis	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Grade Engineer: Using Blueprints, Cut Sheets,etc.	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Gradechecker/stakeman	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Guardrail punch/Auger	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Horizontal/directional Drill Locator	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Horizontal/directional Drill Operator	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Loaders, Overhead Under 6 Yards	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Loaders, Plant Feed	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Loaders: Elevating Type Belt	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Locomotives, All	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Material Transfer Device	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Mechanics, All (Leadmen - $0.50 Per Hour Over Mechanic)	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators	Motor patrol graders	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers,strato	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Overhead, Bridge Type	$66.22	7A	3K	8X	View

		Crane: 20 Tons Through 44 Tons					
Lewis	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Pavement Breaker	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Pile Driver (other Than Crane Mount)	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Posthole Digger, Mechanical	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Power Plant	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Pumps - Water	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Quad 9, HD 41, D10 And Over	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Rigger And Bellman	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Rollagon	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Roller, Other Than Plant Mix	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Roto-mill, Roto-grinder	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Saws - Concrete	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Scrapers - Concrete & Carry All	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Service Engineers - Equipment	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Shotcrete/gunite Equipment	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$66.22	7A	3K	8X	View

Lewis	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$68.17	7A	3K	8X	View
Lewis	Power Equipment Operators	Slipform Pavers	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Spreader, Topsider & Screedman	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Subgrader Trimmer	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Tower Bucket Elevators	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Tower crane over 175' through 250' in height, base to boom	$68.17	7A	3K	8X	View
Lewis	Power Equipment Operators	Tower Crane Up: To 175' In Height, Base To Boom	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators	Transporters, All Track Or Truck Type	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Trenching Machines	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators	Truck Mount Portable Conveyor	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators	Welder	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators	Wheel Tractors, Farmall Type	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators	Yo Yo Pay Dozer	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operator	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Assistant Engineers	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator: Concrete	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Bobcat	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Brokk - Remote Demolition Equipment	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Brooms	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Bump Cutter	$66.22	7A	3K	8X	View

Lewis	Power Equipment Operators- Underground Sewer & Water	Cableways	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Chipper	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Compressor	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42m	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine - laser Screed	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Conveyors	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes, 100 Tons - 199 Tons, Or 150 Ft Of Boom (including Jib With Attachments)	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes, 200 tons to 299 tons, or 250' of boom (including jib with attachments)	$68.17	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes, Over 300 Tons, Or 300' Of Boom Including Jib With Attachments	$68.84	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	cranes: 300 tons and over, or 300' of boom (including jib with attachments)	$68.84	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: Friction 200 tons and over. Tower Cranes: over 250' in height from base to boom.	$68.84	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	$68.17	7A	3K	8X	View

Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Crusher	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Deck Engineer/deck Winches (power)	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Derricks, On Building Work	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Drilling Machine	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blueprints, Cut Sheets,etc.	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Gradechecker/stakeman	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Guardrail punch/Auger	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Locator	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Operator	$66.22	7A	3K	8X	View

Lewis	Power Equipment Operators- Underground Sewer & Water	Hydralifts/Boom Trucks Over 10 Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Loaders, Overhead Under 6 Yards	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Locomotives, All	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Mechanics, All (Leadmen - $0.50 Per Hour Over Mechanic)	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Motor patrol graders	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers,strato	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	$62.85	7A	3K	8X	View
Lewis	Power Equipment	Pile Driver (other Than	$66.22	7A	3K	8X	View

	Operators- Underground Sewer & Water	Crane Mount)					
Lewis	Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Power Plant	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Pumps - Water	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Quad 9, HD 41, D10 And Over	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Rigger And Bellman	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Rollagon	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Roller, Other Than Plant Mix	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground	Service Engineers - Equipment	$65.71	7A	3K	8X	View

	Sewer & Water						
Lewis	Power Equipment Operators- Underground Sewer & Water	Shotcrete/gunite Equipment	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$68.17	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Tower crane over 175' through 250' in height, base to boom	$68.17	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Tower Crane: Up To 175' In Height, Base To Boom	$67.49	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	$66.81	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Trenching Machines	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	$65.71	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	$66.22	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Welder	$66.81	7A	3K	8X	View

Lewis	Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	$62.85	7A	3K	8X	View
Lewis	Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	$66.22	7A	3K	8X	View
Lewis	Power Line Clearance Tree Trimmers	Journey Level In Charge	$53.10	5A	4A		View
Lewis	Power Line Clearance Tree Trimmers	Spray Person	$50.40	5A	4A		View
Lewis	Power Line Clearance Tree Trimmers	Tree Equipment Operator	$53.10	5A	4A		View
Lewis	Power Line Clearance Tree Trimmers	Tree Trimmer	$47.48	5A	4A		View
Lewis	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$36.10	5A	4A		View
Lewis	Refrigeration & Air Conditioning Mechanics	Journey Level	$76.21	5A	1G		View
Lewis	Residential Brick Mason	Journey Level	$21.96		1		View
Lewis	Residential Carpenters	Journey Level	$24.89		1		View
Lewis	Residential Cement Masons	Journey Level	$16.79		1		View
Lewis	Residential Drywall Applicators	Journey Level	$36.07		1		View
Lewis	Residential Drywall Tapers	Journey Level	$24.48		1		View
Lewis	Residential Electricians	Journey Level	$36.53	5A	1B		View
Lewis	Residential Glaziers	Journey Level	$25.40		1		View
Lewis	Residential Insulation Applicators	Journey Level	$17.05		1		View
Lewis	Residential Laborers	Journey Level	$23.10		1		View
Lewis	Residential Marble Setters	Journey Level	$21.96		1		View
Lewis	Residential Painters	Journey Level	$18.76		1		View
Lewis	Residential Plumbers & Pipefitters	Journey Level	$26.35		1		View
Lewis	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$32.14		1		View
Lewis	Residential Sheet Metal Workers	Journey Level	$33.28		1		View
Lewis	Residential Soft Floor Layers	Journey Level	$14.86		1		View
Lewis	Residential Sprinkler Fitters (Fire Protection)	Journey Level	$20.28		1		View
Lewis	Residential Stone Masons	Journey Level	$21.96		1		View
Lewis	Residential Terrazzo Workers	Journey Level	$14.86		1		View
Lewis	Residential Terrazzo/Tile Finishers	Journey Level	$14.86		1		View
Lewis	Residential Tile Setters	Journey Level	$14.86		1		View
Lewis	Roofers	Journey Level	$54.62	5A	2O		View
Lewis	Roofers	Using Irritable Bituminous Materials	$57.62	5A	2O		View
Lewis	Sheet Metal Workers	Journey Level (Field or	$85.88	7F	1E		View

		Shop)					
Lewis	Sign Makers & Installers (Electrical)	Journey Level	$18.04		1		View
Lewis	Sign Makers & Installers (Non-Electrical)	Journey Level	$50.86	7A	4V	8Y	View
Lewis	Soft Floor Layers	Journey Level	$51.07	5A	3J		View
Lewis	Solar Controls For Windows	Journey Level	$13.50		1		View
Lewis	Sprinkler Fitters (Fire Protection)	Journey Level	$56.76	7J	1R		View
Lewis	Stage Rigging Mechanics (Non Structural)	Journey Level	$13.50		1		View
Lewis	Stone Masons	Journey Level	$58.82	5A	1M		View
Lewis	Street And Parking Lot Sweeper Workers	Journey Level	$16.00		1		View
Lewis	Surveyors	Chain Person	$65.11	7A	3K		View
Lewis	Surveyors	Instrument Person	$65.71	7A	3K		View
Lewis	Surveyors	Party Chief	$66.81	7A	3K		View
Lewis	Telecommunication Technicians	Journey Level	$44.70	6Z	1B		View
Lewis	Telephone Line Construction - Outside	Cable Splicer	$41.81	5A	2B		View
Lewis	Telephone Line Construction - Outside	Hole Digger/Ground Person	$23.53	5A	2B		View
Lewis	Telephone Line Construction - Outside	Installer (Repairer)	$40.09	5A	2B		View
Lewis	Telephone Line Construction - Outside	Special Aparatus Installer I	$41.81	5A	2B		View
Lewis	Telephone Line Construction - Outside	Special Apparatus Installer II	$40.99	5A	2B		View
Lewis	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	$41.81	5A	2B		View
Lewis	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$38.92	5A	2B		View
Lewis	Telephone Line Construction - Outside	Telephone Lineperson	$38.92	5A	2B		View
Lewis	Telephone Line Construction - Outside	Television Groundperson	$22.32	5A	2B		View
Lewis	Telephone Line Construction - Outside	Television Lineperson/Installer	$29.60	5A	2B		View
Lewis	Telephone Line Construction - Outside	Television System Technician	$35.20	5A	2B		View
Lewis	Telephone Line Construction - Outside	Television Technician	$31.67	5A	2B		View
Lewis	Telephone Line Construction - Outside	Tree Trimmer	$38.92	5A	2B		View
Lewis	Terrazzo Workers	Journey Level	$54.06	5A	1M		View
Lewis	Tile Setters	Journey Level	$54.06	5A	1M		View
Lewis	Tile, Marble & Terrazzo Finishers	Finisher	$44.89	5A	1B		View
Lewis	Traffic Control Stripers	Journey Level	$47.68	7A	1K		View
Lewis	Truck Drivers	Asphalt Mix Over 16 Yards	$60.84	5D	4Y	8L	View

Lewis	Truck Drivers	Asphalt Mix To 16 Yards	$60.00	5D	4Y	8L	View
Lewis	Truck Drivers	Dump Truck	$60.00	5D	4Y	8L	View
Lewis	Truck Drivers	Dump Truck & Trailer	$60.84	5D	4Y	8L	View
Lewis	Truck Drivers	Other Trucks	$60.84	5D	4Y	8L	View
Lewis	Truck Drivers - Ready Mix	Transit Mix	$60.84	5D	4Y	8L	View
Lewis	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$18.18		1		View
Lewis	Well Drillers & Irrigation Pump Installers	Oiler	$13.50		1		View
Lewis	Well Drillers & Irrigation Pump Installers	Well Driller	$18.00		1		View

Washington State Department of Labor and Industries
Policy Statement
(Regarding the Production of "Standard" or "Non-standard" Items)

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.

2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.

3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.

4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.

5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.

6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.

WSDOT's
Predetermined List for
Suppliers - Manufactures - Fabricator

Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

	ITEM DESCRIPTION	YES	NO
1.	Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans		X
2.	Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		X
3.	Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		X
4.	Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		X
5.	Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		X
6.	Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		X
7.	Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		X

	ITEM DESCRIPTION	YES	NO
8.	Anchor Bolts & Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.		X
9.	Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).	X	
10.	Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	X	
11.	Minor Structural Steel Fabrication - Fabrication of minor steel Items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contact Plans for item description and shop drawings.	X	
12.	Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).		X
13.	Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	X	
14.	Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		X
15.	Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		X
16.	Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		X

	ITEM DESCRIPTION	YES	NO
17.	Precast Concrete Inlet - with adjustment sections, See Std. Plans		X
18.	Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		X
19.	Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		X
20.	Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		X
21.	Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		X
22.	Vault Risers - For use with Valve Vaults and Utilities X Vaults.		X
23.	Valve Vault - For use with underground utilities. See Contract Plans for details.		X
24.	Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		X
25.	Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	X	
26.	Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	X	

	ITEM DESCRIPTION	YES	NO
27.	Precast Railroad Crossings - Concrete Crossing Structure Slabs.	X	
28.	12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
29.	Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A .	X	
30.	Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
31.	Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	X	
32.	Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
33.	Monument Case and Cover See Std. Plan.		X

	ITEM DESCRIPTION	YES	NO
34.	Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
35.	Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	X	
36.	Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
37.	Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		X
38.	Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	X	
39.	Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Specia Provisions for pre-approved drawings.	X	
40.	Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	X	
41.	Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		X

	ITEM DESCRIPTION	YES	NO
42.	Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. **NOTE:** *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	X	X
		Custom Message	Std Signing Message
43.	Cutting & bending reinforcing steel		X
44.	Guardrail components	X	X
		Custom End Sec	Standard Sec
45.	Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46.	Asphalt	Covered by WAC 296-127-018	
47.	Fiber fabrics		X
48.	Electrical wiring/components		X
49.	treated or untreated timber pile		X
50.	Girder pads (elastomeric bearing)	X	
51.	Standard Dimension lumber		X
52.	Irrigation components		X

ITEM DESCRIPTION	YES	NO
53. Fencing materials		X
54. Guide Posts		X
55. Traffic Buttons		X
56. Epoxy		X
57. Cribbing		X
58. Water distribution materials		X
59. Steel "H" piles		X
60. Steel pipe for concrete pile casings		X
61. Steel pile tips, standard		X
62. Steel pile tips, custom	X	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW 39.12.010
(The definition of "locality" in RCW 39.12.010(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.
The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.
When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential *** ALL ASSOCIATED RATES ***
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

Washington State Department of Labor and Industries
Policy Statements
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)

WAC 296-127-018 Agency filings affecting this section

Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.,) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]

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Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.

E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.

J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.

K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.

P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.

R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.

S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.

W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.

Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.

Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

   C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.

   F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.

   G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.

   H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

   O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.

   R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.

   U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.

   W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.

3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar ($1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

3. E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.

F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.

H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.

J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.

B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.

C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:
On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.

M. All hours worked on Sunday and Holidays shall be paid at double the hourly rate. Any employee reporting to work less than nine (9) hours from their previous quitting time shall be paid for such time at time and one-half times the hourly rate.

N. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays, and all work performed between the hours of midnight (12:00 AM) and eight AM (8:00 AM) every day shall be paid at double the hourly rate of wage.

O. All hours worked between midnight Friday to midnight Sunday shall be paid at one and one-half the hourly rate of wage. After an employee has worked in excess of eight (8) continuous hours in any one or more calendar days, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of six (6) hours or more. All hours worked on Holidays shall be paid at double the hourly rate of wage.

P. All hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage.

Q. The first four (4) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday shall be paid at double the hourly rate. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

R. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

S. All hours worked on Saturdays and Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.

T. The first two (2) hours of overtime for hours worked Monday-Friday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. For work on Saturday which is scheduled prior to the end of shift on Friday, the first six (6) hours work shall be paid at one and one-half times the hourly rate of wage, and all hours over (6) shall be paid double the hourly rate of wage. For work on Saturday which was assigned following the close of shift on Friday, all work shall be paid at double the hourly rate of wage.

U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. V. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established or outside the normal shift (5 am to 6pm), and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

In the event the job is down due to weather conditions, then Saturday may, be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

W. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

X. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

4. Y. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. All work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay.

   Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar ($1.00) per hour for all hours worked that shift.

   After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).

   B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).

   C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

   D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).

   H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).

   I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

   J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).

   K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).

   L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).

   N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).

   P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.

   Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

Holiday Codes Continued

5. R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).

   S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).

   T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).

   Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

   E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).

   G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).

   H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).

   I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).

   T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).

   Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.

7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

   B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

   C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.

P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Holiday Codes Continued

7. Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.

X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.

Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.

Z. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

15. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8) Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

B. Holidays: New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. (9)

C. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8)

Holiday Codes Continued

15. D. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, and the day after Christmas.

E. Holidays: the day before New Years's Day, New Year's Day, Martin Luther King, Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day. (12)

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.

M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: $1.00, Levels C & D: $0.50.

N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: $2.00, Class B Suit: $1.50, Class C Suit: $1.00, And Class D Suit $0.50.

Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: $2.00, Class B Suit: $1.50, And Class C Suit: $1.00. Workers performing underground work receive an additional $0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional $0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do "pioneer" work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional $0.50 per hour.

Note Codes Continued

8. V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

   Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - $2.00 per foot for each foot over 50 feet. Over 101' to 150' - $3.00 per foot for each foot over 101 feet. Over 151' to 220' - $4.00 per foot for each foot over 220 feet. Over 221' - $5.00 per foot for each foot over 221 feet.

   Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25’ to 300’ - $1.00 per foot from entrance. 300’ to 600’ - $1.50 per foot beginning at 300’. Over 600’ - $2.00 per foot beginning at 600’.

   W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

   X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: $2.00, Class B Suit: $1.50, Class C Suit: $1.00, and Class D Suit: $0.50. Special Shift Premium: Basic hourly rate plus $2.00 per hour.

   When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

   Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

   Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

   Z. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

   Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Note Codes Continued

9. A. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid $0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

(A) – 130’ to 199’ – $0.50 per hour over their classification rate.
(B) – 200’ to 299’ – $0.80 per hour over their classification rate.
(C) – 300’ and over – $1.00 per hour over their classification rate.

B. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.

D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

APPENDIX B

BID PROPOSAL DOCUMENTS

INCLUDING:

Notice to Contractor

Proposal Form

Non-Collusion Declaration

Proposal Signature Page

Certification of Compliance with Wage Payment Statutes

Local Agency Subcontractor List

Lewis County Department of Public Works

Josh S. Metcalf, PE, Director
Tim Fife, PE, County Engineer

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN that the Board of County Commissioners of Lewis County or designee, will open sealed proposals and publicly read them aloud on or after 11:00 a.m. on **Tuesday, March 31, 2020**, at the Lewis County Courthouse in Chehalis, Washington for the Jackson Hwy South Culvert Replacement Project, RAP Project No. 2117-01, CRP 2167C.

SEALED BIDS MUST BE DELIVERED BY OR BEFORE
11:00 A.M. on Tuesday, March 31, 2020

(Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners. **Bids submitted after 11:00 AM will not be considered for this project**.)

Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532), by or before **11:00 A.M.** on the date specified for opening, and in an envelope clearly marked: ***"SEALED BID FOR THE JACKSON HWY SOUTH CULVERT REPLACEMENT PROJECT, RAP PROJECT NO. 2117-01, CRP 2167C, TO BE OPENED ON OR AFTER 11:00 A.M. ON TUESDAY, MARCH 31, 2020."***

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory contract bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the Lewis County Public Works Department.

Informational copies of maps, plans and specifications are on file for inspection in the office of the County Engineer of Lewis County in Chehalis, Washington. The contract documents may be viewed and downloaded from Lewis County's Web Site @ www.lewiscountywa.gov or you may call the Lewis County Engineers office @ (360)740-2612 and request a copy be mailed to you. All Contractor questions and Lewis County clarifying answers will be posted on our website and emailed to all Contractors registered on Lewis County's Planholder List. Plan or specification changes shall be accomplished through official project addendums.

The Lewis County Public Works Department in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin, or sex in consideration for an award.

PROPOSAL

TO: BOARD OF COUNTY COMMISSIONERS
LEWIS COUNTY
CHEHALIS, WASHINGTON 98532

This certifies that the undersigned has examined the location of the Jackson Hwy South Culvert Replacement Project - RAP Project No. 2117-01, CRP No. 2167C, in Lewis County, Washington, and that the plans, specifications and contract governing the work embraced in these improvements, and the method by which payment will be made for said work is understood. The undersigned hereby proposes to undertake and complete the work embraced in this improvement, or as much thereof as can be completed with the money available in accordance with the said plans, specifications and contract, and the following schedules of rates and prices:

NOTE: Unit prices for all items, all extensions, and total amount of bid shall be shown: All entries must be typed or entered in ink.

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
1	1 L.S.	Mobilization	LUMP SUM	$
2	0.16 ACRE	Clearing And Grubbing	$	$
3	1 L.S.	Removal of Structures And Obstructions	LUMP SUM	$
4	312.5 L.F.	Removing Guardrail	$	$
5	4 EACH	Removing Guardrail Anchor	$	$
6	430 C.Y.	Roadway Excavation Incl. Haul	$	$
7	1,500 TON	Select Borrow Incl. Haul	$	$
8	350 C.Y.	Embankment Compaction	$	$
9	15 C.Y.	Ditch Excavation Incl. Haul	$	$
10	50 C.Y.	Channel Excavation Incl. Haul	$	$
11	238 TON	Strembed Sediment	$	$
12	300 EACH	Streambed Boulder One Man	$	$
13	138 L.F.	Schedule A Culv. Pipe 18 In. Diam.	$	$
14	1 L.S.	Precast Reinf. Conc. Split Box Culvert	LUMP SUM	$
15	1 L.S.	Temporary Stream Diversion	LUMP SUM	$
16	488 TON	Streambed Mix	$	$

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
17	215 TON	Cascade Mix	$	$
18	1 EACH	Catch Basin Type 2, 60 In. Diam.	$	$
19	1,490 C.Y.	Structure Excavation Class A Incl. Haul	$	$
20	690 TON	Crushed Surfacing Base Course	$	$
21	150 TON	Crushed Surfacing Top Course	$	$
22	0.10 MILE	Shoulder Finishing	$	$
23	75 S.Y.	Planing Bituminous Pavement	$	$
24	195 TON	HMA Cl. 3/8 In. PG 58H-22 Fiber Reinforced	$	$
25	0 EST.	Erosion / Water Pollution Control	ESTIMATED	$5,000.00
26	0.27 ACRE	Seeding and Mulching	$	$
27	245 S.Y.	Topsoil Type C	$	$
28	239 L.F.	High Visibility Silt Fence	$	$
29	1 L.S.	Planting Mitigation Construction	LUMP SUM	$
30	206.25 L.F.	Beam Guardrail Type 31 - 8 ft. Long Post	$	$
31	18.75 L.F.	Beam Guardrail Type 31	$	$
32	2 EACH	Beam Guardrail Type 31 Non-Flared Terminal	$	$
33	75 L.F.	Beam Guardrail Type 31 Buried Terminal Type 2	$	$
34	1 EACH	Beam Guardrail Anchor Type 10	$	$
35	1.0 L.S.	Project Temporary Traffic Control	LUMP SUM	$
36	311.5 S.F.	Construction Signs Class A	$	$
37	90 C.Y.	Structure Excavation Class B Incl. Haul	$	$
38	165 C.Y.	Gravel Backfill For Foundation Class A	$	$
39	1 L.S.	Trimming And Cleanup	LUMP SUM	$

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
40	0 EST.	Reimbursement For Third Party Damage	ESTIMATED	$0.00
41	1 CALC.	Minor Change	CALCULATED	$25,000.00
42	1 L.S.	SPCC Plan	LUMP SUM	$
43	2 EACH	Mailbox Support Type 1	$	$
44	1 L.S.	Plugging Existing Pipe	LUMP SUM	$
45	1 L.S.	Cutoff Wall	LUMP SUM	$
			TOTAL BID	$

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participation in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

2. **That by signing the signature page of this proposal, I am deemed to have signed and have agreed to the provisions of this declaration.**

NOTICE TO ALL BIDDERS

To report bid rigging activities

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bid collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

DOT Form 272-036H
Revised 10/94

PROPOSAL - SIGNATURE PAGE

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

CASH ☐ **IN THE AMOUNT OF**_____

CASHIER'S CHECK ☐ _____ **DOLLARS**

CERTIFIED CHECK ☐ **($**_____**) PAYABLE TO THE LEWIS COUNTY TREASURER**

PROPOSAL BOND ☐ **IN THE AMOUNT OF 5% OF THE BID**

**** Receipt is hereby acknowledged of addendum(s) No.(s) _____, _____, _____, & _____**

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Proposal Must be Signed _____

Firm Name _____

Address _____

_____

_____

State of Washington Contractor's License No. _____

Unified Business Identifier (U.B.I.) No. _____

Telephone No. _____

Federal ID No. _____

Note:
This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the Lewis County Engineer will be cause for considering the proposal irregular and subsequent rejection of the bid.

*Attach Power of Attorney

Lewis County Department of Public Works

Josh Metcalf, PE, Director

Tim Fife, PE, County Engineer

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date ( ), the bidder is not a "willful" violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

_____
Bidder's Business Name

_____
Signature of Authorized Official*

_____
Printed Name

_____
Title

_____ _____ _____
Date City State

Check One:
Sole Proprietorship ☐ Partnership ☐ Joint Venture ☐ Corporation ☐

State of Incorporation, or if not a corporation, State where business entity was formed:

_____

If a co-partnership, give firm name under which business is transacted:

_____

** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*

APPENDIX C

CONTRACT DOCUMENTS

INCLUDING:

Contract Form

Contract Bond

Power Equipment List

CONTRACT

THIS AGREEMENT, made and entered into this __ day of _____, 2020, between the BOARD OF COUNTY COMMISSIONERS of LEWIS COUNTY, State of Washington, acting under and by virtue of RCW 36.77.040, hereinafter called

the Board, and _____ of _____

for___sel___, heirs, executors, administrators, successors and assigns, hereinafter called the Contractor.

WITNESSETH:

That in consideration of the payments, covenants and agreements hereinafter mentioned to be made and performed by the parties hereto, the parties hereto covenant and agree as follows:

DESCRIPTION OF WORK:

1. The Contractor shall do all work and furnish all material necessary to improve Jackson Hwy South in Lewis County by replacing culvert and placing detour, reconstructing roadway, flattening slopes, crushed surfacing base and top course, hot mix asphalt overlays, shoulder finishing, traffic control, placing guardrail, and other work, all in Lewis County Washington, in accordance with and as described in the attached plans and specifications, and in full compliance with the terms, conditions and stipulations herein set forth and attached, now referred to and by such reference incorporated herein and made a part hereof as fully for all purposes as if here set forth at length, and shall perform any alterations in or additions to the work covered by this contract and every part thereof and any extra work which may be ordered as provided in this contract and every part thereof.

The Contractor shall provide and be at the expense of all materials, labor, carriage, tools, implements and conveniences and things of every description that may be requisite for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof.

2. The County hereby promises and agrees with the Contractor to hire and does hire the Contractor to provide the materials and to do and cause to be done the above described work and to complete and furnish the same according to the attached plans and specifications and the terms and conditions herein contained, and hereby contracts to pay for the same according to the schedule of unit or itemized prices at the time and in the manner and upon the conditions provided for in this contract and every part thereof. The County further agrees to hire the contractor to perform any alterations in or conditions to the work covered by this contract and every part thereof and any force account work that may be ordered and to pay for the same under the terms of this contract and the attached plans and specifications.

3. The Contractor for himself, and for his heirs, executors administrators, successors and assigns, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.

4. It is further provided that no liability shall attach to the County be reason of entering into this contract, except as expressly provided herein.

5. CANCELLATION OF CONTRACT FOR VIOLATION OF STATE POLICY

This contract, pursuant to RCW 49.28.040 to RCW 49.28.060, may be canceled by the officers or agents of the Owner authorized to contract for or supervise the execution of such work, in case such work is not performed in accordance with the policy of the State of Washington.

6. DOCUMENTS COMPRISING CONTRACT

All documents hereto attached, including but not being limited to the advertisement for bids, information for bidders, bid proposal form, general conditions (if any), special conditions (if any), complete specifications and the complete plans, are hereby made a part of this contract.

IN WITNESS WHEREOF, the said Contractor has executed this instrument, and the said Board of County Commissioners of aforesaid County, pursuant to resolution duly adopted, has caused this instrument to be executed by and in the name of said Board by its Chairman, duly attested by its Clerk, the day and year first above written, and the seal of said Board to be hereunto affixed on the date in this instrument first above written.

_____

By:_____

_____
Contractor

Performance of foregoing contract assured in accordance with the terms of the accompanying bond.

Dated: _____, 2020

By: _____
Surety

By: _____
Attorney-in-fact

APPROVED AS TO FORM:

JONATHAN MEYER Prosecuting Attorney

By:_____
Civil Deputy

APPROVED:

_____

County Engineer

CONTRACT BOND FOR **Bond No. _____**
LEWIS COUNTY, WASHINGTON

WE, _____ d/b/a _____
(Insert legal name of Contractor) (Insert trade name of Contractor, if any)

(hereinafter "Principal"), and _____ (hereinafter "Surety"), are held and firmly bound unto **LEWIS COUNTY, WASHINGTON** (hereinafter "County"), as Obligee, in an amount (in lawful money of the United States of America) equal to the total compensation and expense reimbursement payable to Principal for satisfactory completion of Principal's work under Contract No. **CRP 2167C, RAP Project No. 2117-01** between Principal and County, which total is ***initially*** _____Dollars ($_____), for the payment of which sum Principal and Surety bind themselves, their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.. Said contract (hereinafter referred to as "the Contract") is for the **Jackson Hwy South Culvert Replacement Project,** and is made a part hereof by this reference. The Contract includes the original agreement as well as all documents attached thereto or made a part thereof and amendments, change orders, and any other document modifying, adding to or deleting from said Contract any portion thereof.

This Bond is executed in accordance with the laws of the State of Washington, and is subject to all provisions thereof and the ordinances of County insofar as they are not in conflict therewith, and is entered into for the use and benefit of County, and all laborers, mechanics, subcontractors, and materialmen, and all persons who supply such person or persons, or subcontractors, with provisions or supplies for the carrying on of the work covered by Contract No. **CRP 2167C, RAP Project No. 2117-01,** between the below-named Contractor and County for the **Jackson Hwy South Culvert Replacement Project**, a copy of which Contract, by this reference is made a part hereof and is hereinafter referred to as "the Contract." (The Contract as defined herein includes the aforesaid agreement together with all of the Contract documents including addenda, exhibits, attachments, modifications, alterations, and additions thereto, deletions therefrom, amendments and any other document or provision attached to or incorporated into the Contract)

THE CONDITION OF THIS OBLIGATION is such that if Contractor shall promptly and faithfully perform the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

THE PARTIES FURTHER ACKNOWLEDGE & AGREE AS FOLLOWS:

(1) Surety hereby consents to, and waives notice of, any alteration, change order, or other modification of the Contract and any extension of time made by County, except that any single or cumulative change order amounting to more than twenty-five percent (25%) of the penal sum of this bond shall require Surety's written consent.

(2) Surety recognizes that the Contract includes provisions for additions, deletions, and modifications to the work or Contract Time and the amounts payable to Contractor. Subject to the limitations contained in paragraph (1) above, no such change or any combination thereof, shall void or impair Surety's obligation hereunder.

(3) Surety is subject to the provisions contained in Section 1-03.4, "Contract Bond," of the Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge, and Municipal Construction. And such provisions are incorporated by reference. A copy may be viewed at WSDOT's website www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/.

(4) Whenever County has declared Contractor to be in default and County has given Surety written notice of such declaration, Surety shall promptly (in no event more than thirty [30] days following receipt of such notice), specify, in written notice to County, which of the following actions Surety intends to take to remedy such default, and thereafter shall:

(a) Remedy the default within fifteen (15) days after its notice to County, as stated in such notice; or

(b) Assume within fifteen (15) days following its notice to County, full responsibility for the completion of the Contract in accordance with all of its provisions, as stated in such notice, and become entitled to payment of the balance of the Contract sum as provided in the Contract; or

(c) Pay County upon completion of the Contract, in cash, the cost of completion together with all other reasonable costs and expenses incurred by County as a result of Contractor's default, including but not limited to those incurred by County to mitigate its losses, which may include but are not limited to attorneys' fees and the cost of efforts to complete the work prior to Surety's exercising any option available to it under this Bond; or

(d) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon a determination by County and Surety jointly of the lowest responsible bidder, arrange for one or more agreements between such bidder and County, and make available as work progresses (even though there is a default or a succession of defaults under such agreement(s) for completion arranged for under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract price, but not exceeding, including other costs and damages for which Surety may be liable hereunder, the penal sum of this Bond. The term "balance of the Contract price," as used in this paragraph, shall mean the total amount payable by County to Contractor under the Contract, less the amount properly paid by County to Contractor.

(5) If County commences suit and obtains judgment against Surety for recovery hereunder, then Surety, in addition to such judgment, shall pay all costs and attorneys' fees incurred by County in enforcement of County's rights hereunder. The venue for any action arising out of or in connection with this bond shall be in Lewis County, Washington.

(6) No right or action shall accrue on this Bond to or for the use of any person or corporation other than Lewis County, except as herein provided.

(7) No rider, amendment or other document modifies this Bond except as follows, which by this reference is incorporated herein:

SURETY'S QUALIFICATIONS: Every Surety named on this bond must appear on the United States Treasury Department's most current list (Circular 570 as amended or superseded) and be authorized by the Washington State Insurance Commissioner to transact business as a surety in the State of Washington. In addition, the Surety must have a current rating of at least A-:VII in A. M. Best's Key Rating Guide.

INSTRUCTIONS FOR SIGNATURES: This bond must be signed by the president or a vice-president of a corporation; the managing general partner of a partnership; managing joint venturer of a joint venture; manager of a limited liability company or, if no manager has been designated, a member of such LLC; a general partner of a limited liability partnership; or the owner(s) of a sole proprietorship. If the bond is signed by any other representative, the Principal must attach currently-dated, written proof of that signer's authority to bind the Principal, identifying and quoting the provision in the corporate articles of incorporation, bylaws, Board resolution, partnership agreement, certificate of formation, or other document authorizing delegation of signature authority to such signer, and confirmation acceptable to the County that such delegation was in effect on the date the bond was signed. **A NOTARY PUBLIC MUST ACKNOWLEDGE EACH SIGNATURE BELOW.**

FOR THE SURETY:

By _____
(Signature of Attorney-in-Fact)

_____
(Type or print name of Attorney-in-Fact)

_____
(Type or print telephone number for Attorney-in-Fact)

FOR THE PRINCIPAL:

By:_____
(Signature of authorized signer for Contractor)

_____
(Type or print name of signer for Contractor)

_____
(Type or print title of signer for Contractor)

STATE OF _____)
) ss: **ACKNOWLEDGMENT FOR CONTRACTOR**
COUNTY OF _____)

On this _____ day of _____, ____, before me a notary public in and for the State of _____, duly commissioned and sworn, personally appeared _____, the person described in and who executed the foregoing bond, and acknowledged to me that _____ signed and sealed said bond as the free and voluntary act and deed of the Contractor so identified in the foregoing bond for the uses and purposes therein mentioned, and on oath stated that _____is authorized to execute said bond for the Contractor named therein. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

_____ _____
(Signature of Notary Public) (Print or type name of Notary Public)

Notary Public in and for the State of _____ residing at _____
My commission expires _____. ***SEAL*** ➔

STATE OF _____)
) ss: **ACKNOWLEDGMENT FOR SURETY**
COUNTY OF _____)

On this _____ day of _____, ____, before me a notary public in and for the State of _____, duly commissioned and sworn, personally appeared _____, Attorney-in-Fact for the Surety that executed the foregoing bond, and acknowledged said bond to be the free and voluntary act and deed of the Surety for the uses and purposes therein mentioned, and on oath stated that _____ is authorized to execute said bond on behalf of the Surety, and that the seal affixed on said bond or the annexed Power of Attorney is the corporate seal of said Surety. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

_____ _____
(Signature of Notary Public) (Print or type name of Notary Public)

Notary Public in and for the State of _____ residing at _____
My commission expires _____. ***SEAL*** ➔

POWER EQUIPMENT LIST

The undersigned furthermore certifies that he/she is thoroughly aware that time is of the essence for the completion of this contract within the time specified in the special provisions, and hereby agrees to provide the Engineer a list of his power equipment to be used on this project.

This equipment list will be used in computing any Force Account that may be performed within this contract.

The Contractor must complete this form in its entirety.

POWER EQUIPMENT

Type of Equipment	Make	Model Number	Serial Number	* Capacity	Year Built

APPENDIX D

PERMIT DOCUMENTS

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, SEATTLE DISTRICT
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

Regulatory Branch

December 17, 2019

Ms. Ann Weckbeck
Lewis County Public Works
2025 Northeast Kresky Avenue
Chehalis, Washington 98532

Reference: NWS-2018-741
Lewis County Public Works
(Jackson Highway South
Culvert Replacement)

Dear Ms. Weckback:

We have reviewed your application to discharge fill in an unnamed tributary to the Cowlitz River to replace a culvert at the intersection of Jackson Highway South and Calvin Road, near Toledo, Lewis County, Washington. Based on the information you provided to us, Nationwide Permit (NWP) 3, *Maintenance* (Federal Register January 6, 2017, Vol. 82, No. 4), authorizes your proposal as depicted on the enclosed drawings dated May 30, 2019.

In order for this authorization to be valid, you must ensure the work is performed in accordance with the enclosed *NWP 3, Terms and Conditions* and the following special conditions:

a. You must install and maintain sediment and erosion controls during construction at the site until all disturbed soils have been vegetated or otherwise stabilized.

b. You must implement and abide by the riparian planting plan as shown on the revised Project Drawings, sheet 8 of 10, dated May 30, 2019. The plants shall be installed concurrent with the work authorized by this permit or immediately following project construction. A report, as-built drawing and photographs demonstrating the trees/plants have been installed or a report on the status of project construction must be submitted to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, within 12 months from the date of permit issuance. You can meet this reporting requirement by completing and submitting the enclosed *Report for Mitigation Work Completion* form.

c. You shall implement and abide by the *Archaeological Monitoring Plan for the Jackson Highway S Culvert Replacement Project, Lewis County, Washington,* dated November 4, 2019. A professional archaeologist shall be on-site to monitor for the presence of archaeological resources during all ground disturbing activities.

d. You shall prepare and submit a summary report of the findings of the archaeological monitoring (positive or negative) to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch within 60 days after monitoring has been completed. The report must prominently display the reference number NWS-2018-741.

e. If human remains, historic resources, or archaeological resources are encountered during construction, all ground disturbing activities shall cease in the immediate area and you shall immediately (within one business day of discovery) notify the U.S. Army Corps of Engineers (Corps), Seattle District, Regulatory Branch. You shall perform any work required by the Corps in accordance with Section 106 of the National Historic Preservation Act and Corps regulations.

f. This U.S. Army Corps of Engineers (Corps) permit does not authorize you to take a threatened or endangered species. In order to legally take a listed species, you must have a separate authorization under the Endangered Species Act (ESA) (e.g., an ESA Section 10 permit, or ESA Section 7 consultation Biological Opinion (BO) with non-discretionary "incidental take" provisions with which you must comply). The Regional Road Maintenance Program Limit 10 BO prepared by the National Marine Fisheries Service (NMFS) contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with the specified "incidental take" in the BO (NMFS Reference Numbers 2003-00313, 2004-00647, 2009-03290, and WCR-2014-304). Your authorization under this Corps permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the BO. These terms and conditions are incorporated by reference in this permit. Failure to comply with the commitments made in this document constitutes non-compliance with the ESA and your Corps permit. The NMFS is the appropriate authority to determine compliance with the ESA.

g. In order to protect the listed threatened and endangered species in the project area, you may conduct the authorized activities in the work window as agreed to and documented in writing through consultation by the National Marine Fisheries Service in any year this permit is valid. If changes to the originally authorized work window are proposed, you must re-coordinate these changes with the NMFS and receive written concurrence on the changes. Copies of the concurrence must be sent to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, within 10 days of the date of the revised concurrence.

h. Incidents where any individuals of fish species, marine mammals and/or sea turtles listed by National Oceanic and Atmospheric Administration Fisheries (NOAA Fisheries) under the Endangered Species Act appear to be injured or killed as a result of discharges of dredged or fill material into waters of the U.S. or structures or work in navigable waters of the U.S. authorized by this Nationwide Permit verification shall be reported to NOAA Fisheries, Office of Protected Resources at (301) 713-1401 and the Regulatory Office of the Seattle District of the U.S. Army Corps of Engineers at (206) 764-3495. The finder should leave the animal alone, make note of any circumstances likely causing the death or injury, note the location and number of individuals involved and, if possible, take photographs. Adult animals should not be disturbed unless circumstances arise where they are obviously injured or killed by discharge exposure or some unnatural cause. The finder may be asked to carry out instructions provided by NOAA Fisheries to collect specimens or take other measures to ensure that evidence intrinsic to the specimen is preserved.

We have reviewed your project pursuant to the requirements of the Endangered Species Act, the Magnuson-Stevens Fishery Conservation and Management Act and the National Historic Preservation Act. We have determined this project complies with the requirements of these laws provided you comply with all of the permit general and special conditions.

Please note that National General Condition 21, *Discovery of Previously Unknown Remains and Artifacts*, found in the *Nationwide Permit Terms and Conditions* enclosure, details procedures that must be followed should an inadvertent discovery occur. You must ensure that you comply with this condition during the construction of your project.

The authorized work complies with the Washington State Department of Ecology's (Ecology) Water Quality Certification (WQC) requirements for this NWP. No further coordination with Ecology for WQC is required.

You have not requested a jurisdictional determination for this proposed project. If you believe the U.S. Army Corps of Engineers does not have jurisdiction over all or portions of your project you may request a preliminary or approved jurisdictional determination (JD). If one is requested, please be aware that we may require the submittal of additional information to complete the JD and work authorized in this letter may not occur until the JD has been completed.

Our verification of this NWP authorization is valid until March 18, 2022, unless the NWP is modified, reissued, or revoked prior to that date. If the authorized work has not been completed by that date and you have commenced or are under contract to commence this activity before March 18, 2022, you will have until March 18, 2023, to complete the activity under the enclosed terms and conditions of this NWP. Failure to comply with all terms and conditions of this NWP

verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act. You must also obtain all local, State, and other Federal permits that apply to this project.

You are cautioned that any change in project location or plans will require that you submit a copy of the revised plans to this office and obtain our approval before you begin work. Deviating from the approved plans could result in the assessment of criminal or civil penalties.

Upon completing the authorized work, you must fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit*. Thank you for your cooperation during the permitting process. We are interested in your experience with our Regulatory Program and encourage you to complete a customer service survey. These documents and information about our program are available on our website at www.nws.usace.army.mil, select "Regulatory Branch, Permit Information" and then "Contact Us." If you have any questions, please contact me at evan.g.carnes@usace.army.mil or (206) 316-3049.

Sincerely,

Evan G. Carnes, Project Manager
Regulatory Branch

Enclosures

cc:
Washington Department of Ecology, Federal Permit Coordinator: ecyrefedpermits@ecy.wa.gov

LEGEND

EXISTING FEATURES

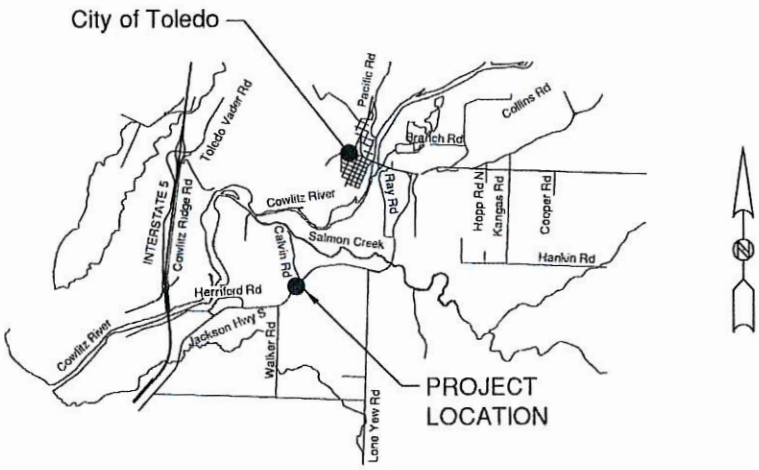
- CONIFER TREE
- DECIDUOUS TREE
- STUMP
- EDGE OF ROAD
- DITCH
- EDGE OF STREAM
- FENCE
- MAILBOX
- FENCEPOST
- TR — TELEPHONE RISER
- PP — POWER POLE
- OHWM
- EXISTING CULVERT

NEW CONSTRUCTION

- CENTERLINE
- HMA
- SHOULDER ROCK
- CULVERT
- STREAMBED MIX
- CASCADE MIX

SURVEY SYMBOLS

- SIXTEENTH LINE
- RIGHT OF WAY
- PROPERTY LINE



VICINITY MAP

NTS

SECTION 19, TWP. 11 N. RGE. 1W. W.M.

REFERENCE NUMBER: NWS-2018-741

PROJECT LOCATION (ADDRESS): JACKSON HIGHWAY SOUTH MP 2.108 TOLEDO, WA 98591

PROPOSED PROJECT: JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT

APPLICANT: LEWIS COUNTY

LAT/LONG: 46° 25' 11.4"/-122° 51' 37"

VERTICAL DATUM: NAVD88

HORIZONTAL DATUM: NAD83/91

IN: UNNAMED TRIB. TO COWLITZ RIVER

NEAR/AT: (city) TOLEDO

COUNTY: LEWIS

ADJACENT PROPERTY OWNERS:

1. PARCEL#011669-000-000 SCHAEFER, MIKE & CINDY
2. PARCEL#011663-001-000 OBERG, STANLEY J.
3. PARCEL#011667-000-000 WALLACE, RALLAND L.
4. PARCEL#011668-000-000 WALLACE, RALLAND L.
5. PARCEL#011659-003-004 ABOEN, EDWIN & LEINANEI T.
6. PARCEL#011659-003-006 ABOEN, EDWIN

Lewis County
Department of Public Works

SHEET 1 OF 10

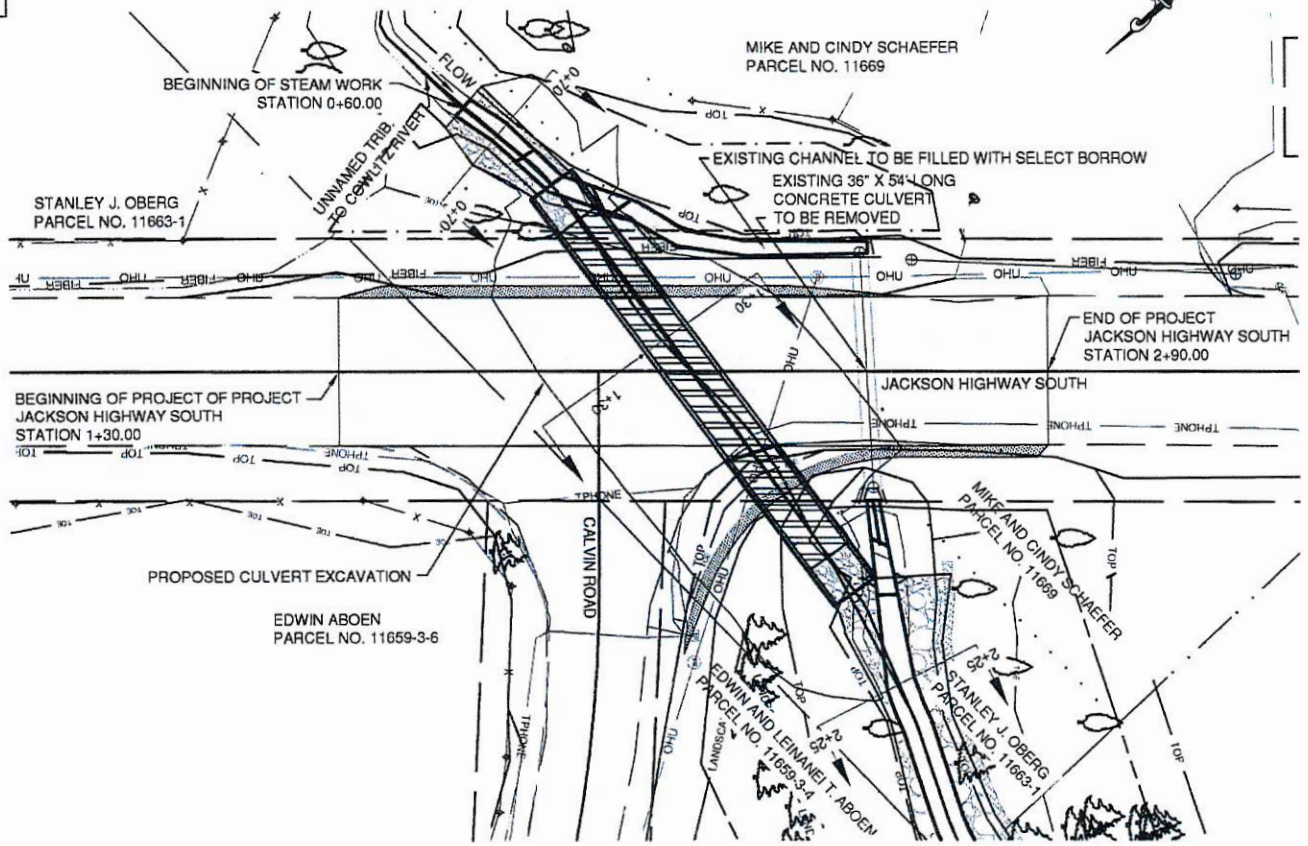
DATE: 04/10/2018 revised: 5/30/19

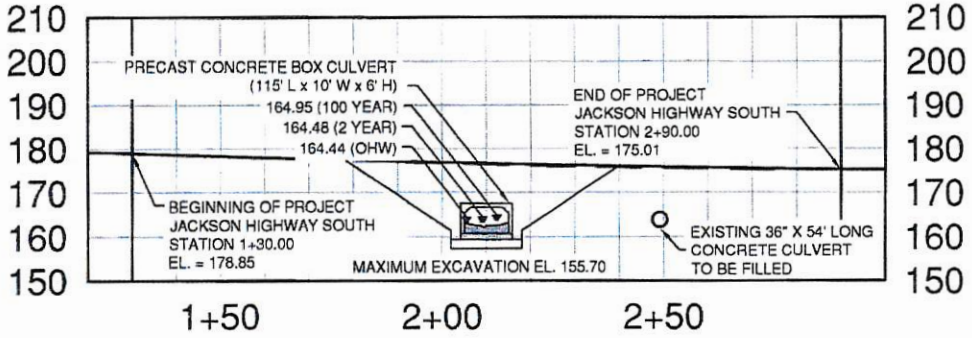
Lewis County
Department of Public Works

(NAVD) 88

TWP. 11 N. RGE. 2W. W.M.

1" = 40' HOR.
1" = 40' VERT.





REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 2 OF 10 DATE: 04/10/2018 rev. 5/30/19

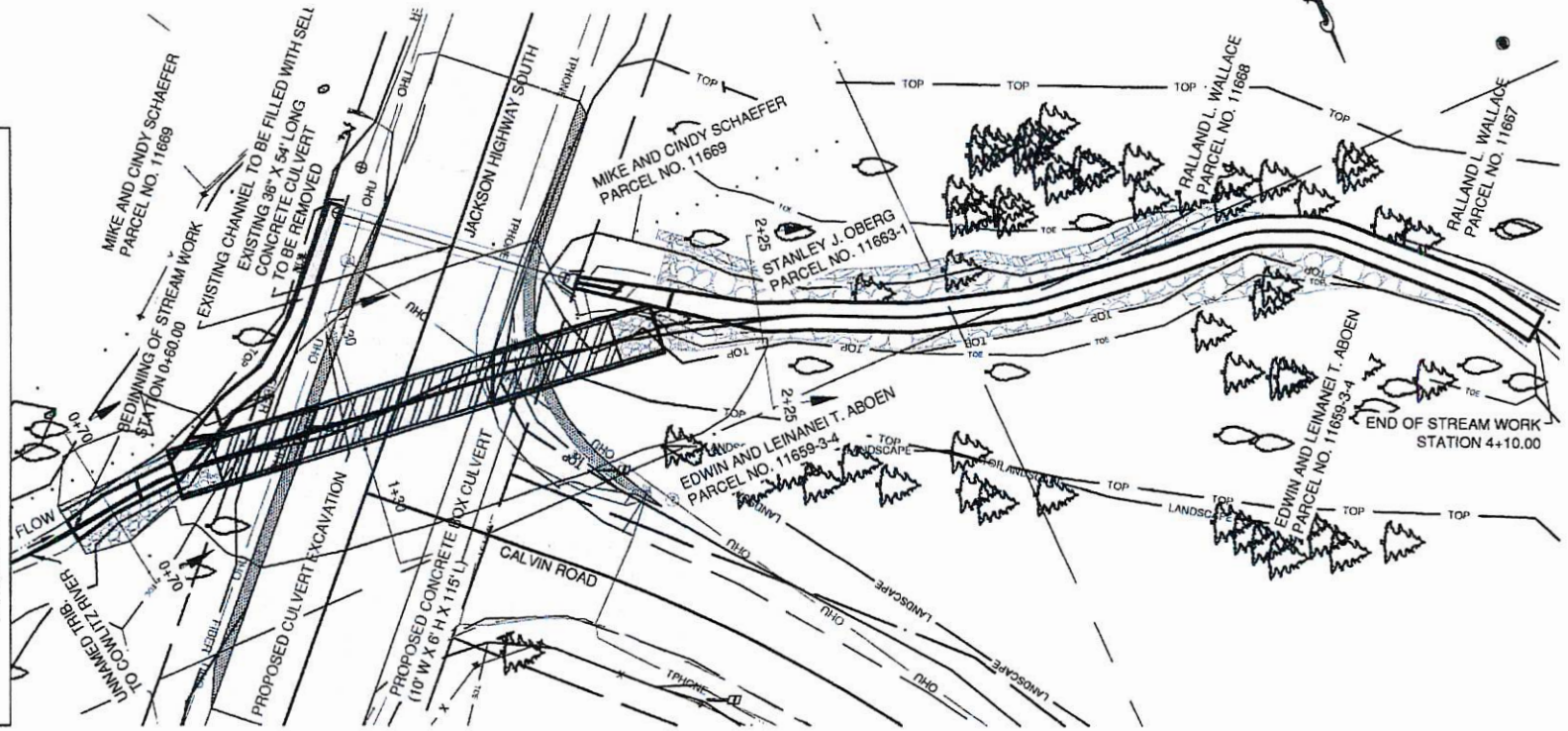
Department of Public Works

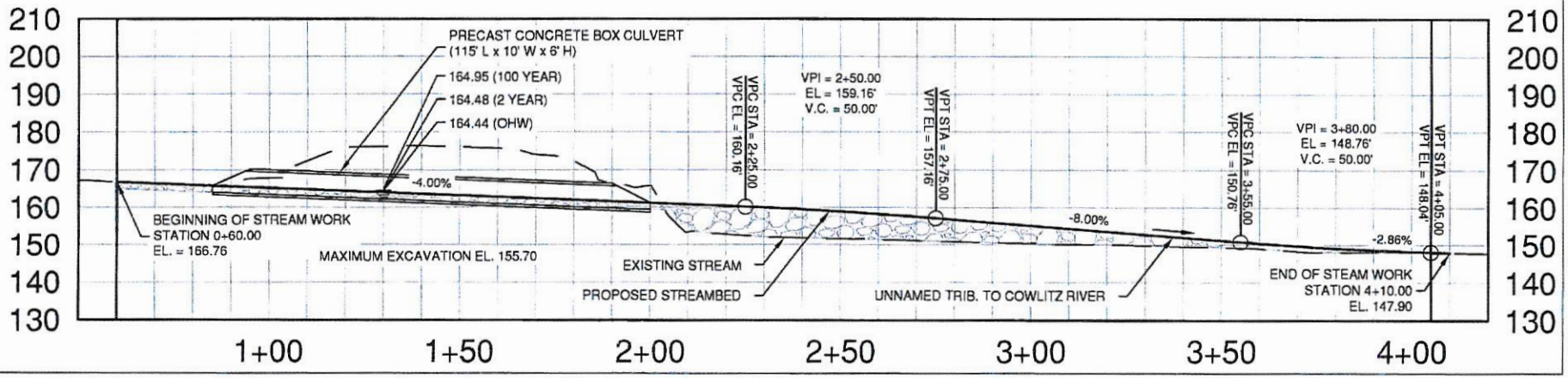
Lewis County

REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 3 OF 10 DATE: 04/10/2018 rev. 5/30/19

TWP. 11 N. RGE. 2W. W.M.

1" = 40' HOR.
1" = 40' VERT.

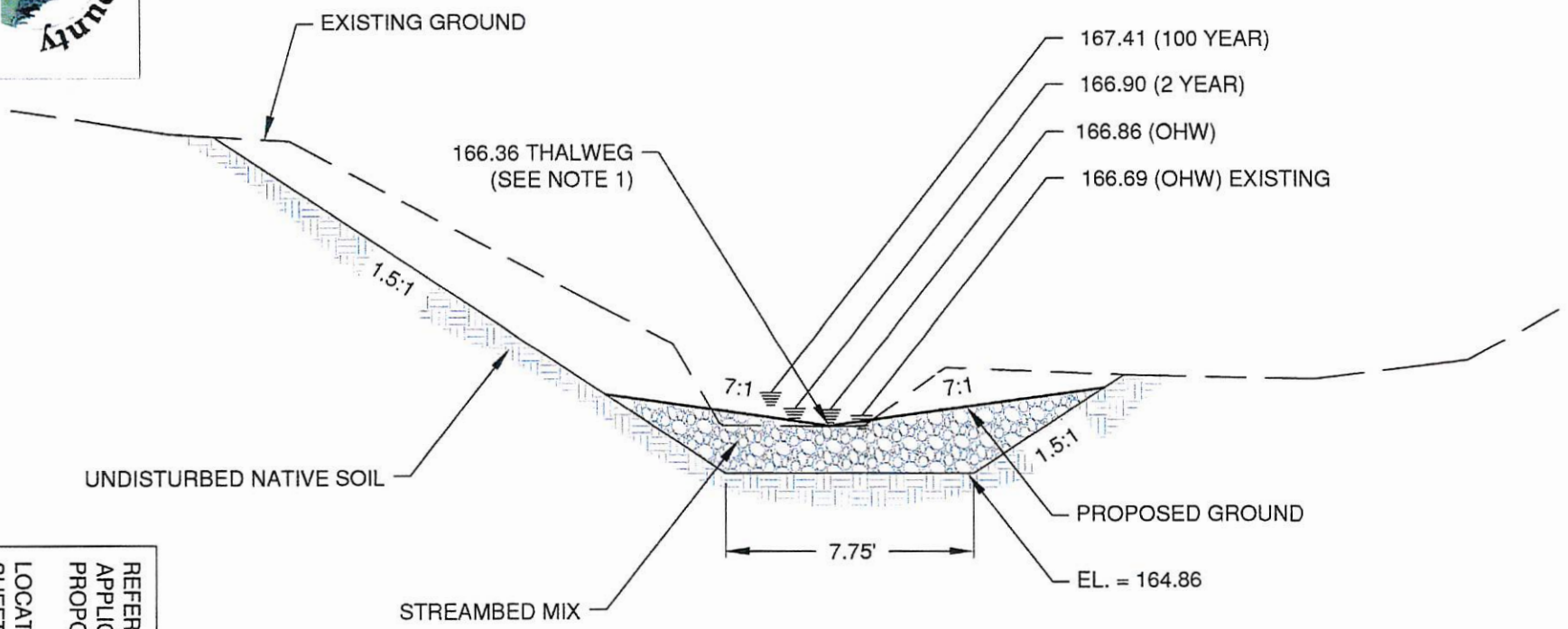




Lewis County
Department of Public Works

(NAVD) 88

1" = 5' HOR.
1" = 5' VERT.



STATION 0+70.00

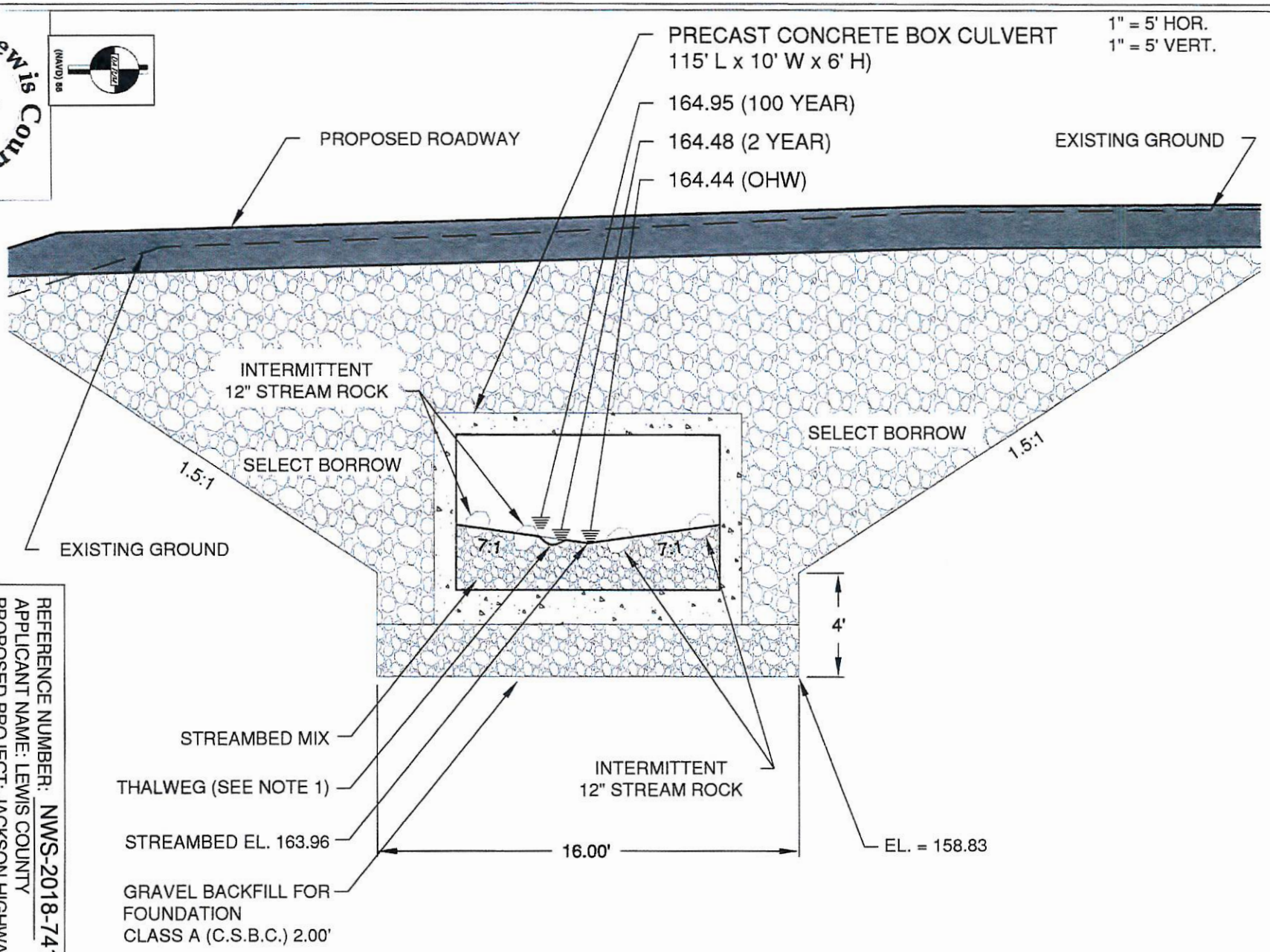
REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 4 OF 10 DATE: 04/10/2018 rev. 5/30/19

NOTES:

1. THALWEG WILL INCLUDE A MEANDERING 0.5' DEEP LOW FLOW NOTCH

Lewis County
Department of Public Works

(NAVD) 88



STATION 1+30.00

NOTES:

1. THALWEG WILL INCLUDE A MEANDERING 0.5' DEEP LOW FLOW NOTCH

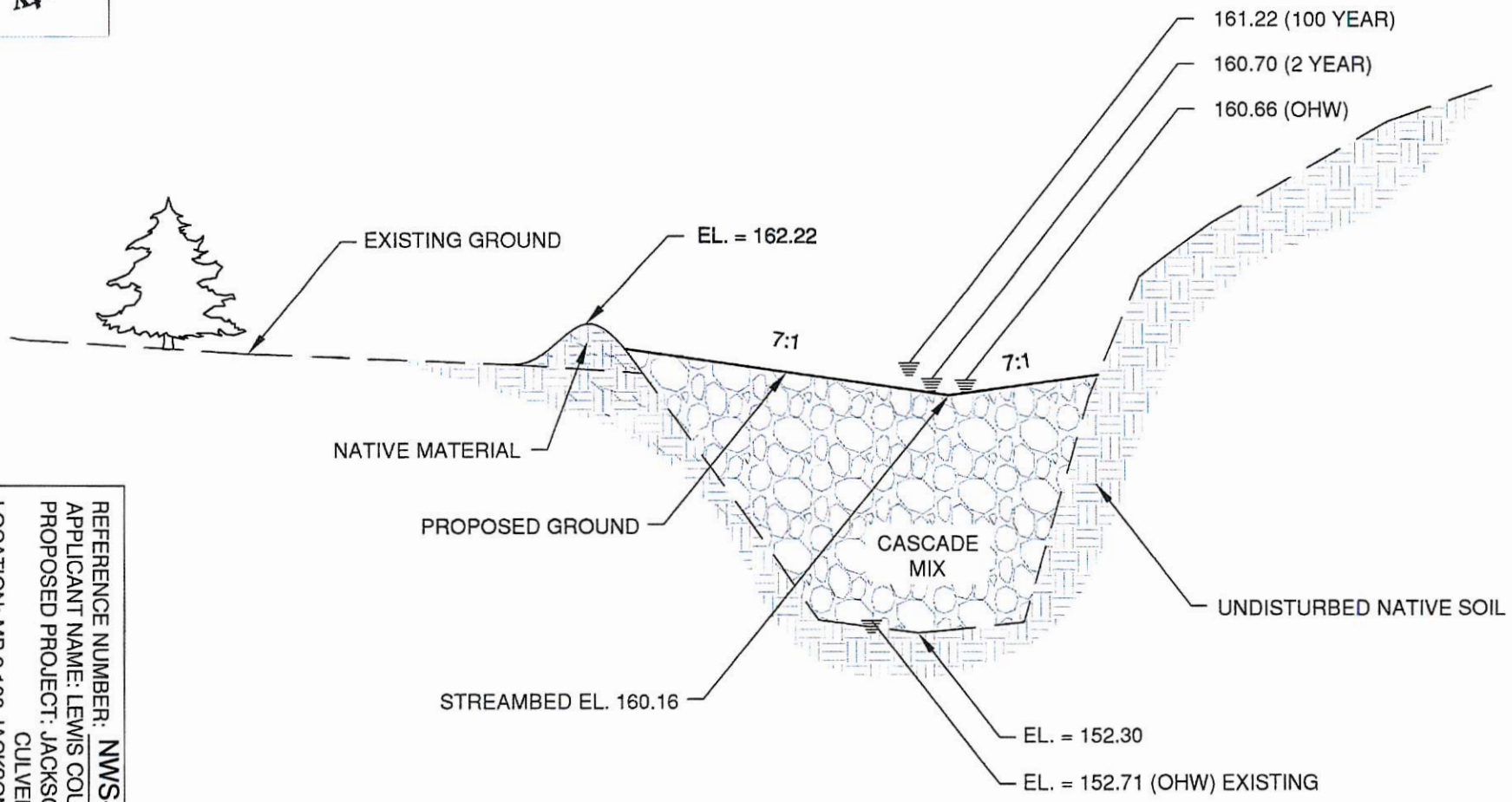
REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 5 OF 10 DATE: 04/10/2018 rev. 5/30/19

Department of Public Works

Lewis County

(NAVD) 88

1" = 5' HOR.
1" = 5' VERT.



STATION 2+25.00

REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 6 OF 10 DATE: 04/10/2018 rev. 5/30/19

NOTES:

1. THALWEG WILL INCLUDE A MEANDERING 0.5' DEEP LOW FLOW NOTCH

NOTES:

1. INSTALL COFFER DAM PER DETAIL ON SHEET 8 AS STAKED IN THE FIELD BY THE ENGINEER.
2. INSTALL SPILL CONTAINED PUMP SYSTEM FOR STREAM BYPASS.
3. INSTALL SILT FENCE AROUND STAGING AREA AS DIRECTED BY THE ENGINEER (NOT DEPICTED).
4. PUMP INTAKE SCREEN OVER ALL INTAKE AND OUTLET HOSES PER WDFW REQUIREMENTS.
5. FISH DIVERSION SCREEN UPSTREAM OF BYPASS INTAKE AND DOWNSTREAM OF BYPASS OUTLET PER HPA PROVISIONS.
6. INSTALL SPILL CONTAINED PUMP SYSTEM FOR DEWATERING. PUMP WORK WATER ALONG CALVIN ROAD NORTH DITCH APPROXIMATELY 200' IN GRASS LINED DITCH. WITH STRAW WATTLES EVERY 25'.
7. HIGH VISIBILITY FENCE AS DIRECTED BY THE ENGINEER (NOT DEPICTED).
8. QUARRY SPALLS AT STAGING AREA ENTRANCE (NOT DEPICTED).

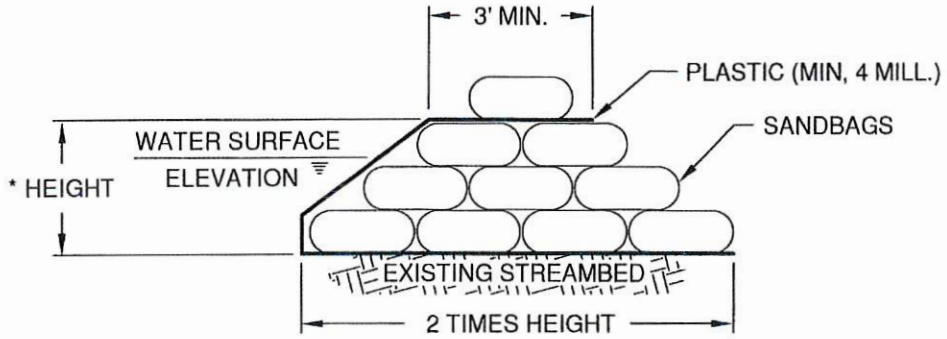
Lewis County
Department of Public Works

REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 7 OF 10 DATE: 04/10/2018 rev. 5/30/19

Planting Zone	Scientific Name	Common Name	Size of Plants (Material)	Planting Density (Spacing)	Proportion of Planting in Strata (%)	Number of Plants
Planting Zone A	*Pseudotsuga menziesii*	Douglas Fir	2 gallon container	12' on-center	40	22
area: 7,875 sq ft	*Thuja plicata*	Western Red Cedar	2 gallon container	12' on-center	20	11
	Acer macrophyllum	Big-Leaf Maple	2 gallon container	12' on-center	40	22
	Symphoricarpos albus	Common Snowberry	1 gallon container	5' on-center	35	107
	Corylus cornuta	Beaked Hazelnut	1 gallon container	5' on-center	15	41
	Rubus parviflorus	Thimbleberry	1 gallon container	5' on-center	35	107
	Holodiscus discolor	Oceanspray	1 gallon container	5' on-center	15	41
Planting Zone B	*Thuja plicata*	Western Red Cedar	2 gallon container	12' on-center	50	1
area 380 sq ft	*Acer macrophyllum*	Big-Leaf Maple	2 gallon container	12' on-center	50	1
	Acer circinatum	Vine Maple	1 gallon container	5' on-center	35	5
	Sambucus racemosa	Red Elderberry	1 gallon container	5' on-center	10	0
	Oemleria cerasiformis	Indian Plum	1 gallon container	5' on-center	20	2
	Symphoricarpos albus	Common Snowberry	1 gallon container	5' on-center	35	5

Lewis County
Department of Public Works

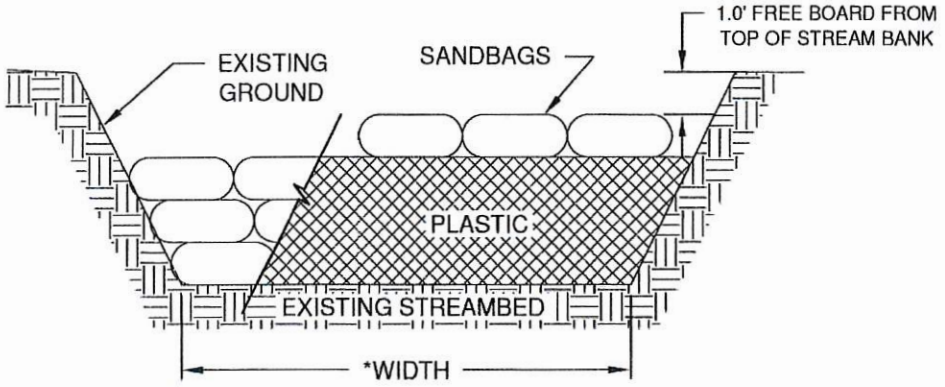
REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 8 OF 10 DATE: 04/10/2018 rev. 5/30/19



* HEIGHT OF COFFER DAM SHALL BE DETERMINED BY THE WATER SURFACE ELEVATION AT THE TIME OF CONSTRUCTION.

NOTES:
1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
3. PROVIDE 1.0' FREEBOARD.

SIDE VIEW



* WIDTH OF COFFER DAM SHALL BE DETERMINED BY THE EXISTING BANK OF THE STREAM AT THE TIME OF CONSTRUCTION.

NOTES:
1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
3. PROVIDE 1.0' FREEBOARD.

FRONT VIEW

(NAVD) 88

Lewis County
Department of Public Works

COFFER DAM TYPICAL DETAIL

NOT TO SCALE

REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 9 OF 10 DATE: 04/10/2018 rev. 5/30/19

SUMMARY OF QUANTITIES

Culvert Replacement (Sta 0+60 to 4+10) Quantities Below OHWM

Select Borrow (Fill)	20 CY
Streambed Mix (Fill)	40 CY
Cascade Mix (Fill)	10 CY
Gravel Backfill for Foundation Class A (CSBC)	40 CY
Sandbags for Cofferdams (Temporary Fill)	20 CY
Total Fill Quantity Below OHWM	130 CY
Total Excavation Quantity Below OHWM	100 CY

Culvert Replacement (Sta 0+60 to 4+10) Quantities Above OHWM

Select Borrow (Fill)	2575 CY
Streambed Mix (Fill)	155 CY
Cascade Mix (Fill)	445 CY
Gravel Backfill for Foundation Class A (CSBC) (Fill)	185 CY
New Culvert (Fill)	200 CY
Roadway Material (Asphalt, CSTC, CSBC) (Fill)	200 CY
Native Material (Fill)	20 CY
Sandbags for Cofferdams (Temporary Fill)	20 CY
Total Fill Quantity Above OHWM	3800 CY
Total Excavation Above OHWM	3700 CY

Culvert Replacement (Sta 0+60 to 4+10) Project Quantities

Total of All Fill (From Items Above)	3930 CY
All Excavation (From Items Above)	3800 CY

CULVERT DESIGN

The proposed culvert was designed with the help and approval of Washington State Department of Fish and Wildlife and the departments 2013 Water Crossing Design Guidelines.

- Project replacing a failing 36" culvert placed by WSDOT in early 1900's under U.S. Hwy 99
- Culvert located 1800 feet and 90 vertical feet above 100 yr. FEMA flood plain
- County staff met with Fish and Wildlife and looked at options on site on 2-2-18
- 2-27-18 County Staff received written approval of design from WDFW after incorporating suggested changes from WDFW
- Bankfull width 5 ft.
- Watershed area .44 sq. miles
- AAP, in/yr. 42 in.
- Reach slope 3.25% upstream Jackson Highway South
- Q2 cfs 7
- Q100 cfs 51

Lewis County
Department of Public Works

REFERENCE NUMBER: NWS-2018-741
APPLICANT NAME: LEWIS COUNTY
PROPOSED PROJECT: JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT
LOCATION: MP 2.108 JACKSON HIGHWAY SOUTH
SHEET 10 OF 10 DATE: 04/10/2018 rev. 5/30/19

US Army Corps of Engineers ®
Seattle District

NATIONWIDE PERMIT 3
Terms and Conditions

Effective Date: March 19, 2017

In addition to any special condition that may be required on a case-by-case basis by the District Engineer, the following terms and conditions must be met, as applicable, for a Nationwide Permit (NWP) authorization to be valid in Washington State.

A. DESCRIPTION OF AUTHORIZED ACTIVITIES

Maintenance. (a) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure or fill, or of any currently serviceable structure or fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, requirements of other regulatory agencies, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. This NWP also authorizes the removal of previously authorized structures or fills. Any stream channel modification is limited to the minimum necessary for the repair, rehabilitation, or replacement of the structure or fill; such modifications, including the removal of material from the stream channel, must be immediately adjacent to the project. This NWP also authorizes the removal of accumulated sediment and debris within, and in the immediate vicinity of, the structure or fill. This NWP also authorizes the repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, this two-year limit may be waived by the district engineer, provided the permittee can demonstrate funding, contract, or other similar delays. (b) This NWP also authorizes the removal of accumulated sediments and debris outside the immediate vicinity of existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.). The removal of sediment is limited to the minimum necessary to restore the waterway in the vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend farther than 200 feet in any direction from the structure. This 200 foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures or to maintenance dredging to remove accumulated sediments from canals associated with outfall and intake structures. All dredged or excavated materials must be deposited and retained in an area that has no waters of the United States unless otherwise specifically approved by the district engineer under separate authorization. (c) This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction

sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After conducting the maintenance activity, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate. (d) This NWP does not authorize maintenance dredging for the primary purpose of navigation. This NWP does not authorize beach restoration. This NWP does not authorize new stream channelization or stream relocation projects. Notification: For activities authorized by paragraph (b) of this NWP, the permittee must submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 32). The pre-construction notification must include information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals. (Authorities: Section 10 of the Rivers and Harbors Act of 1899 and section 404 of the Clean Water Act (Sections 10 and 404)) Note: This NWP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Clean Water Act section 404(f) exemption for maintenance.

B. CORPS NATIONAL GENERAL CONDITIONS FOR ALL NWPs

To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation. (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States. (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. (b) If a proposed NWP

activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. The permittee shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status. (c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: http://www.rivers.gov/.

17. Tribal Rights. No NWP activity may cause more than minimal adverse effects on tribal rights (including treaty rights), protected tribal resources, or tribal lands.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless ESA section 7 consultation addressing the effects of the proposed activity has been completed. Direct effects are the immediate effects on listed species and critical habitat caused by the NWP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the NWP activity and are later in time, but still are reasonably certain to occur. (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed activity or that utilize the designated critical habitat that might be affected by the proposed activity. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have "no effect" on listed species or critical habitat, or until ESA section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps. (d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWPs. (e) Authorization of an activity by an NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word

"harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.
(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required. (g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at http://www.fws.gov/ or http://www.fws.gov/ipac and http://www.nmfs.noaa.gov/pr/species/esa/ respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied. (b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act. If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity

has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect. Where the non-Federal applicant has identified historic properties on which the activity might have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed. (d) For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps. (e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment. (a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. (b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal: (a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site). (b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal. (c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects. (d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in no more than minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)). (e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. Restored riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses. (f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation. (2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f)). (3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation. (4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer

before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). (5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided. (6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs. (h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management. (i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature: "When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

_____

(Transferee)

_____

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include: (a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions; (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and (c) The signature of the permittee certifying the completion of the activity and mitigation. The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. Activities Affecting Structures or Works Built by the United States. If an NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission is not authorized by NWP until the appropriate Corps office issues the section 408 permission to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will

request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures. For single and complete linear projects, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is

large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-Federal permittees, if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed activity or utilize the designated critical habitat that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-Federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

(10) For an activity that requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from the Corps office having jurisdiction over that USACE project.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is an NWP PCN and must include all of the applicable information required in paragraphs (b)(1) through (10) of this general condition. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals. (d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal. (2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed; (iii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iv) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes. (3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse

environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5. (4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act. (5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

District Engineer's Decision: 1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the individual crossings of waters of the United States to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51, 52, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects. For those NWPs that have a waivable 300 linear foot limit for losses of intermittent and ephemeral stream bed and a 1/2-acre limit (i.e., NWPs 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52), the loss of intermittent and ephemeral stream bed, plus any other losses of jurisdictional waters and wetlands, cannot exceed 1/2-acre. 2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by NWP and whether those cumulative adverse environmental effects are no more than minimal. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional or condition assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse environmental effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns. 3. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for NWP activities with smaller impacts, or

for impacts to other types of waters (e.g., streams). The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity are no more than minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are no more than minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer. 4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is required to comply with general conditions 18, 20, and/or 31, or to evaluate PCNs for activities authorized by NWPs 21, 49, and 50), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

Further Information: 1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP. 2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law. 3. NWPs do not grant any property rights or exclusive privileges. 4. NWPs do not authorize any injury to the property or rights of others. 5. NWPs do not authorize interference with any existing or proposed Federal project (see general condition 31).

C. CORPS SEATTLE DISTRICT REGIONAL GENERAL CONDITIONS: The following conditions apply to all NWPs for the Seattle District in Washington State, unless specified.

1. <u>Project Drawings</u>: Drawings must be submitted with pre-construction notification (PCN). Drawings must provide a clear understanding of the proposed project, and how waters of the U.S. will be affected. Drawings must be originals and not reduced copies of large-scale plans. Engineering drawings are not required. Existing and proposed site conditions (manmade and landscape features) must be drawn to scale.

2. Aquatic Resources Requiring Special Protection: Activities resulting in a loss of waters of the United States in mature forested wetlands, bogs and peatlands, aspen-dominated wetlands, alkali wetlands, vernal pools, camas prairie wetlands, estuarine wetlands, wetlands in coastal lagoons, and wetlands in dunal systems along the Washington coast cannot be authorized by a NWP, except by the following NWPs:

NWP 3 – Maintenance
NWP 20 – Response Operations for Oil and Hazardous Substances
NWP 32 – Completed Enforcement Actions
NWP 38 – Cleanup of Hazardous and Toxic Waste

In order to use one of the above-referenced NWPs in any of the aquatic resources requiring special protection, prospective permittees must submit a PCN to the Corps of Engineers (see NWP general condition 32) and obtain written authorization before commencing work.

3. New Bank Stabilization in Tidal Waters of Puget Sound: Activities involving new bank stabilization in tidal waters in Water Resource Inventory Areas (WRIAs) 8, 9, 10, 11 and 12 (within the areas identified on Figures 1a through 1e on Corps website) cannot be authorized by NWP.

4. Commencement Bay: The following NWPs may not be used to authorize activities located in the Commencement Bay Study Area (see Figure 2 on Corps website):

NWP 12 – Utility Line Activities (substations)
NWP 13 – Bank Stabilization
NWP 14 – Linear Transportation Projects
NWP 23 – Approved Categorical Exclusions
NWP 29 – Residential Developments
NWP 39 – Commercial and Institutional Developments
NWP 40 – Agricultural Activities
NWP 41 – Reshaping Existing Drainage Ditches
NWP 42 – Recreational Facilities
NWP 43 – Stormwater and Wastewater Management Facilities

5. Bank Stabilization: All projects including new or maintenance bank stabilization activities require PCN to the Corps of Engineers (see NWP general condition 32). For new bank stabilization projects only, the following must be submitted to the Corps of Engineers:

a. The cause of the erosion and the distance of any existing structures from the area(s) being stabilized.
b. The type and length of existing bank stabilization within 300 feet of the proposed project.
c. A description of current conditions and expected post-project conditions in the waterbody.
d. A statement describing how the project incorporates elements avoiding and minimizing adverse environmental effects to the aquatic environment and nearshore riparian area, including vegetation impacts in the waterbody.

In addition to a. through d., the results from any relevant geotechnical investigations can be submitted with the PCN if it describes current or expected conditions in the waterbody.

6. Crossings of Waters of the United States: Any project including installing, replacing, or modifying crossings of waters of the United States, such as culverts or bridges, requires submittal of a PCN to the Corps of Engineers (see NWP general condition 32). If a culvert is proposed to cross waters of the U.S. where salmonid species are present or could be present, the project must apply the stream simulation design method from the Washington Department of Fish and Wildlife located in the *Water Crossing Design Guidelines* (2013), or a design method which provides passage at all life stages at all flows where the salmonid species would naturally seek passage. If the stream simulation design method is not applied

for a culvert where salmonid species are present or could be present, the project proponent must provide a rationale in the PCN sufficient to establish one of the following:

a. The existence of extraordinary site conditions.
b. How the proposed design will provide equivalent or better fish passage and fisheries habitat benefits than the stream simulation design method.

If a culvert is proposed to cross waters of the U.S. where salmonid species are present or could be present, project proponents must provide a monitoring plan with the PCN that specifies how the proposed culvert will be assessed over a five-year period from the time of construction completion to ensure its effectiveness in providing passage at all life stages at all flows where the salmonid species would naturally seek passage. Culverts installed under emergency authorization that do not meet the above design criteria will be required to meet the above design criteria to receive an after-the-fact nationwide permit verification.

7. Stream Loss: A PCN is required for all activities that result in the loss of any linear feet of stream beds. No activity shall result in the loss of any linear feet of perennial stream beds or the loss of greater than 300 linear feet of intermittent and/or ephemeral stream beds. A stream may be rerouted if it is designed in a manner that maintains or restores hydrologic, ecologic, and geomorphic stream processes, provided there is not a reduction in the linear feet of stream bed. Streams include brooks, creeks, rivers, and historical waters of the U.S. that have been channelized into ditches. This condition does not apply to ditches constructed in uplands. Stream loss restrictions may be waived by the district engineer on a case-by-case basis provided the activities result in net increases of aquatic resource functions and services.

8. Mitigation: Pre-construction notification is required for any project that will result in permanent wetland losses that exceed 1,000 square feet. In addition to the requirements of General Condition 23 (Mitigation), compensatory mitigation at a minimum one-to-one ratio will be required for all permanent wetland losses that exceed 1,000 square feet. When a PCN is required for wetland losses less than 1,000 square feet, the Corps of Engineers may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation for impacts to marine waters, lakes, and streams will be determined on a case-by-case basis. If temporary impacts to waters of the U.S. exceed six months, the Corps of Engineers may require compensatory mitigation for temporal effects.

9. Magnuson-Stevens Fishery Conservation and Management Act – Essential Fish Habitat
Essential Fish Habitat (EFH) is defined as those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity. If EFH may be adversely affected by a proposed activity, the prospective permittee must provide a written EFH assessment with an analysis of the effects of the proposed action on EFH. The assessment must identify the type(s) of essential fish habitat (i.e., Pacific salmon, groundfish, and/or coastal-pelagic species) that may be affected. If the Corps of Engineers determines the project will adversely affect EFH, consultation with NOAA Fisheries will be required. Federal agencies should follow their own procedures for complying with the requirements of the Magnuson-Stevens Fishery Conservation and Management Act. If PCN is required for the proposed activity, Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements.

10. Forage Fish: For projects in forage fish spawning habitat, in-water work must occur within designated forage fish work windows, or when forage fish are not spawning. If working outside of a designated work window, or if forage fish work windows are closed year round, work may occur if the work window restriction is released for a period of time after a forage fish spawning survey has been conducted by a biologist approved by the Washington State Department of Fish and Wildlife (WDFW). Forage fish species with designated in-water work windows include Pacific sand lance (*Ammodytes hexapterus*), Pacific herring (*Clupea pallasi*), and surf smelt (*Hypomesus pretiosus*). This RGC does not

apply to NWP 48, *Commercial Shellfish Aquaculture Activities*. Please see specific regional conditions for NWP 48.

11. Notification of Permit Requirements: The permittee must provide a copy of the nationwide permit authorization letter, conditions, and permit drawings to all contractors and any other parties performing the authorized work prior to the commencement of any work in waters of the U.S. The permittee must ensure all appropriate contractors and any other parties performing the authorized work at the project site have read and understand relevant NWP conditions as well as plans, approvals, and documents referenced in the NWP letter. A copy of these documents must be maintained onsite throughout the duration of construction.

12. Construction Boundaries: Permittees must clearly mark all construction area boundaries before beginning work on projects that involve grading or placement of fill. Boundary markers and/or construction fencing must be maintained and clearly visible for the duration of construction. Permittees should avoid and minimize removal of native vegetation (including submerged aquatic vegetation) to the maximum extent possible.

13. Temporary Impacts and Site Restoration

a. Temporary impacts to waters of the U.S. must not exceed six months unless the prospective permittee requests and receives a waiver by the district engineer. Temporary impacts to waters of the U.S. must be identified in the PCN.
b. No more than 1/2 acre of waters of the U.S. may be temporarily filled unless the prospective permittee requests and receives a waiver from the district engineer (temporary fills do not affect specified limits for loss of waters associated with specific nationwide permits).
c. Native soils removed from waters of the U.S. for project construction should be stockpiled and used for site restoration. Restoration of temporarily disturbed areas must include returning the area to pre-project ground surface contours. If native soil is not available from the project site for restoration, suitable clean soil of the same textural class may be used. Other soils may be used only if identified in the PCN.
d. The permittee must revegetate disturbed areas with native plant species sufficient in number, spacing, and diversity to restore affected functions. A maintenance and monitoring plan commensurate with the impacts, may be required. Revegetation must begin as soon as site conditions allow within the same growing season as the disturbance unless the schedule is approved by the Corps of Engineers. Native plants removed from waters of the U.S. for project construction should be stockpiled and used for revegetation when feasible. Temporary Erosion and Sediment Control measures must be removed as soon as the area has established vegetation sufficient to control erosion and sediment.
e. If the Corps determines the project will result in temporary impacts of submerged aquatic vegetation (SAV) that are more than minimal, a monitoring plan must be submitted. If recovery is not achieved by the end of the monitoring period, contingencies must be implemented, and additional monitoring will be required.

This RGC does not apply to NWP 48, *Commercial Shellfish Aquaculture Activities*. Please see specific regional conditions for NWP 48.

D. CORPS REGIONAL SPECIFIC CONDITIONS FOR THIS NWP: none

E. ECOLOGY 401 CERTIFICATION: GENERAL CONDITIONS

In addition to all the Corps National and Seattle Districts' Regional permit conditions, the following State General Section 401 Water Quality Certification (Section 401) conditions apply to all Nationwide Permits whether **certified** or **partially certified** in the State of Washington.

1. **For in-water construction activities**. Ecology Section 401 review is required for projects or

activities authorized under NWPs that will cause, or may be likely to cause or contribute to an exceedance of a State water quality standard (Chapter 173-201A WAC) or sediment management standard (Chapter 173-204 WAC). State water quality standards and sediment management standards are available on Ecology's website. Note: In-water activities include any activity within a wetland and/or activities below the ordinary high water mark (OHWM).

2. **Projects or Activities Discharging to Impaired Waters**. Ecology Section 401 review is required for projects or activities authorized under NWPs if the project or activity will occur in a 303(d) listed segment of a waterbody or upstream of a listed segment and may result in further exceedances of the specific listed parameter. To determine if your project or activity is in a 303(d) listed segment of a waterbody, visit Ecology's Water Quality Assessment webpage for maps and search tools.

3. **Application**. For projects or activities that will require Ecology Section 401 review, applicants must provide Ecology with a Joint Aquatic Resources Permit Application (JARPA) along with the documentation provided to the Corps, as described in National General Condition 32, Pre-Construction Notification, including, when applicable: (a) A description of the project, including site plans, project purpose, direct and indirect adverse environmental effects the project would cause, best management practices (BMPs), and any other Department of the Army or federal agency permits used or intended to be used to authorize any part of the proposed project or any related activity. (b) Drawings indicating the Ordinary High Water Mark (OHWM), delineation of special aquatic sites and other waters of the state. Wetland delineations must be prepared in accordance with the current method required by the Corps and shall include Ecology's Wetland Rating form. Wetland rating forms are subject to review and verification by Ecology staff. Guidance for determining the OHWM is available on Ecology's website. (c) A statement describing how the mitigation requirement will be satisfied. A conceptual or detailed mitigation or restoration plan may be submitted. See State General Condition 5 for details on mitigation requirements. (d) Other applicable requirements of Corps Nationwide Permit General Condition 32, Corps Regional Conditions, or notification conditions of the applicable NWP. (e) Within 180 calendar days from receipt of applicable documents noted above **and** a copy of the final authorization letter from the Corps providing coverage for a proposed project or activity under the NWP Program Ecology will provide the applicant notice of whether an individual Section 401 will be required for the project. If Ecology fails to act within a year after receipt of **both** of these documents, Section 401 is presumed waived.

4. **Aquatic resources requiring special protection**. Certain aquatic resources are unique, difficult-to-replace components of the aquatic environment in Washington State. Activities that would affect these resources must be avoided to the greatest extent possible. Compensating for adverse impacts to high value aquatic resources is typically difficult, prohibitively expensive, and may not be possible in some landscape settings. Ecology Section 401 review is required for activities in or affecting the following aquatic resources (and not prohibited by Seattle District Regional General Condition): (a) Wetlands with special characteristics (as defined in the Washington State Wetland Rating Systems for western and eastern Washington, Ecology Publications #14-06-029 and #14-06-030):

- Estuarine wetlands.
- Wetlands of High Conservation Value.
- Bogs.
- Old-growth and mature forested wetlands.
- Wetlands in coastal lagoons.
- Interdunal wetlands.
- Vernal pools.
- Alkali wetlands.

(b) Fens, aspen-dominated wetlands, camas prairie wetlands. (c) Marine water with eelgrass (*Zostera marina*) beds (except for NWP 48). (d) Category I wetlands. (e) Category II wetlands with a habitat score $\geq$ 8 points. This State General Condition does not apply to the following Nationwide Permits:

NWP 20 – *Response Operations for Oil and Hazardous Substances,* NWP 32 – *Completed Enforcement Actions*

5. Mitigation. Applicants are required to show that they have followed the mitigation sequence and have first avoided and minimized impacts to aquatic resources wherever practicable. For projects requiring Ecology Section 401 review with unavoidable impacts to aquatics resources, adequate compensatory mitigation must be provided.

(a) Wetland mitigation plans submitted for Ecology review and approval shall be based on the most current guidance provided in Wetland Mitigation in Washington State, Parts 1 and 2 (available on Ecology's website) and shall, at a minimum, include the following:

i. A description of the measures taken to avoid and minimize impacts to wetlands and other waters of the U.S.

ii. The nature of the proposed impacts (i.e., acreage of wetlands and functions lost or degraded).

iii. The rationale for the mitigation site that was selected.

iv. The goals and objectives of the compensatory mitigation project.

v. How the mitigation project will be accomplished, including construction sequencing, best management practices to protect water quality, proposed performance standards for measuring success and the proposed buffer widths.

vi. How it will be maintained and monitored to assess progress towards goals and objectives. Monitoring will generally be required for a minimum of five years. For forested and scrub-shrub wetlands, 10 years of monitoring will often be necessary.

vii. How the compensatory mitigation site will be legally protected for the long term.

Refer to Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Ecology Publication #06-06-011b) and Selecting Wetland Mitigation Sites Using a Watershed Approach (Ecology Publications #09-06-032 (Western Washington) and #10-06-007 (Eastern Washington)) for guidance on selecting suitable mitigation sites and developing mitigation plans. Ecology encourages the use of alternative mitigation approaches, including credit/debit methodology, advance mitigation, and other programmatic approach such as mitigation banks and in-lieu fee programs. If you are interested in proposing use of an alternative mitigation approach, consult with the appropriate Ecology regional staff person. Information on alternative mitigation approaches is available on Ecology's website.

(b) Mitigation for other aquatic resource impacts will be determined on a case-by-case basis.

6. Temporary Fills. Ecology Section 401 review is required for any project or activity with temporary fill in wetlands or other waters of the state for more than 90 days, unless the applicant has received written approval from Ecology. Note: This State General Condition does not apply to projects or activities authorized under NWP 33, *Temporary Construction, Access, and Dewatering*

7. Stormwater pollution prevention: All projects that involve land disturbance or impervious surfaces must implement stormwater pollution prevention or control measures to avoid discharge of pollutants in stormwater runoff to waters of the State.

(a) For land disturbances during construction, the applicant must obtain and implement permits (e.g., Construction Stormwater General Permit) where required and follow Ecology's current stormwater manual.

(b) Following construction, prevention or treatment of on-going stormwater runoff from impervious surfaces shall be provided.

Ecology's Stormwater Management and Design Manuals and stormwater permit information are available on Ecology's website.

8. State Section 401 Review for PCNs not receiving 45-day response from the Seattle District. In the event the Seattle District Corps does not issue a NWP authorization letter within 45 calendar days of receipt of a **complete** pre-construction notification, the applicant must contact Ecology for Section 401 review prior to commencing work.

F. ECOLOGY 401 CERTIFICATION: SPECIFIC CONDITIONS FOR THIS NWP:

Certified subject to conditions. Ecology Section 401 review is required for projects or activities authorized under this NWP if:

1. The project or activities are below the Ordinary High Water Mark (OHWM) with new work being proposed outside the original footprint.

2. The proposed project or activity increases the original footprint of the structure by more than 1/10th acre in wetlands.

3. The project or activity includes adding a new structure, such as a weir, flap gate/tide gate, or culvert to the site.

G. COASTAL ZONE MANAGEMENT CONSISTENCY RESPONSE FOR THIS NWP:
(Note: This is only applies in the following counties: Clallam, Grays Harbor, Island, Jefferson, King, Kitsap, Mason, Pacific, Pierce, San Juan, Skagit, Snohomish, Thurston, Wahkiakum and Whatcom)

Response: Ecology concurs that this NWP is consistent with the CZMP, subject to the following condition: An individual Coastal Zone Management Consistency Determination is required for project or activities under this NWP if State Section 401 review is required.

General Conditions: For Non-Federal Permittees
1. Necessary Data and Information. A Coastal Zone Management Program "Certification of Consistency" form is required for projects located within a coastal county. "Certification of Consistency" forms are available on Ecology's website. The form shall include a description of the proposed project or activity and evidence of compliance with the applicable enforceable policies of the Washington Coastal Zone Management Program (CZMP). Also, a map of the site location is required.
2. Timing. Within 6 months from receipt of the necessary data and information, Ecology will provide a federal consistency determination for the proposed project or activity. If Ecology fails to act within the 6 month period, concurrence with the CZMP is presumed.

General Conditions: For Federal Permittees (Agencies)
1. Necessary Data and Information. Federal agencies shall submit the determination, information, and analysis required by 15 CFR 930.39 to obtain a federal consistency determination.
2. Timing. Within 60 days from receipt of the necessary data and information, Ecology will provide a federal consistency determination for the proposed project or activity. If Ecology fails to act within the 60 day period, concurrence with the CZMP is presumed.

US Army Corps of Engineers ®
Seattle District

CERTIFICATE OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT

Permit Number: NWS-2018-741

Name of Permittee: Lewis County Public Works

Date of Verification: December 17, 2019

Upon completion of the activity authorized by this permit, please check the applicable boxes below, date and sign this certification, and return it to the following address:

Department of the Army
U.S. Army Corps of Engineers
Seattle District, Regulatory Branch
Post Office Box 3755
Seattle, Washington 98124-3755

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of your authorization, your permit may be subject to suspension, modification, or revocation.

☐ The work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of this permit.

Date work complete: _____

☐ Photographs and as-built drawings of the authorized work (OPTIONAL, unless required as a Special Condition of the permit).

☐ If applicable, the mitigation required (e.g., construction and plantings) in the above-referenced permit has been completed in accordance with the terms and conditions of this permit (not including future monitoring).

Date work complete: _____ ☐ N/A

☐ Photographs and as-built drawings of the mitigation (OPTIONAL, unless required as a Special Condition of the permit).

☐ Provide phone number/email for scheduling site visits (must have legal authority to grant property access).

Printed Name: _____

Phone Number: _____ Email: _____

Printed Name: _____

Signature: _____

Date: _____

Report for Mitigation Work Completion

Immediately upon completion of the plantings, submit this form to:
U.S. Army Corps of Engineers, Regulatory Branch, P.O. Box 3755, Seattle, WA 98124-3755

Corps' Reference Number: _____

Date the Corps Issued Your Permit: _____

Date this Report is Due: _____

Your Name: _____

Your Address: _____

Your City/State/Zip Code: _____

Your Phone Number and Email: _____

You must attach to this form: 1) As-built drawing of planting area(s), and

2) Photographs of the planting area(s)

Date mitigation was completed: _____

Describe any changes from the approved mitigation plan:

Name of Species You Planted	Number Planted
Total Planted:	

If there are multiple sites, fill out a separate table for each planting area.

LEWIS COUNTY – STATE ENVIRONMENTAL POLICY ACT
THRESHOLD DETERMINATION
DETERMINATION OF NONSIGNIFICANCE (DNS)

LEAD AGENCY: Lewis County – Community Development Department

PROPONENT: Lewis County – Public Works (Ann Weckback)

FILE NUMBERS: SEP19-0017, LDR19-0036 & G19-00028

DESCRIPTION OF PROPOSAL: Replace existing 36 inch diameter 54 foot in length precast concrete culvert with a 10 foot wide, 6 foot tall and 115 foot long box culvert. Additional construction will include regrading of 235 feet of stream channel outside of the culvert and placement of streambed mix and cascade mix.

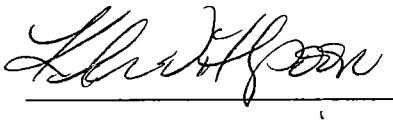
LOCATION OF PROPOSAL: The project is located on Jackson Highway South (Mile Post 2.108 and the intersection of Calvin Road, south of the City of Toledo in Lewis County, WA– Section 19, Township 11 N, Range 01 W, WM within County Road Right-of-Way and on parcel numbers 011669000000, 011663001000, 011688000000, 011667000000 & 011659003004.

THRESHOLD DETERMINATION:
The lead agency for this proposal has determined that it does not have a probable, significant adverse impact on the environment. An environmental impact statement (EIS) is NOT required under RCW 43.21C.030(2)(c). This decision was made after review by Lewis County of a completed environmental checklist and other information on file with this agency and such information is adopted herein by reference. This information is available for public review upon request.

This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 14 days from the issue date below. Written comments may be submitted during the 14-day period.

Responsible Official: **Lee Napier, Director**
Lewis County Community Development
2025 NE Kresky Avenue
Chehalis, Washington 98532

Contact Person: **Karen Witherspoon, AICP, Senior Project Planner**



for Responsible Official

Date of Issue: **July 16, 2019**

*This SEPA determination may be appealed in writing to the Lewis County Hearings Examiner until 4 pm on **August 6, 2019** at the Lewis County Community Development Permit Center. Appellants should be prepared to make **specific factual objections**. The appeal procedure is established in Lewis County Code (LCC) Section 17.110.130 and LCC Section 2.25.130. The administrative appeal fee is established by Resolution No. 18-349 of the Board of County Commissioners.*

Washington Department of
Fish & Wildlife
PO Box 43234
Olympia, WA 98504-3234
(360) 902-2200

HYDRAULIC PROJECT APPROVAL

Issued Date: October 03, 2019
Project End Date: October 03, 2022

Permit Number: 2019-5-98+01
FPA/Public Notice Number: N/A
Application ID: 19333

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Lewis County Public Works ATTENTION: Ann Weckback 2025 NE Kresky Ave Chehalis, WA 98532-2308	

Project Name: Jackson Highway South Culvert Replacement – CRP 2167C

Project Description: Lewis County Public Works is proposing to replace an existing 36 inch by 54 foot precast concrete culvert with 10 foot wide by 6 foot tall box culvert, 115 feet in length. Additional construction will include the regrade of approximately 235 feet of the channel, outside the culvert, and placement of streambed mix and cascade mix. The constructed stream channel will have an 8% grade throughout, eliminating the existing 8 foot drop. Upstream of the culvert the stream will be regraded to have an approximately 8 foot wide channel bottom with one and half to one slopes tying into existing ground. Downstream from the culvert, cascade mix will be added to a maximum depth of approximately 8.5 feet providing a smooth transition. Stream banks will have a 7:1 slope tying in to existing ground to the north and a constructed berm approximately 10 feet south of the thalweg.

PROVISIONS

TIMING - PLANS - INVASIVE SPECIES CONTROL

1. TIMING LIMITATION: You may begin the project on October 3, 2019 and you must complete the project by October 3, 2022. Work below the Ordinary High Water line shall only occur when stream is dry or extreme low flow, or between June 1 and September 30 of any calendar year of this permit.

2. APPROVED PLANS: You must accomplish the work per plans and specifications submitted with the application and approved by the Washington Department of Fish and Wildlife, except as modified by this Hydraulic Project Approval. You must have a copy of these plans available on site during all phases of the project construction.

3. INVASIVE SPECIES CONTROL: Follow Level 1 Decontamination protocol for low risk locations. Thoroughly remove visible dirt and organic debris from all equipment and gear (including drive mechanisms, wheels, tires, tracks, buckets and undercarriage) before arriving and leaving the job site to prevent the transport and introduction of invasive species. Properly dispose of any water and chemicals used to clean gear and equipment. For contaminated or high risk sites please refer to the Level 2 Decontamination protocol. You can find this and additional information in the Washington Department of Fish and Wildlife's "Invasive Species Management Protocols", available online at https://wdfw.wa.gov/species-habitats/invasive/prevention.

NOTIFICATION REQUIREMENTS

4. PRE-, DURING, AND POST-CONSTRUCTION NOTIFICATION: You, your agent, or contractor must contact the Washington Department of Fish and Wildlife by e-mail at HPAapplications@dfw.wa.gov; mail to Post Office Box 43234, Olympia, Washington 98504-3234; or fax to (360) 902-2946 at least three business days before starting work, one day before removing the temporary bypass and again within seven days after completing the work. The notification must include the permittee's name, project location, starting date for work or date the work was completed, and the permit number. The Washington Department of Fish and Wildlife may conduct inspections during and after construction;

however, the Washington Department of Fish and Wildlife will notify you or your agent before conducting the inspection.

5. FISH KILL/ WATER QUALITY PROBLEM NOTIFICATION: If a fish kill occurs or fish are observed in distress at the job site, immediately stop all activities causing harm. Immediately notify the Washington Department of Fish and Wildlife of the problem. If the likely cause of the fish kill or fish distress is related to water quality, also notify the Washington Military Department Emergency Management Division at 1-800-258-5990. Activities related to the fish kill or fish distress must not resume until the Washington Department of Fish and Wildlife gives approval. The Washington Department of Fish and Wildlife may require additional measures to mitigate impacts.

STAGING, JOB SITE ACCESS, AND EQUIPMENT

6. Establish staging areas (used for equipment storage, vehicle storage, fueling, servicing, and hazardous material storage) in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state.

7. Use existing roadways or travel paths.

8. Clearly mark boundaries to establish the limit of work associated with site access and construction.

9. Limit the removal of native bankline vegetation to the minimum amount needed to construct the project.

10. Retain all natural habitat features on the bed or banks including large woody material and boulders. You may move these natural habitat features during construction but you must place them near the preproject location before leaving the job site.

11. Confine the use of equipment to the specific access and work corridor shown in the approved plans.

12. Equipment used for this project may operate waterward of the ordinary high water line, provided the drive mechanisms (wheels, tracks, tires, etc.) do not enter or operate waterward of the ordinary high water line.

13. Check equipment daily for leaks and complete any required repairs in an upland location before using the equipment in or near the water.

14. Use environmentally acceptable lubricants composed of biodegradable base oils such as vegetable oils, synthetic esters, and polyalkylene glycols in equipment operated in or near the water.

CONSTRUCTION-RELATED SEDIMENT, EROSION AND POLLUTION CONTAINMENT

15. Work in the dry watercourse (when no natural flow is occurring in the channel, or when flow is diverted around the job site).

16. Protect all disturbed areas from erosion. Maintain erosion and sediment control until all work and cleanup of the job site is complete.

17. All erosion control materials that will remain onsite must be composed of 100% biodegradable materials.

18. Straw used for erosion and sediment control, must be certified free of noxious weeds and their seeds.

19. Stop all hydraulic project activities except those needed to control erosion and siltation, if flow conditions arise that will result in erosion or siltation of waters of the state.

20. Prevent project contaminants, such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials, from entering or leaching into waters of the state.

21. Route construction water (wastewater) from the project to an upland area above the limits of anticipated floodwater. Remove fine sediment and other contaminants before discharging the construction water to waters of the state.

22. Deposit waste material from the project, such as construction debris, silt, excess dirt, or overburden, in an upland area above the limits of anticipated floodwater unless the material is approved by the Washington Department of Fish and Wildlife for reuse in the project.

23. Deposit all trash from the project at an appropriate upland disposal location.

CONSTRUCTION MATERIALS

24. Store all construction and deconstruction material in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state.

25. Do not stockpile construction material waterward of the ordinary high water line.

26. Use only clean, suitable material as fill material (no trash, debris, car bodies, tires, asphalt, concrete, etc.).

IN-WATER WORK AREA ISOLATION USING BLOCK NETS

27. Isolate fish from the work area by using block nets.

28. Install block nets at sites with reduced flow volume or velocity, uniform depth, and good accessibility.

29. Do not install block nets at sites with heavy vegetation, large cobble or boulders, undercut banks, or deep pools unless you can secure and maintain them.

30. Install block nets at an angle to the direction of flow (not perpendicular to the flow) to avoid entrapping fish in the nets.

31. After the first block net is secured at the upstream end, use a second block net to herd fish downstream and out of the project area.

32. Install a downstream block net if fish may reenter the work area from downstream.

33. To anchor block nets, place bags filled with clean round gravel along the bottom of the nets.

34. Secure block nets along both banks and the channel bottom to prevent failure from debris accumulation, high flows, and/or flanking.

35. To keep fish out of the job site, leave block nets in place until the work is complete and conditions are suitable for fish.

36. Check block nets at least three times a day for entangled fish and accumulated debris.

IN-WATER WORK AREA ISOLATION USING A TEMPORARY BYPASS

37. Isolate fish from the work area by using either a total or partial bypass to reroute the stream through a temporary channel or pipe.

38. Sequence the work to minimize the duration of dewatering.

39. Use the least-impacting feasible method to temporarily bypass water from the work area. Consider the physical characteristics of the site and the anticipated volume of water flowing through the work area.

40. During all phases of bypass installation and decommissioning, maintain flows downstream of the project site to ensure survival of all downstream fish.

41. If the bypass is a pumped diversion, once started it must run continuously until it is no longer necessary to bypass flows. This requires back-up pumps on-site and twenty-four-hour monitoring for overnight operation.

42. If the diversion inlet is a pump diversion in a fish-bearing stream, the pump intake structure must have a fish screen installed, operated, and maintained in accordance with RCW 77.57.010 and 77.57.070. Screen the pump intake with one of the following:
a) Perforated plate: 0.094 inch (maximum opening diameter);
b) Profile bar: 0.069 inch (maximum width opening); or
c) Woven wire: 0.087 inch (maximum opening in the narrow direction).
The minimum open area for all types of fish screens is twenty-seven percent. The screened intake facility must have enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Maintain fish

screens to prevent injury or entrapment of fish.

43. The fish screen must remain in place whenever water is withdrawn from the stream through the pump intake.

44. Remove fish screens on dewatering pumps in the isolated work area only after all fish are safe and excluded from the work area.

FISH LIFE REMOVAL

45. All persons participating in capture and removal must have training, knowledge, and skills in the safe handling of fish life.

46. If electrofishing is conducted, a person with electrofishing training must be on-site to conduct or direct all electrofishing activities.

47. Capture and safely move fish life from the work area to the nearest suitable free-flowing water.

CULVERT

48. Install and maintain the culvert to ensure unimpeded fish passage.

49. Establish the culvert invert elevation with reference point(s) or benchmark(s) created before to starting work on this project. Clearly mark and preserve the reference point(s) for post-project compliance. Before backfilling, confirm the invert elevation, as stated on the plans, relative to the reference points with at least a construction-grade leveling device (such as an optical auto-level or laser level).

50. The length of the culvert must not exceed 115 feet.

51. Set the stream simulation culvert at the same gradient as the prevailing stream gradient of 4 percent.

52. Countersink the stream simulation culvert a minimum of thirty percent and a maximum of fifty percent of the culvert rise, but not less than two feet.

53. Size streambed material to mimic the stream’s natural gradation as found in nearby reference channel reaches. Place a minimum of 12 inches deep of clean, rounded and well-graded (includes all size classes) material. Angular rock is not permitted within the channel or culvert.

54. The streambed must include a sinuous low-flow channel expected under common conditions in the reach and a high-flow bench on both sides of the culvert.

55. Protect structural fill associated with the culvert installation from erosion to the 100-year peak flow.

56. Approach material must be structurally stable and composed of material that if eroded into the water will not harm fish life.

57. The owner(s) must maintain the culvert to ensure it provides continued, unimpeded fish passage. If the culvert becomes a hindrance to fish passage, the owner must obtain an Hydraulic Project Approval and provide prompt repair.

DEMOBILIZATION AND CLEANUP

58. Upon completion of the project, restore the disturbed bed, banks, and riparian zone to preproject condition to the extent possible.

59. Completely remove any temporary fill before the end of the in-water timing window if the fill material could erode and deliver sediment-laden water into waters of the state.

60. To prevent fish from stranding, backfill trenches, depressions, and holes in the bed that may entrain fish during high water or wave action.

61. To minimize sediment delivery to the stream or stream channel, do not return in-stream flows to the work area until all in-channel work is completed and the bed and banks are stabilized.

62. Seed areas disturbed by construction activities with a native seed mix suitable for the site that has at least one quick-establishing plant species.

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63. Replace native riparian zone vegetation damaged or destroyed by construction with native trees and shrubs. Plant trees 10 feet on center, and shrubs five feet on center.

64. Upon completion of the project, remove all materials or equipment from the site and dispose of all excess spoils and waste materials in an upland area above the limits of anticipated floodwater.

65. Return water flow slowly to the in-water work area to prevent the downstream release of sediment laden water. If necessary, install silt fencing above the bypass outlet to capture sediment during re-watering of the channel.

66. Remove temporary erosion and sediment control methods after job site is stabilized or within three months of project completion, whichever is sooner.

LOCATION #1:	Site Name: Jackson Highway South Culvert Replacement – CRP 2167C Jackson Highway South MP 2.108, Toledo, WA 98591					
WORK START:	June 1, 2020			WORK END:	September 30, 2021	
WRIA		Waterbody:			Tributary to:	
26 - Cowlitz		Unknown Stream Number			Unknown	
1/4 SEC:	Section:	Township:	Range:	Latitude:	Longitude:	County:
SW 1/4	19	11 N	01 W	46.419848	-122.859824	Lewis
Location #1 Driving Directions						
From I-5 take exit 63. Turn east onto WA-505 E and continue for 4.3 miles. Turn right onto Jackson Highway South and continue for 2.108 miles until you reach destination.						

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW. Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person (s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

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Failure to comply with the provisions of this Hydraulic Project Approval could result in civil action against you, including, but not limited to, a stop work order or notice to comply, and/or a gross misdemeanor criminal charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued under RCW 77.55.021 are subject to additional restrictions, conditions, or revocation if the Department of Fish and Wildlife determines that changed conditions require such action. The person(s) to whom this Hydraulic Project Approval is issued has the right to appeal those decisions. Procedures for filing appeals are listed below.

MINOR MODIFICATIONS TO THIS HPA: You may request approval of minor modifications to the required work timing or to the plans and specifications approved in this HPA unless this is a General HPA. If this is a General HPA you must use the Major Modification process described below. Any approved minor modification will require issuance of a letter documenting the approval. A minor modification to the required work timing means any change to the work start or end dates of the current work season to enable project or work phase completion. Minor modifications will be approved only if spawning or incubating fish are not present within the vicinity of the project. You may request subsequent minor modifications to the required work timing. A minor modification of the plans and specifications means any changes in the materials, characteristics or construction of your project that does not alter the project's impact to fish life or habitat and does not require a change in the provisions of the HPA to mitigate the impacts of the modification. If you originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a minor modification through APPS. A link to APPS is at http://wdfw.wa.gov/licensing/hpa/. If you did not use APPS you must submit a written request that clearly indicates you are seeking a minor modification to an existing HPA. Written requests must include the name of the applicant, the name of the authorized agent if one is acting for the applicant, the APP ID number of the HPA, the date issued, the permitting biologist, the requested changes to the HPA, the reason for the requested change, the date of the request, and the requestor's signature. Send by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234, or by email to HPAapplications@dfw.wa.gov. You should allow up to 45 days for the department to process your request.

MAJOR MODIFICATIONS TO THIS HPA: You may request approval of major modifications to any aspect of your HPA. Any approved change other than a minor modification to your HPA will require issuance of a new HPA. If you originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a major modification through APPS. A link to APPS is at http://wdfw.wa.gov/licensing/hpa/. If you did not use APPS you must submit a written request that clearly indicates you are requesting a major modification to an existing HPA. Written requests must include the name of the applicant, the name of the authorized agent if one is acting for the applicant, the APP ID number of the HPA, the date issued, the permitting biologist, the requested changes to the HPA, the reason for the requested change, the date of the request, and the requestor's signature. Send your written request by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234. You may email your request for a major modification to HPAapplications@dfw.wa.gov. You should allow up to 45 days for the department to process your request.

APPEALS INFORMATION

HYDRAULIC PROJECT APPROVAL

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If you wish to appeal the issuance, denial, conditioning, or modification of a Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW) recommends that you first contact the department employee who issued or denied the HPA to discuss your concerns. Such a discussion may resolve your concerns without the need for further appeal action. If you proceed with an appeal, you may request an informal or formal appeal. WDFW encourages you to take advantage of the informal appeal process before initiating a formal appeal. The informal appeal process includes a review by department management of the HPA or denial and often resolves issues faster and with less legal complexity than the formal appeal process. If the informal appeal process does not resolve your concerns, you may advance your appeal to the formal process. You may contact the HPA Appeals Coordinator at (360) 902-2534 for more information.

A. INFORMAL APPEALS: WAC 220-660-460 is the rule describing how to request an informal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete informal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request an informal appeal of that action. You must send your request to WDFW by mail to the HPA Appeals Coordinator, Department of Fish and Wildlife, Habitat Program, PO Box 43234, Olympia, Washington 98504-3234; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. WDFW must receive your request within 30 days from the date you receive notice of the decision. If you agree, and you applied for the HPA, resolution of the appeal may be facilitated through an informal conference with the WDFW employee responsible for the decision and a supervisor. If a resolution is not reached through the informal conference, or you are not the person who applied for the HPA, the HPA Appeals Coordinator or designee may conduct an informal hearing or review and recommend a decision to the Director or designee. If you are not satisfied with the results of the informal appeal, you may file a request for a formal appeal.

B. FORMAL APPEALS: WAC 220-660-470 is the rule describing how to request a formal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete formal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request a formal appeal of that action. You must send your request for a formal appeal to the clerk of the Pollution Control Hearings Boards and serve a copy on WDFW within 30 days from the date you receive notice of the decision. You may serve WDFW by mail to the HPA Appeals Coordinator, Department of Fish and Wildlife, Habitat Program, PO Box 43234, Olympia, Washington 98504-3234; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, you may request a formal appeal within 30 days from the date you receive the Director's or designee's written decision in response to the informal appeal.

C. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS: If there is no timely request for an appeal, the WDFW action shall be final and unappealable.

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Habitat Biologist
Scott Brummer

Scott.Brummer@dfw.wa.gov
360-785-0472

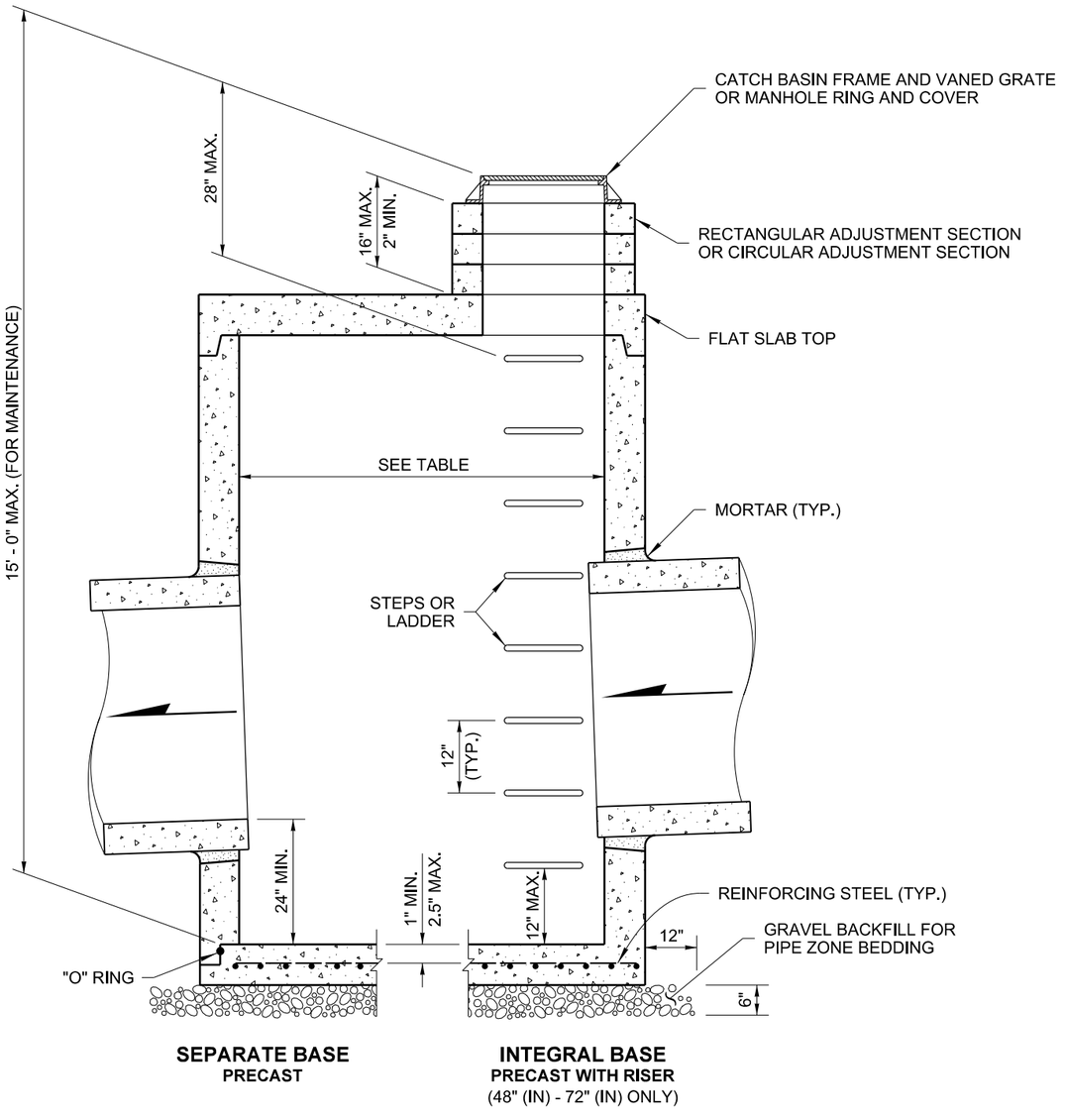
for Director
WDFW

APPENDIX E

STANDARD PLANS

CONTRACT PLANS

DRAWN BY: FERN LIDDELL



SEPARATE BASE
PRECAST

INTEGRAL BASE
PRECAST WITH RISER
(48" (IN) - 72" (IN) ONLY)

NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3.**

CATCH BASIN DIMENSIONS

CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES

CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ① PP ④	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

① Corrugated Polyethylene Storm Sewer Pipe
(See **Standard Specification Section 9-05.20)**

② **(See Standard Specification Section 9-05.12(1))**

③ **(See Standard Specification Section 9-05.12(2))**

④ Polypropylene Pipe **(See Standard Specification Section 9-05.24)**

JULIE HEILMAN
STATE OF WASHINGTON
41819
REGISTERED
PROFESSIONAL ENGINEER

CATCH BASIN TYPE 2

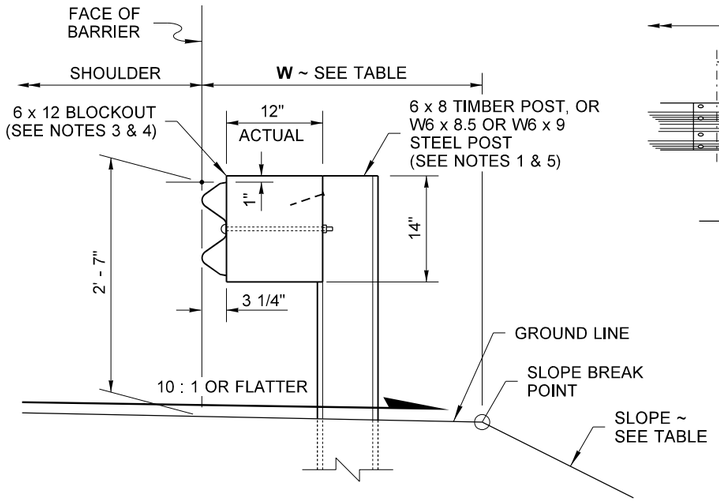
STANDARD PLAN B-10.20-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

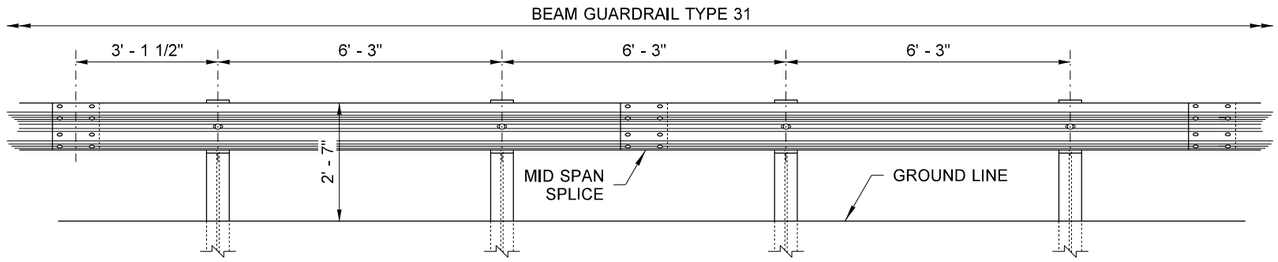
STATE DESIGN ENGINEER

Washington State Department of Transportation

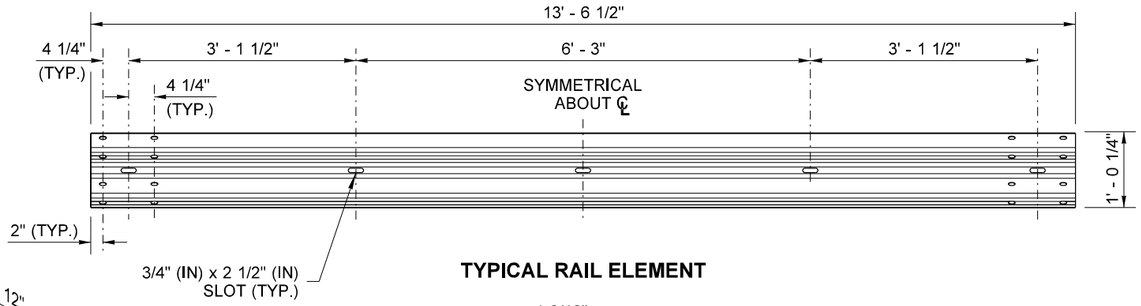


TYPICAL SECTION ~ WITHOUT CURB

(6' - 0" POSTS)



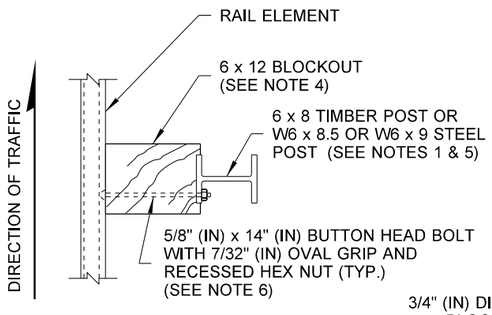
TYPICAL ELEVATION



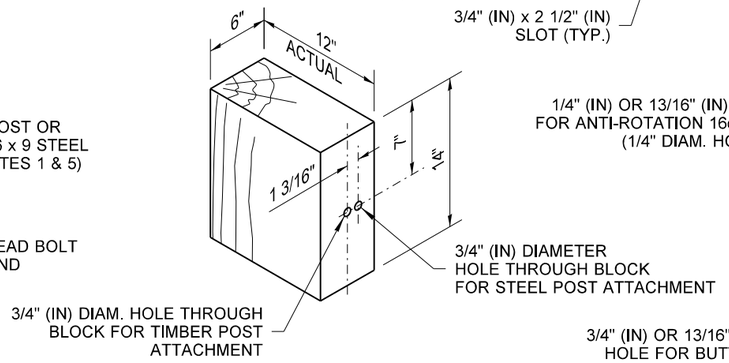
TYPICAL RAIL ELEMENT

NOTES

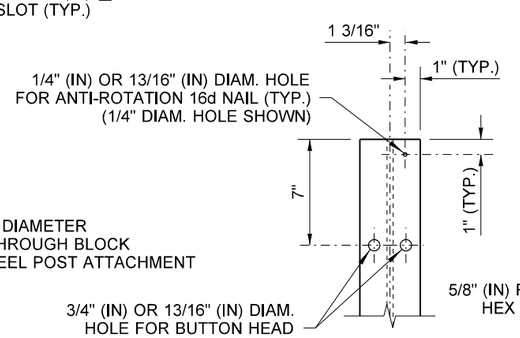
1. Refer to **Standard Plan C-1b** and **C-20.11** for additional details not shown on this plan.
2. Extend shoulder pavement to provide a base for the extruded curb. See Contract Plans for exceptions to distances shown.
3. Use a single block or combination of blocks (no more than two (2) to achieve the actual 12" (in) offset. See **Standard Specification, Section 9-16.3(2)**. Wood blocks shall be secured to the posts with anti-rotation nails. If combination blocks are used, the adjacent blocks shall be toenailed with two 16d galvanized nails to prevent block rotation.
4. Wood blocks are shown. Blocks of an approved alternative material may be used. See **Standard Specification, Section 9-16.3(2).**
5. All posts for any standard barrier run shall be of the same type: timber or steel.
6. Attach blockouts to steel posts using bolt holes on approaching traffic side of post web.



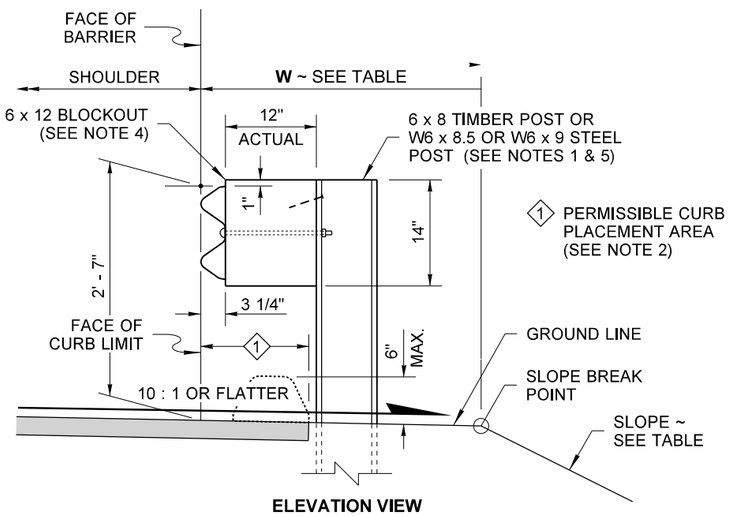
PLAN VIEW



WOOD BLOCK



STEEL POST

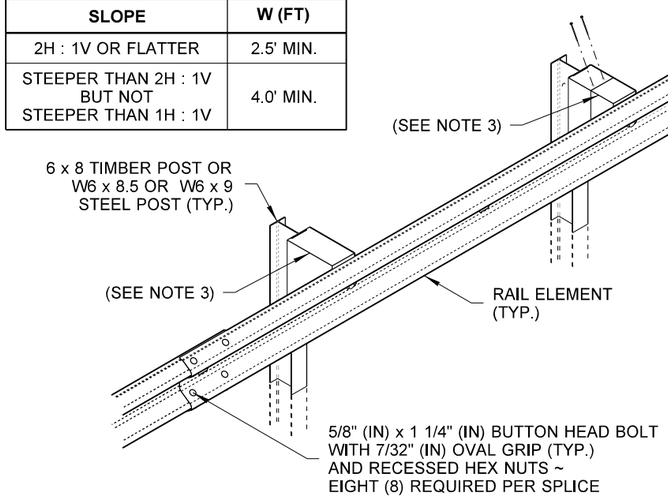


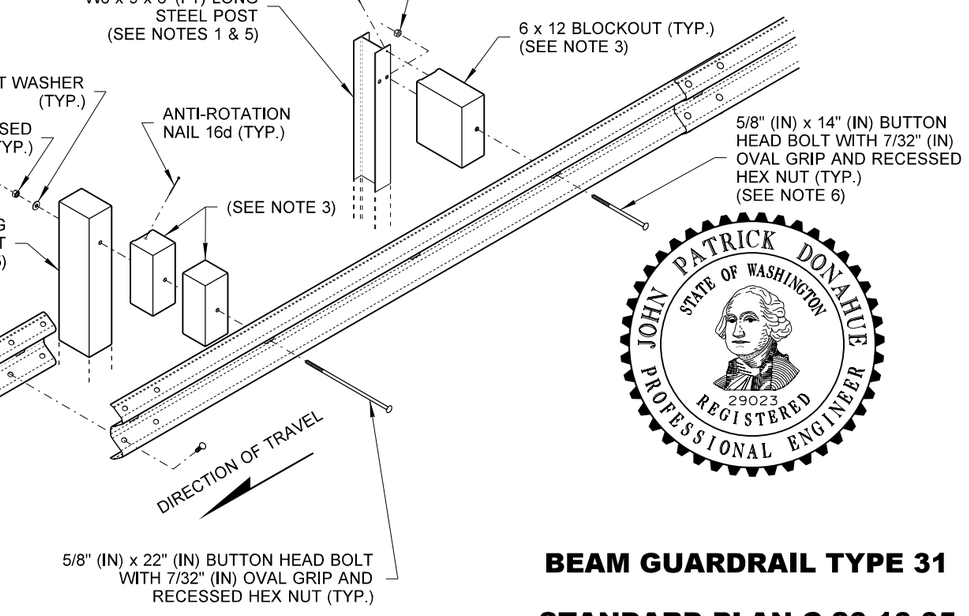
ELEVATION VIEW

TYPICAL SECTION ~ WITH CURB

(6' - 0" LONG POSTS)

SLOPE \ EMBANKMENT TABLE FOR STD. 6' POSTS	
SLOPE	**W (FT)**
2H : 1V OR FLATTER	2.5' MIN.
STEEPER THAN 2H : 1V BUT NOT STEEPER THAN 1H : 1V	4.0' MIN.





ISOMETRIC VIEW

BEAM GUARDRAIL TYPE 31

STANDARD PLAN C-20.10-05

SHEET 1 OF 1 SHEET

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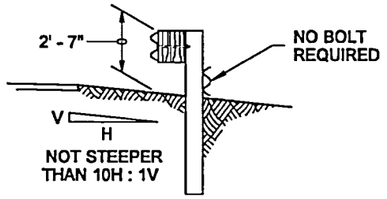

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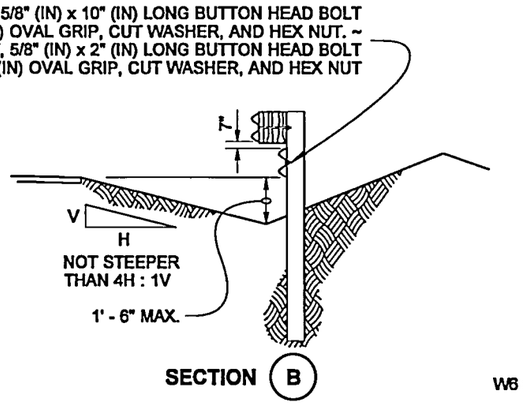

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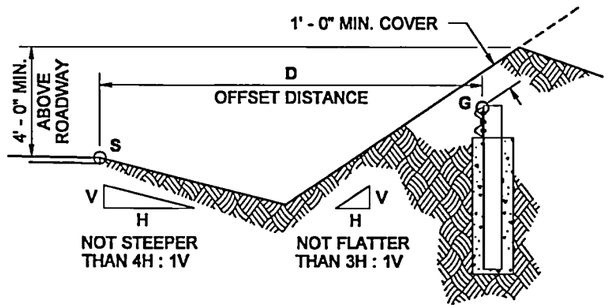
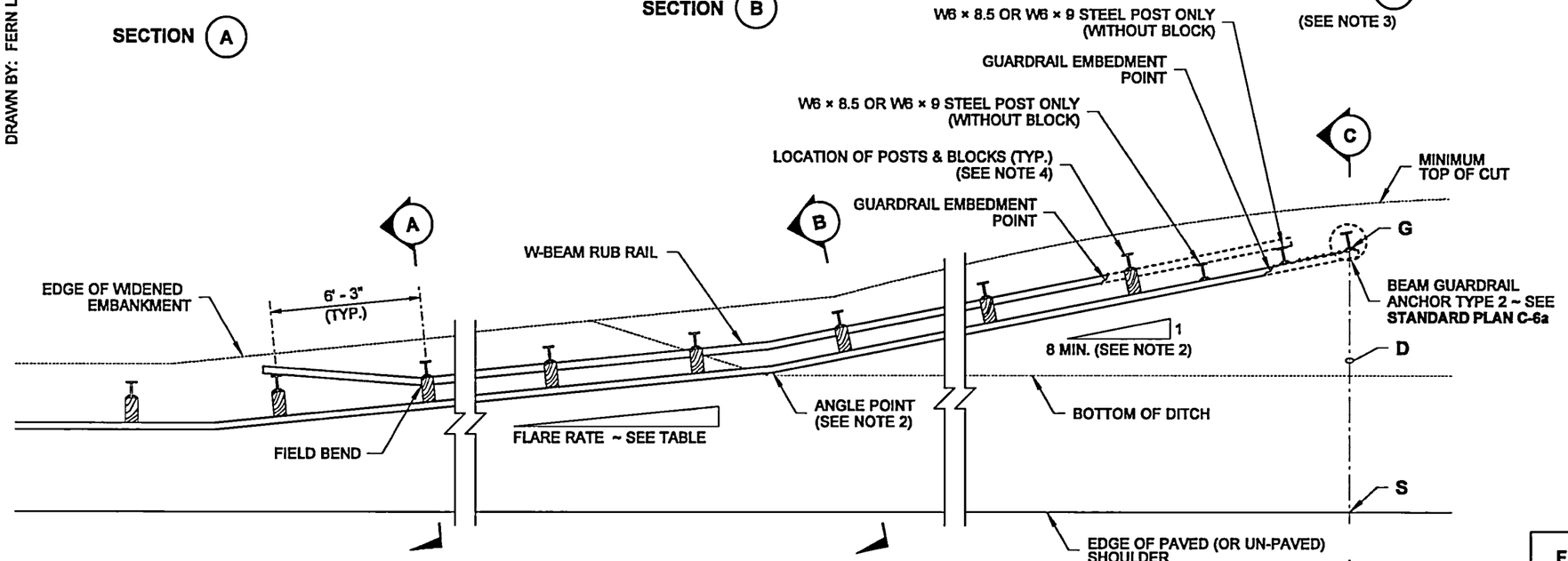
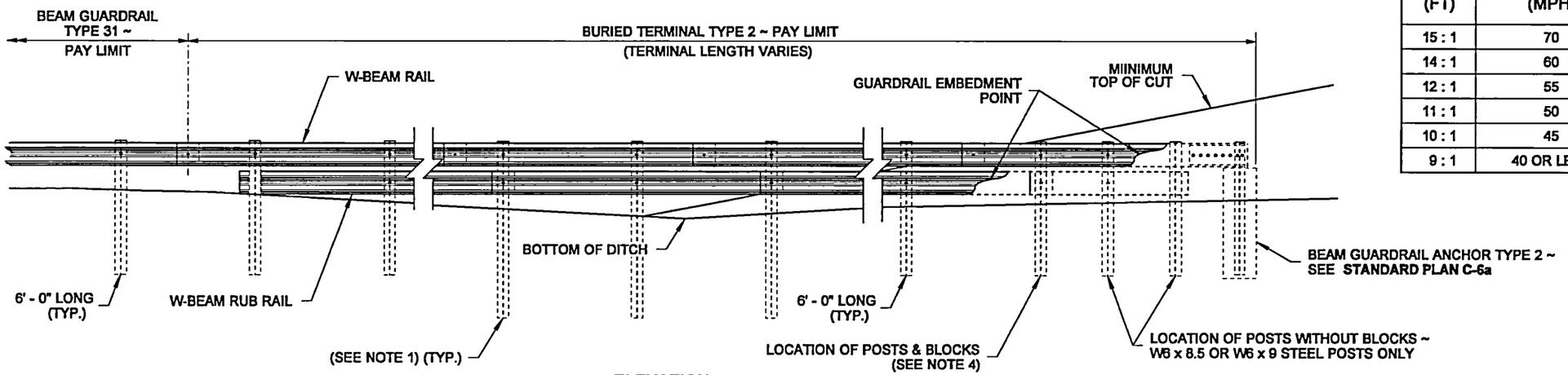


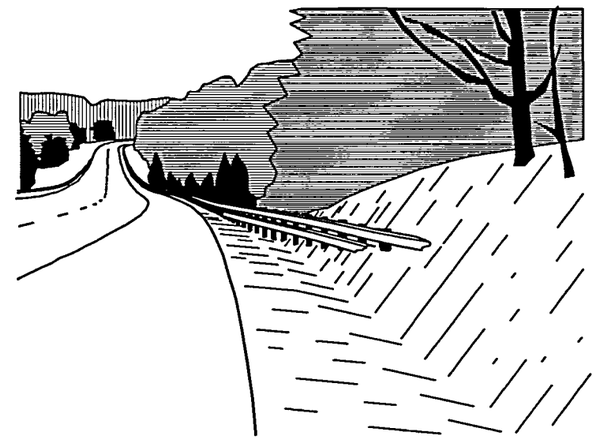
SECTION (C)
(SEE NOTE 3)



PLAN



ELEVATION
(PROFILE ALONG RAIL)



PERSPECTIVE

NOTES

1. Posts installed on shoulder slopes steeper than 10H : 1V shall be 8' (ft) long.
2. The flare rate of the guardrail may be increased after crossing the ditch bottom to shorten the length of the terminal.
3. Determine the height of the W-Beam at the Anchor **(G)** by first calculating the perpendicular offset distance **(D)** from the edge of shoulder **(S)** to the Anchor (on station). Multiply that distance by 0.1, then subtract the product from the elevation of the same point **(S)** on the edge of shoulder used to obtain the offset distance (at the same station). Add Beam Guardrail design height (31" (in)) to that remainder for a sum that equals the elevation of the top of the W-Beam at the Anchor.

   Refer to SECTION "C":

   $$\text{Elevation}_G = (\text{Elevation}_S - D \times (0.1)) + 31$$

4. Timber or steel post. Steel post shown.

FLARE RATE TABLE	
RATE (FT)	POSTED SPEED (MPH)
15 : 1	70
14 : 1	60
12 : 1	55
11 : 1	50
10 : 1	45
9 : 1	40 OR LESS

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BEAM GUARDRAIL TYPE 31 ~ BURIED TERMINAL TYPE 2

STANDARD PLAN C-22.16-06

SHEET 1 OF 1 SHEET

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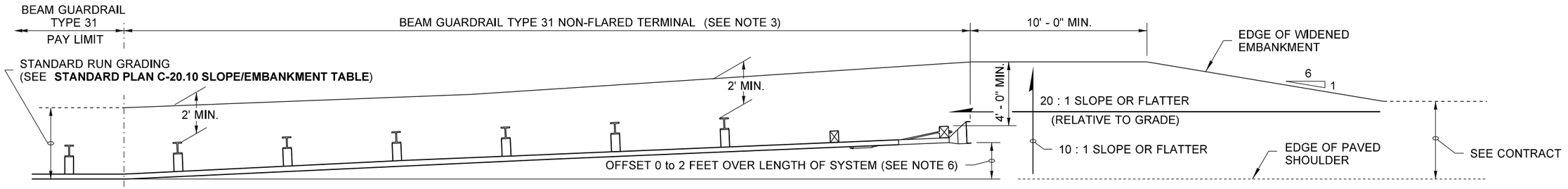
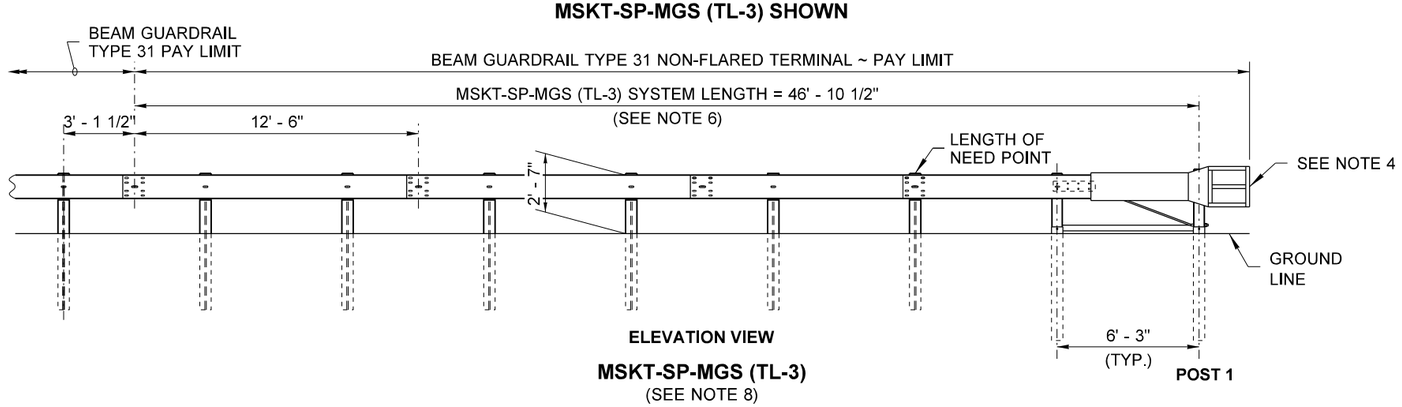


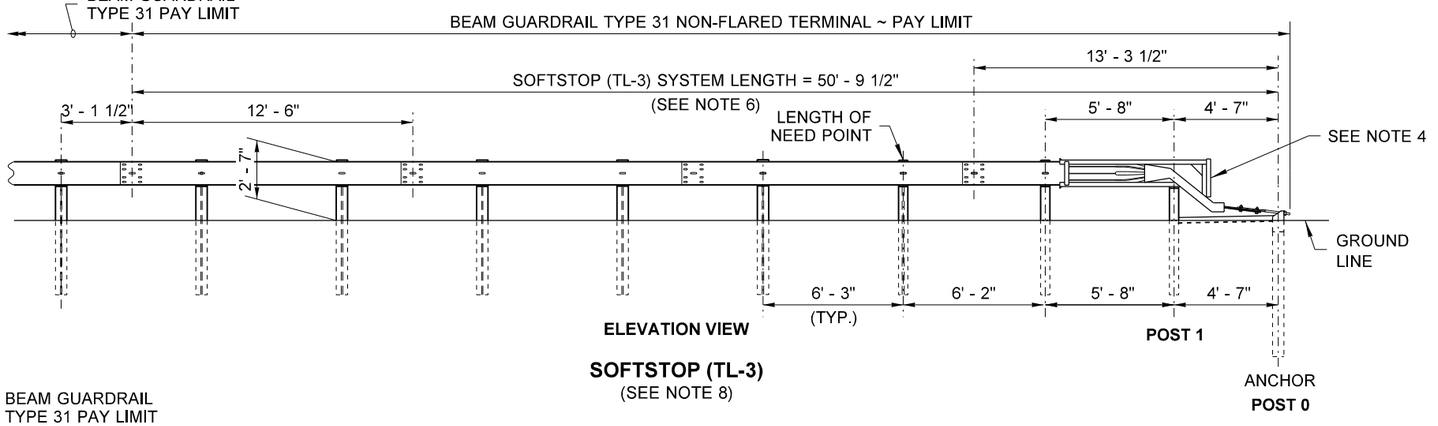
PLAN VIEW

MSKT-SP-MGS (TL-3) SHOWN



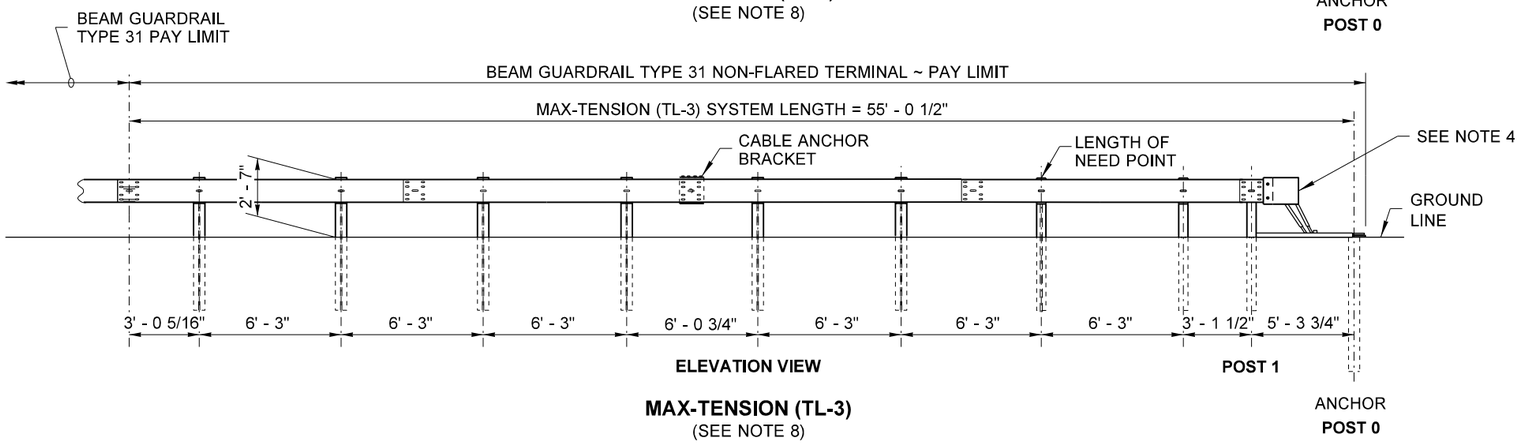
ELEVATION VIEW

MSKT-SP-MGS (TL-3)
(SEE NOTE 8)



ELEVATION VIEW

SOFTSTOP (TL-3)
(SEE NOTE 8)



ELEVATION VIEW

MAX-TENSION (TL-3)
(SEE NOTE 8)

NOTES

1. The Implementation of the Manual for Assessment of Safety Hardware (MASH) criteria may result in the acceptance of guardrail terminal systems currently not shown on this plan. Non-Flared terminals shall be selected from the WSDOT Qualified Products List (QPL) or approved through the WSDOT Request for Approval of Materials (RAM) process.
2. This terminal is MASH compliant at Test Level Three (TL-3) and may be used for all posted speeds.
3. An MSKT-SP-MGS (TL-3) as manufactured by Road Systems, Inc, SOFTSTOP (TL-3) as manufactured by Trinity Highway Products, LLC, or MAX-TENSION (TL-3) as manufactured by Lindsay Transportation Solutions, shall be installed according to manufacturer's recommendations.
4. A reflectorized object marker shall be installed according to manufacturer's recommendations.
5. Snow load rail washers shall not be installed within the terminal limits.
6. Provide an offset between 0 to 2 feet so that the impact head does not encroach onto the paved shoulder. The offset is provided over the length of the terminal system from the center of the last post splice to either: (1) The face of the impact head at its leading edge (MSKT-SP-MGS), or (2) The center of Anchor **Post 0** (Softstop or Max-Tension). Provide maximum offset where practicable.
7. For terminal details, see WSDOT approved manufacturer's drawings.
8. These terminals are supplied with steel posts only. They can be used with beam guardrail Type 31 runs composed of steel or wood guardrail posts.

BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (ALL POSTED SPEEDS) STANDARD PLAN C-22.40-07

SHEET 1 OF 1 SHEET

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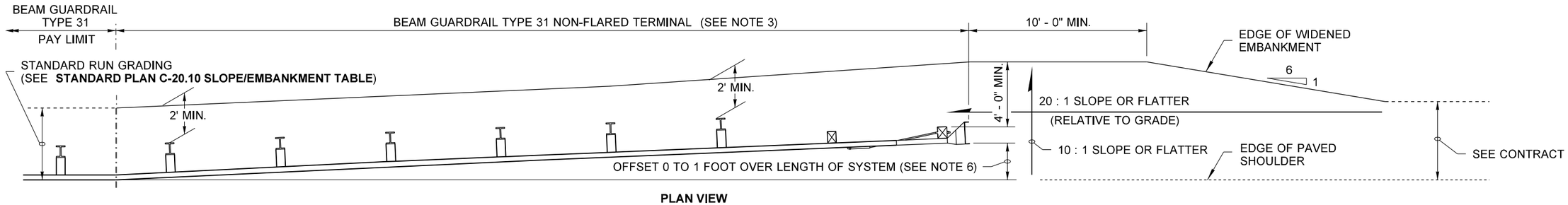
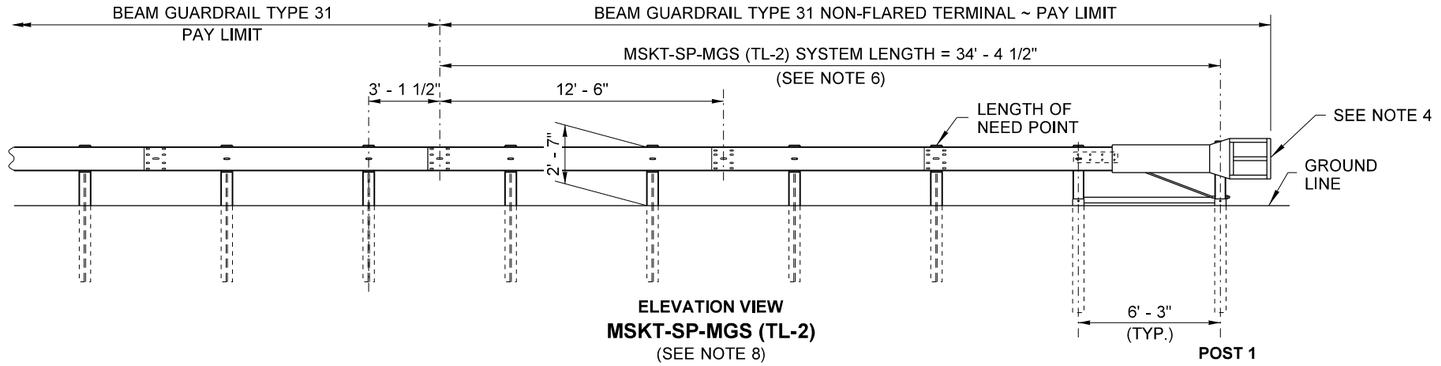
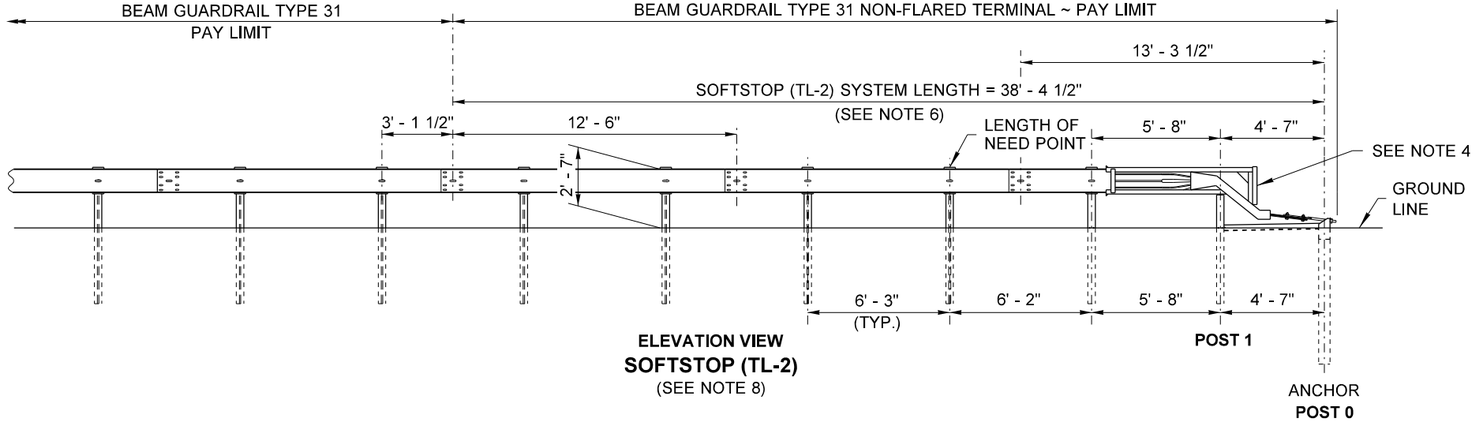


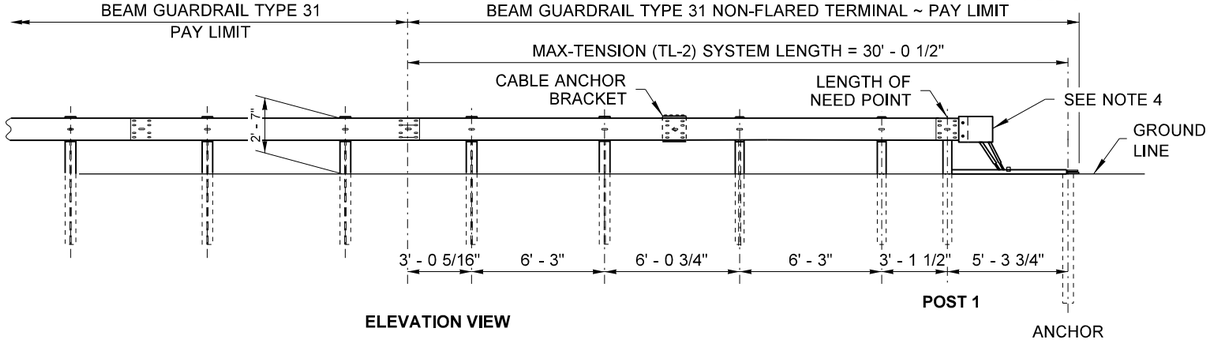
PLAN VIEW
(MSKT-SP-MGS (TL-2) SHOWN)



ELEVATION VIEW
MSKT-SP-MGS (TL-2)
(SEE NOTE 8)



ELEVATION VIEW
SOFTSTOP (TL-2)
(SEE NOTE 8)



ELEVATION VIEW
MAX-TENSION (TL-2)
(SEE NOTE 8)

NOTES

1. The Implementation of the Manual for Assessment of Safety Hardware (MASH) criteria may result in the acceptance of guardrail terminal systems currently not shown on this plan. Non-Flared terminals shall be selected from the WSDOT Qualified Products List (QPL) or approved through the WSDOT Request for Approval of Materials (RAM) process.
2. This terminal is MASH compliant at Test Level Two (TL-2) and may be used in applications with posted speed of 45 mph or less.
3. An MSKT-SP-MGS (TL-2) as manufactured by Road Systems, Inc, SOFTSTOP (TL-2) as manufactured by Trinity Highway Products, LLC, or MAX-TENSION (TL-2) as manufactured by Lindsay Transportation Solutions, shall be installed according to manufacturer's recommendations.
4. A reflectorized object marker shall be installed according to manufacturer's recommendations.
5. Snow load rail washers shall not be installed within the terminal limits.
6. Provide an offset between 0 to 1 foot so that the impact head does not encroach onto the paved shoulder. The offset is provided over the length of the terminal system from the center of the last post splice to either: (1) The face of the impact head at its leading edge (MSKT-SP-MGS), or (2) The center of anchor **Post 0** (Softstop or Max-Tension). Provide the maximum offset where practicable.
7. For terminal details, see WSDOT approved manufacturer's drawings.
8. These terminals are supplied with steel posts only. They can be used with beam guardrail Type 31 runs, composed of steel or wood guardrail posts.

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BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (POSTED SPEED 45 MPH AND BELOW)
STANDARD PLAN C-22.45-04

SHEET 1 OF 1 SHEET

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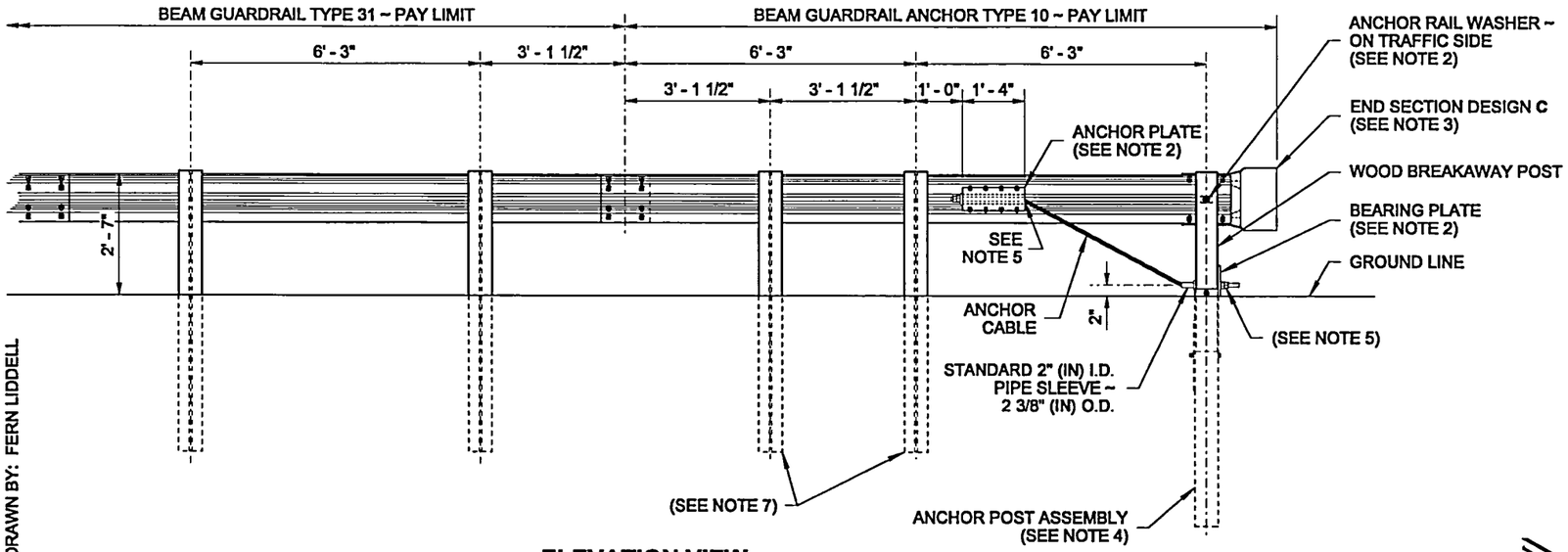

ELEVATION VIEW
W-BEAM

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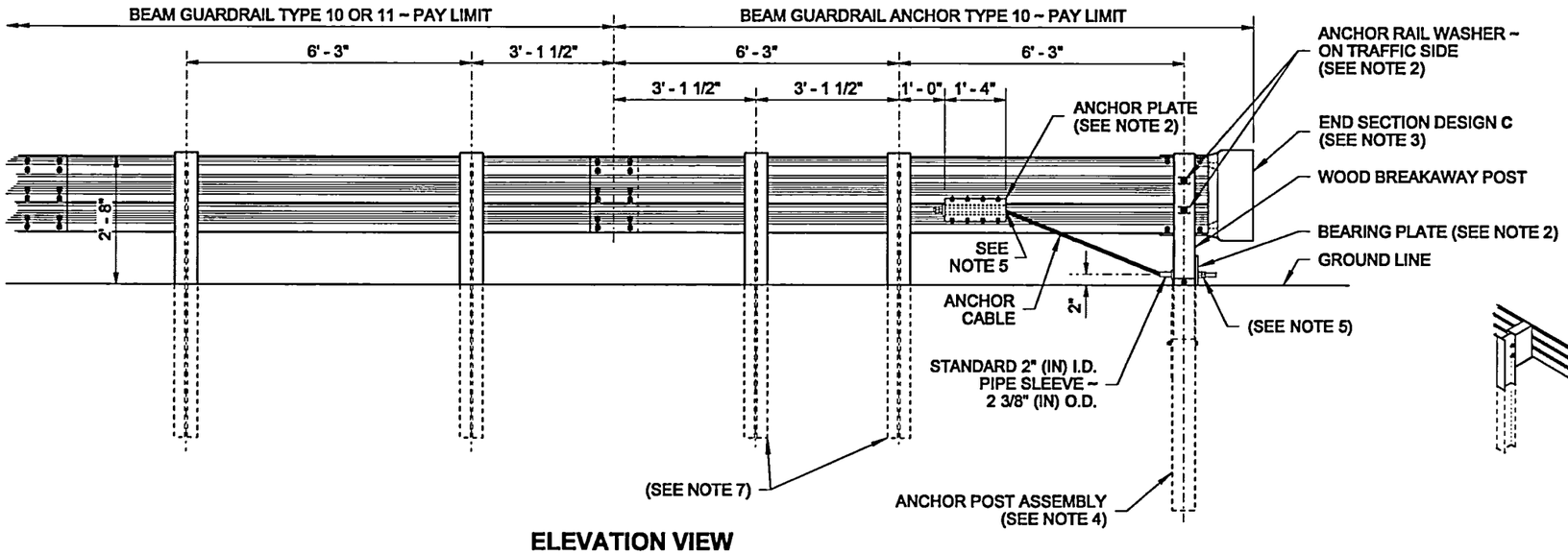
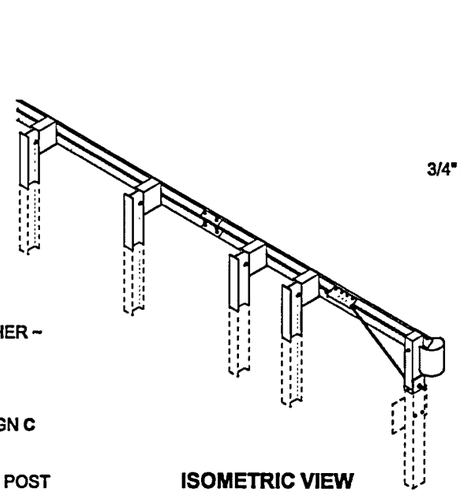


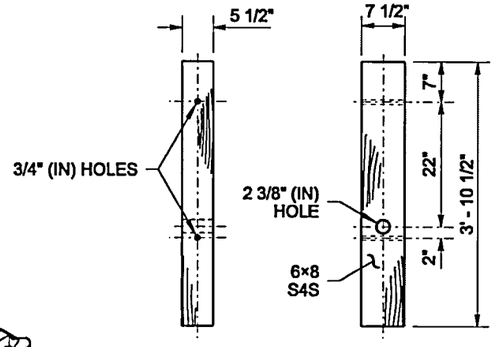
ELEVATION VIEW
THRIE BEAM

NOTES

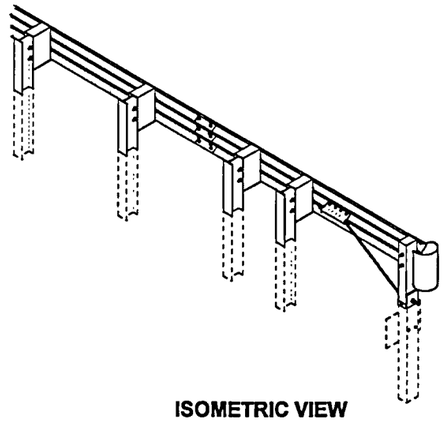
1. For use on the end of guardrail runs when a crashworthy terminal is not required.
2. For additional details not shown, see **Sheet 2** of this Plan.
3. For end section details, see **Standard Plans C-7** and **C-7a**.
4. Use details for Wood Breakaway post shown on this plan and components shown on **Standard Plan C-1b**.
5. Fasten the Anchor Cable using two 1" (in) nuts and washer, at both ends of cable. Outside nut shall be torqued against inside nut a minimum of 100 ft.-lbs.
6. Wood blocks shown. Blocks of alternate material may be used. See **Standard Specification, Section 9-16.3(2)**.
7. Posts shall match those of the connecting run: timber or steel.
8. Anchor plate may be constructed from 1/4" (in) plates welded to equal strength and dimensions as shown.
9. Eight 5/8" (in) x 1/2" (in) machine bolts with hex nut and washer. Place washer on face side of rail.



ISOMETRIC VIEW



WOOD BREAKAWAY POST DETAIL



ISOMETRIC VIEW

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BEAM GUARDRAIL (TYPE 31) ANCHOR TYPE 10

STANDARD PLAN C-23.60-04

SHEET 1 OF 2 SHEETS

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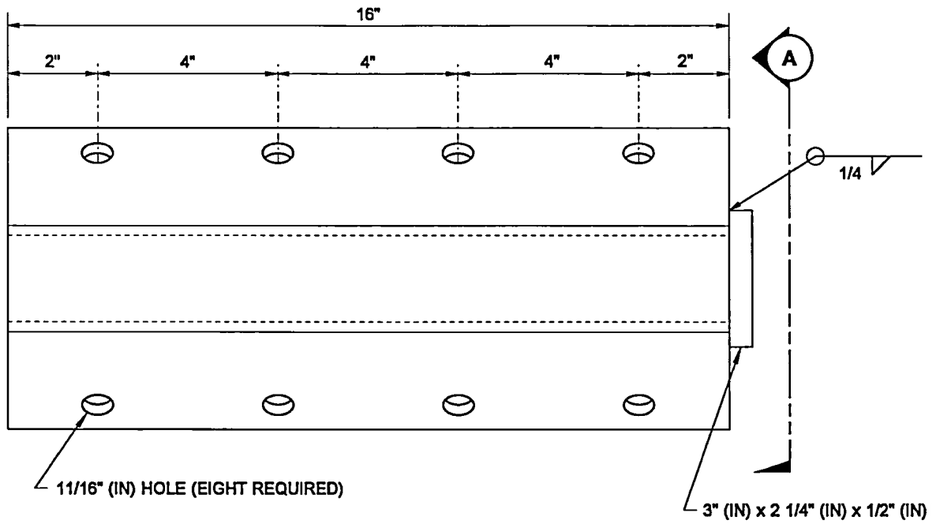
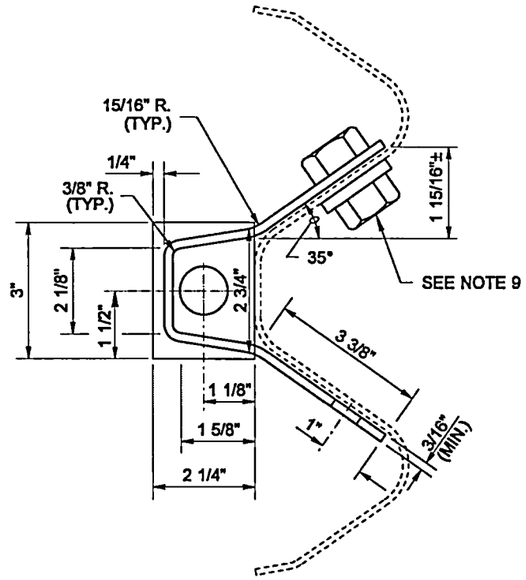
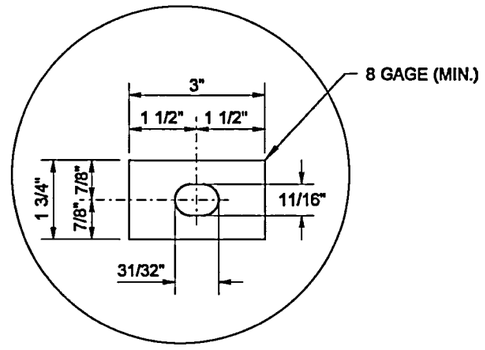


ELEVATION

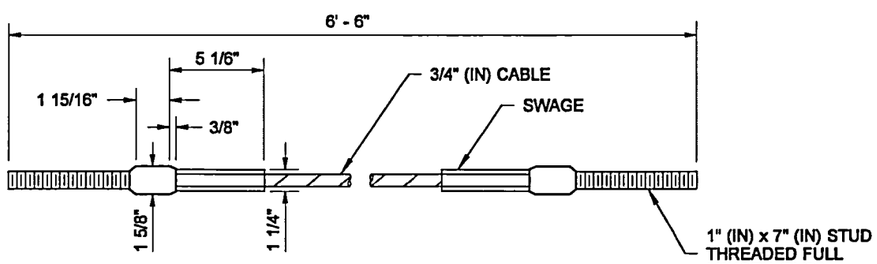
ANCHOR PLATE
(SEE NOTE 8)



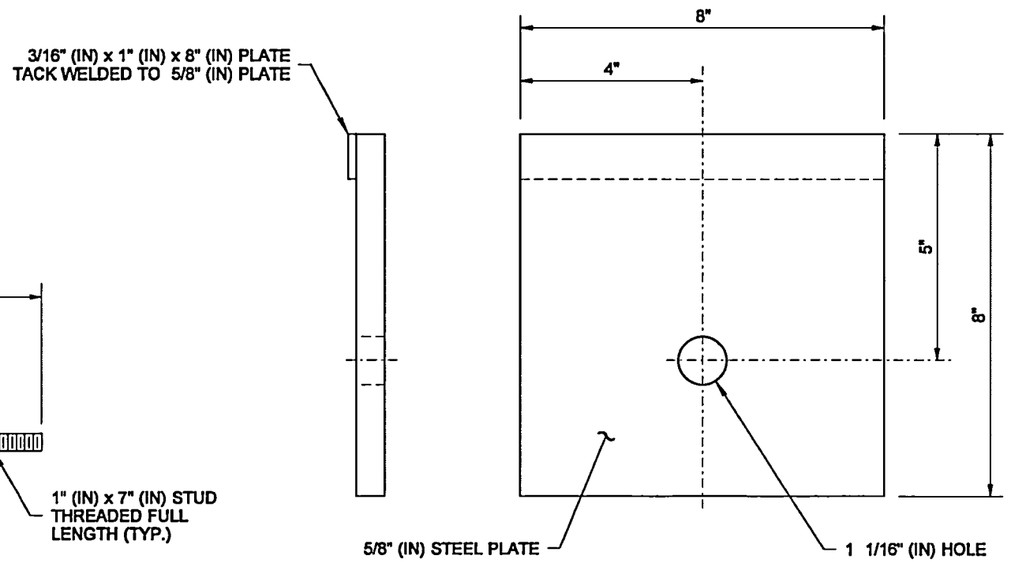
SECTION (A)



ANCHOR RAIL WASHER



ANCHOR CABLE



BEARING PLATE

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BEAM GUARDRAIL (TYPE 31)
ANCHOR TYPE 10

STANDARD PLAN C-23.60-04

SHEET 2 OF 2 SHEETS

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Washington State Department of Transportation

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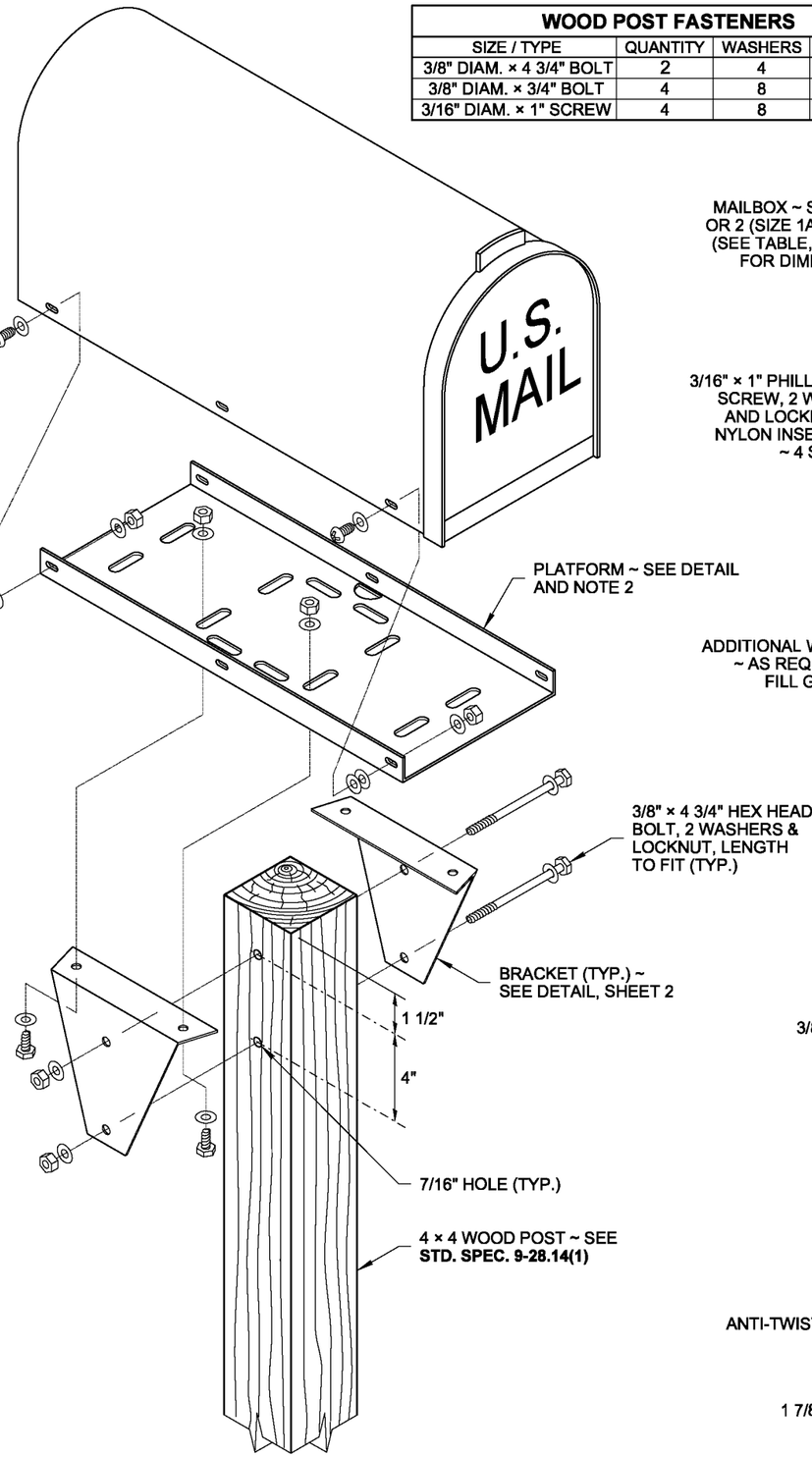
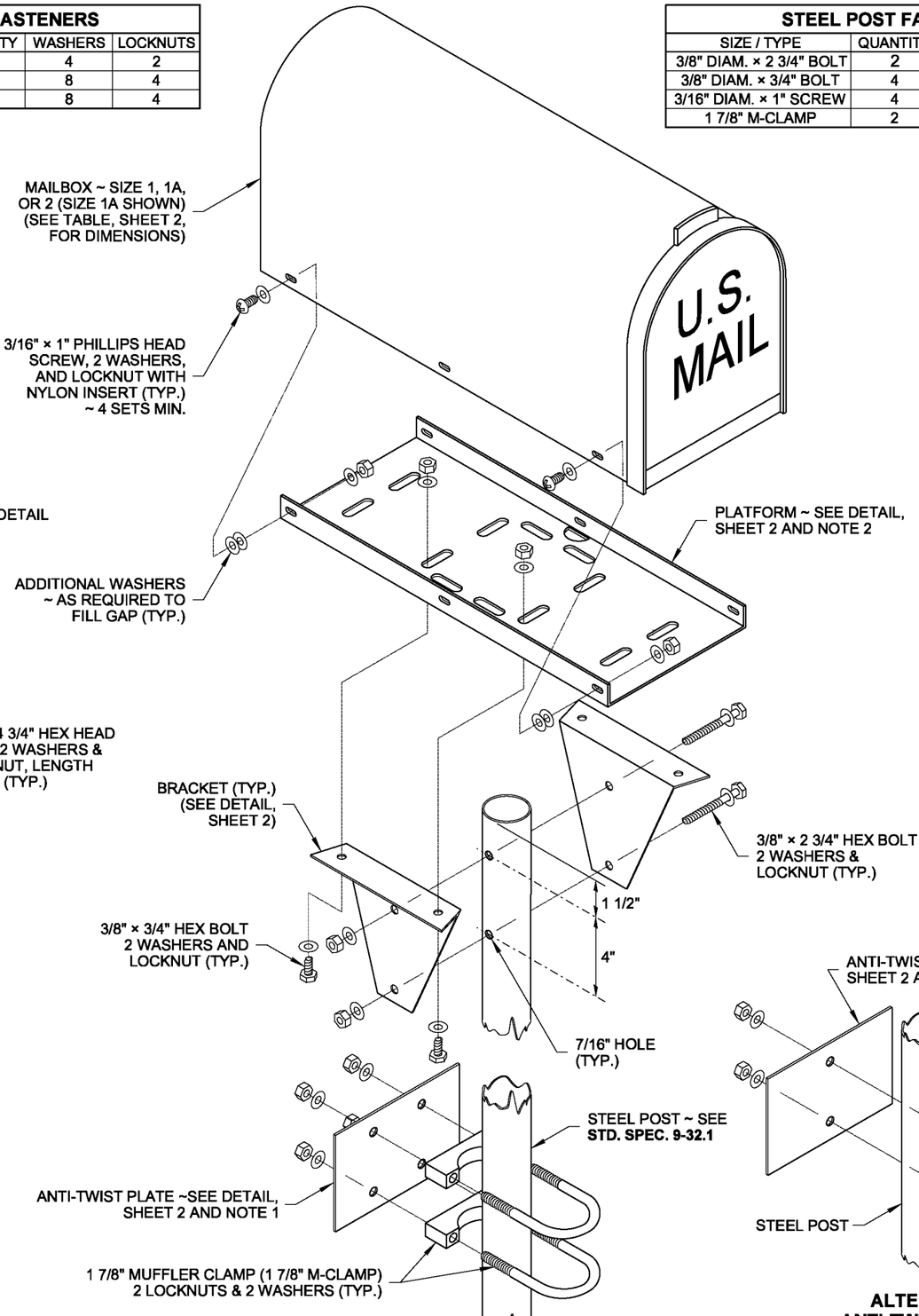
WOOD POST FASTENERS			
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS
3/8" DIAM. × 4 3/4" BOLT	2	4	2
3/8" DIAM. × 3/4" BOLT	4	8	4
3/16" DIAM. × 1" SCREW	4	8	4



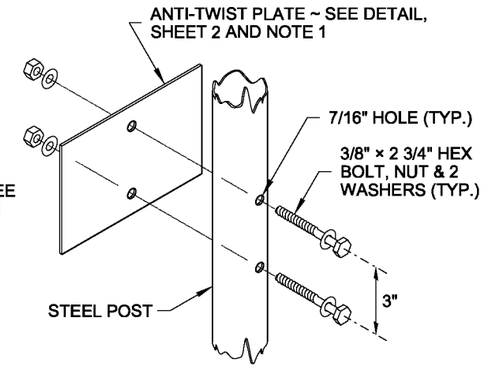
WOOD POST ASSEMBLY DETAIL

SEE **STEEL POST ASSEMBLY DETAIL** FOR SPECIFICATIONS NOT SHOWN

STEEL POST FASTENERS			
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS
3/8" DIAM. × 2 3/4" BOLT	2	4	2
3/8" DIAM. × 3/4" BOLT	4	8	4
3/16" DIAM. × 1" SCREW	4	8	4
1 7/8" M-CLAMP	2	4	4



STEEL POST ASSEMBLY DETAIL



ALTERNATE ANTI-TWIST PLATE DESIGN

NOTES

1. A socket and wedge anchoring system that meets the NCHRP 350 crash test criteria may be substituted in lieu of the anti-twist plate designs shown. Anti-twist plates are not required for wood post installations.

2. The platform design shown on this plan features slots that accommodate several types of mailbox supports; only those slots necessary for assembling the type being installed are required. An adjustable platform may be used in lieu of this design, but it must fit the bracket design shown on this plan. Brackets are required for all single-post installations. Field drilling may be necessary.

3. Center the mailbox on the platform to ensure space for the mailbox door to open and to allow space for installing the fasteners (see ALIGNMENT DETAIL, Sheet 2). Spacing of mailbox mounting holes varies among manufacturers. Attachment of the mailbox to the platform may require drilling additional holes through the mailbox to fit the platform.

4. Attach a newspaper box to a steel post with two 1 7/8" Muffler Clamps spaced 4" apart. Field drill 7/16" holes in the newspaper box to fit. Use 2 1/2" × 1/4" lag bolts to attach newspaper boxes to wood posts. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.

5. A Type 2 Support **(Standard Plan H-70.20)** is required when 2 or more mailboxes are to be installed on one support.

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MAILBOX SUPPORT TYPE 1

STANDARD PLAN H-70.10-01

SHEET 1 OF 2 SHEETS

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Pasco Bakotich III — STATE DESIGN ENGINEER

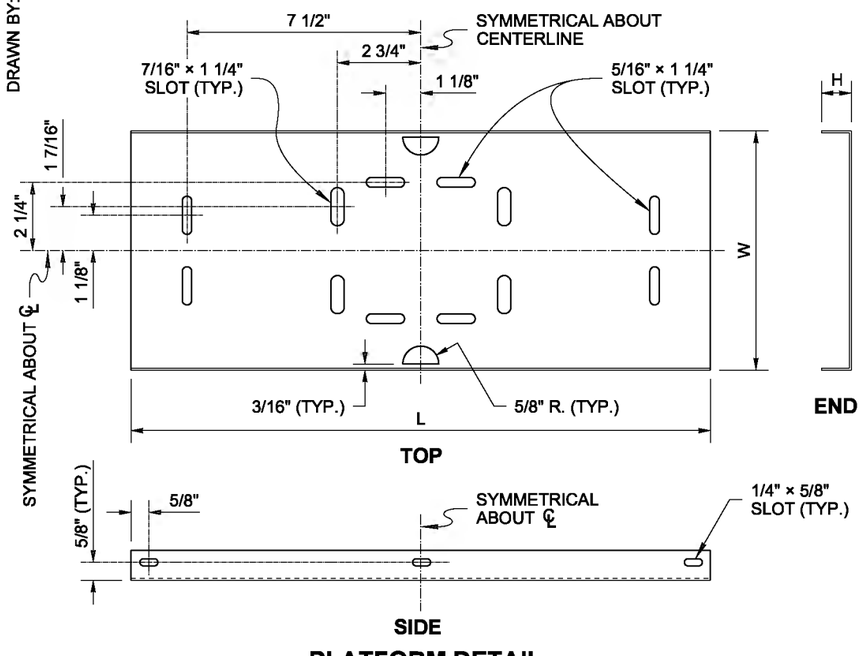
02-07-12 — DATE

Washington State Department of Transportation

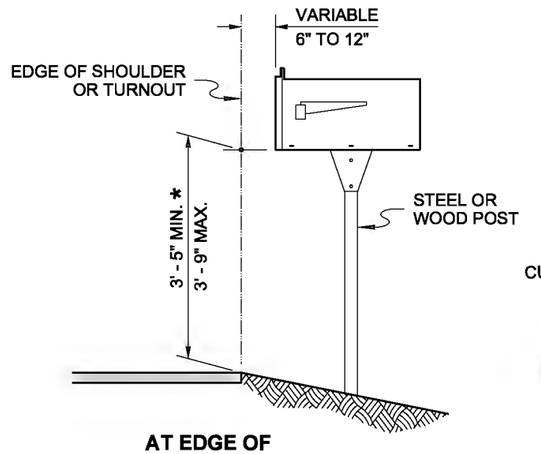
DRAWN BY: MARK SUJKA

MAILBOX & PLATFORM DIMENSIONS

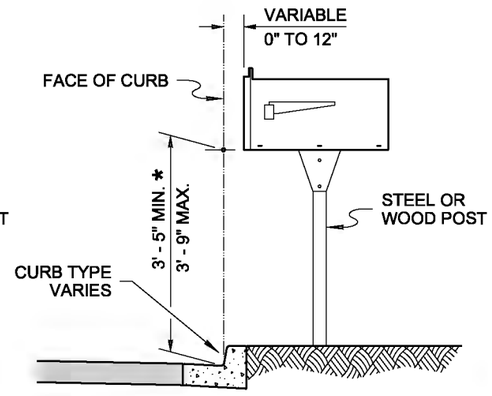
SIZE	MAILBOX DIMENSIONS			PLATFORM DIMENSIONS		
	L	W	H	L	W	H
1	19"	6 1/2"	8 1/2"	17"	6"	1"
1A	21"	8"	10 1/2"	19"	7 1/2"	1"
2	24"	11 1/2"	13 1/2"	21"	11"	1"



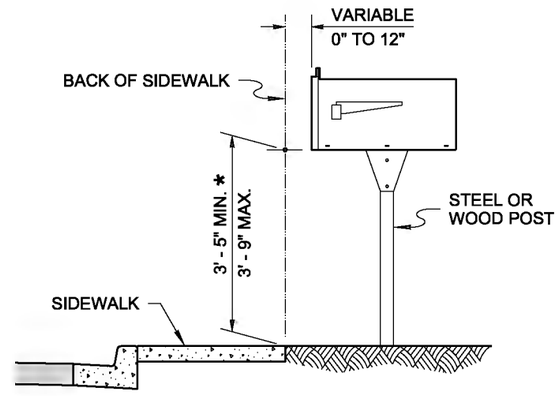
PLATFORM DETAIL



AT EDGE OF SHOULDER



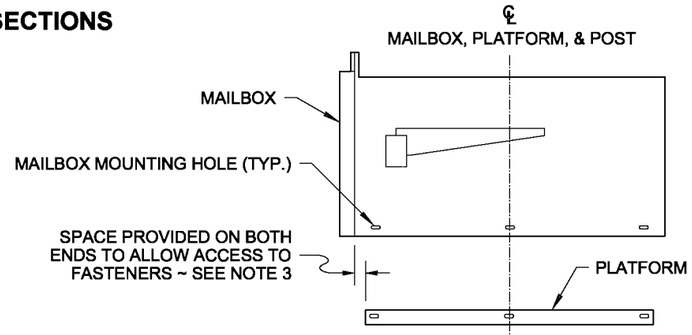
BEHIND CURB



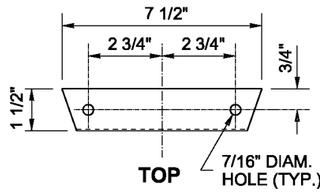
BEHIND SIDEWALK

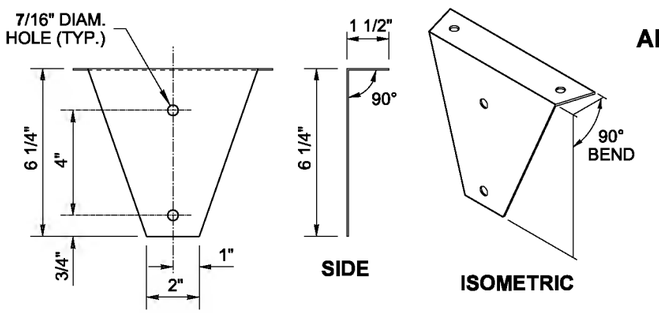
* UNLESS OTHERWISE SHOWN IN THE PLANS

MAILBOX PLACEMENT SECTIONS

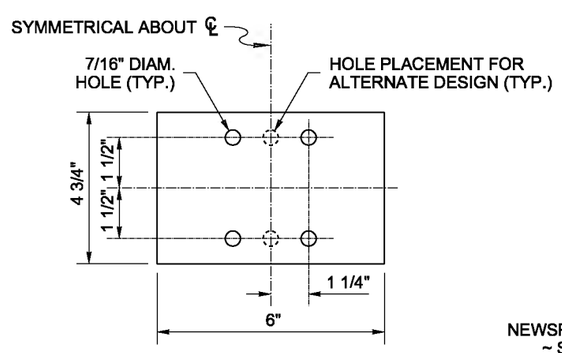


ALIGNMENT DETAIL

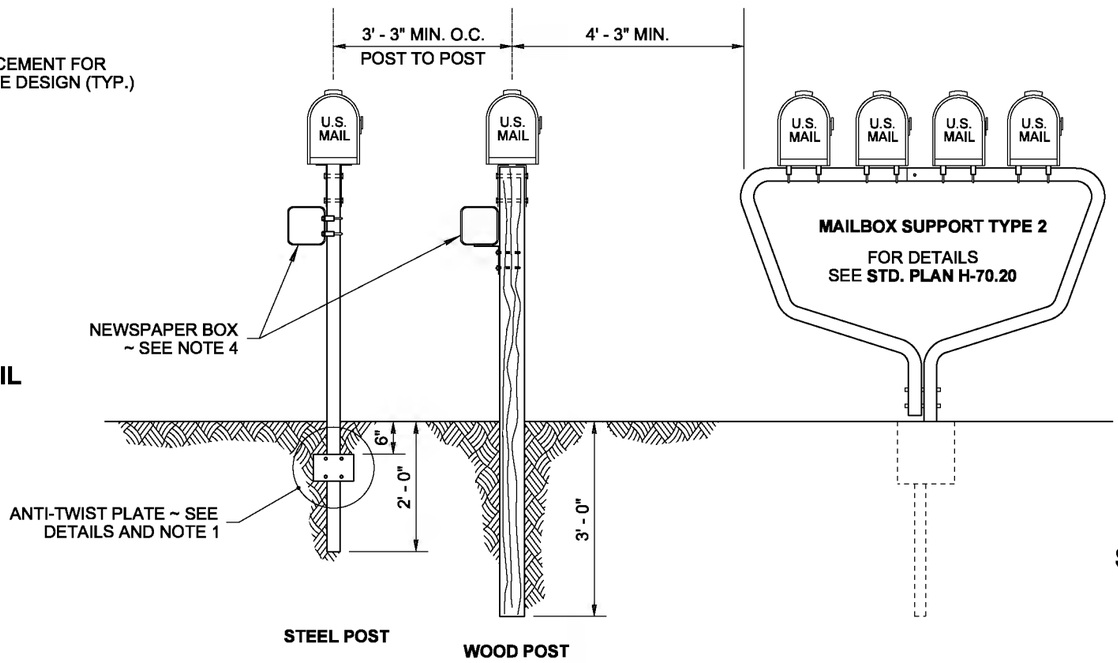




BRACKET DETAIL



ANTI-TWIST PLATE DETAIL



POST PLACEMENT DETAIL

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

MAILBOX SUPPORT TYPE 1

STANDARD PLAN H-70.10-01

SHEET 2 OF 2 SHEETS

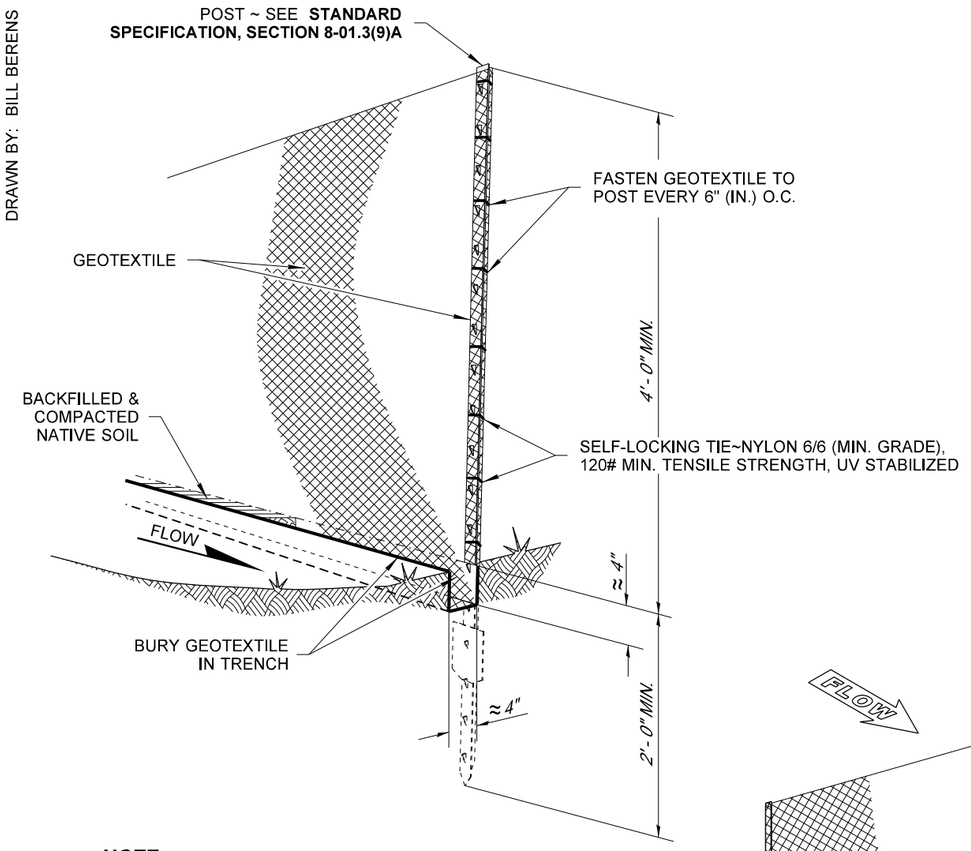
APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER

02-07-12 — DATE

Washington State Department of Transportation

DRAWN BY: BILL BERENS

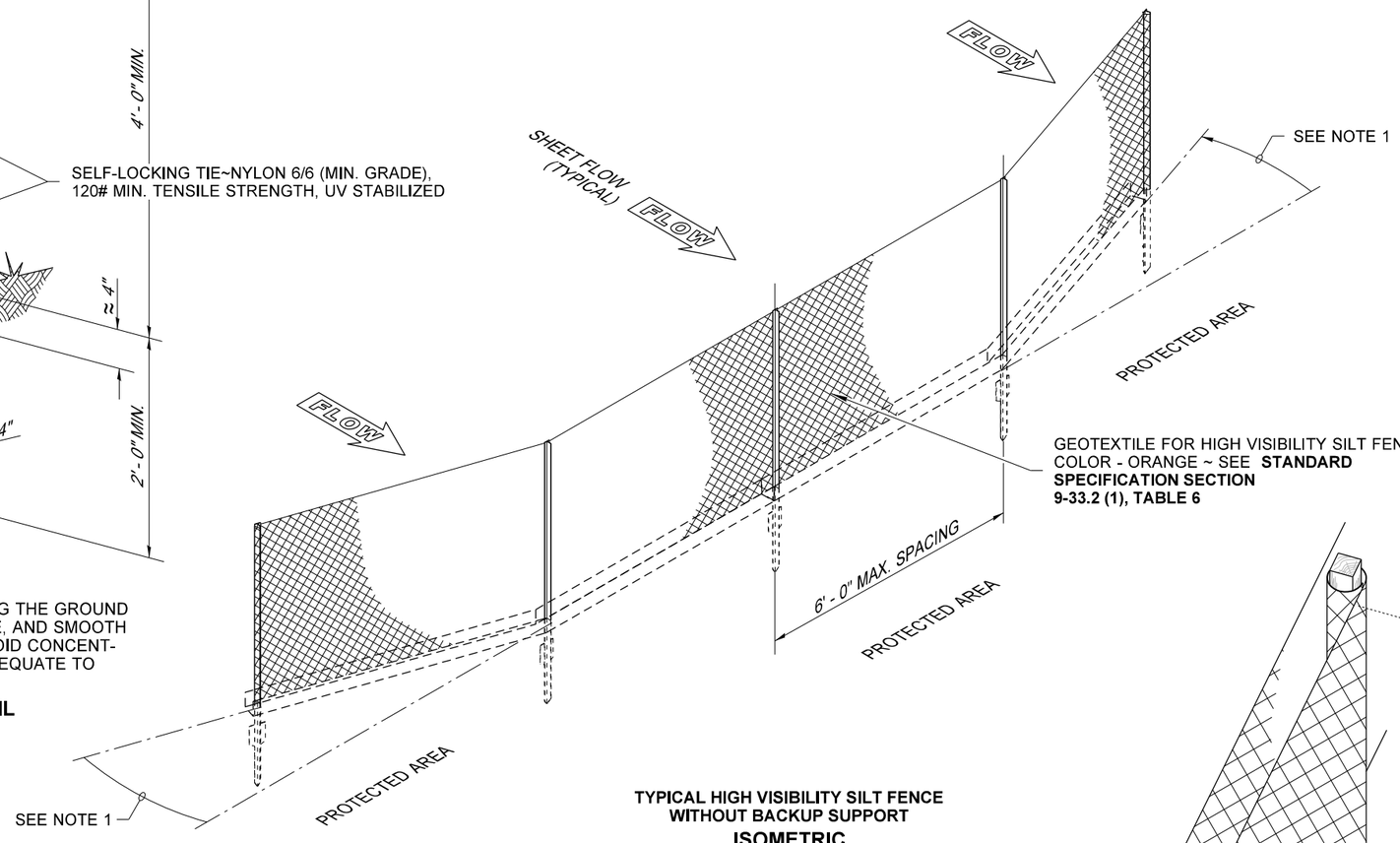


NOTE

DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENT-RATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

TYPICAL INSTALLATION DETAIL

(STEEL POSTS SHOWN)



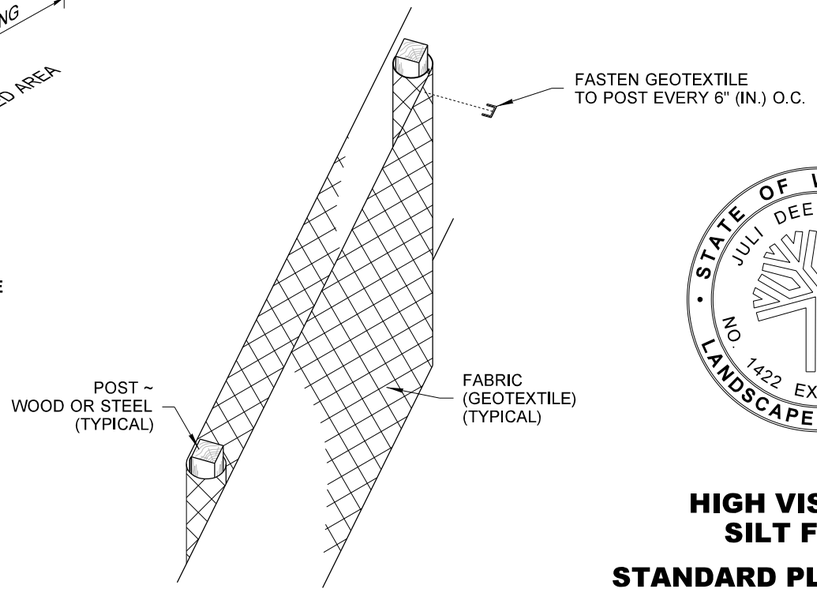
TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT

ISOMETRIC

(STEEL POSTS SHOWN)

NOTES

1. Angle Terminal end uphill 24" (in) to 48" (in) to prevent flow around fence (Typical).
2. Perform maintenance in accordance with **Standard Specification, Sections 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.



SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.

SPLICE DETAIL

(WOOD POSTS SHOWN)

STATE OF WASHINGTON · JULI DEE HARTWIG · NO. 1422 EXP. 06/21/2021 · LANDSCAPE ARCHITECT

HIGH VISIBILITY SILT FENCE

STANDARD PLAN I-30.17-01

SHEET 1 OF 1 SHEET

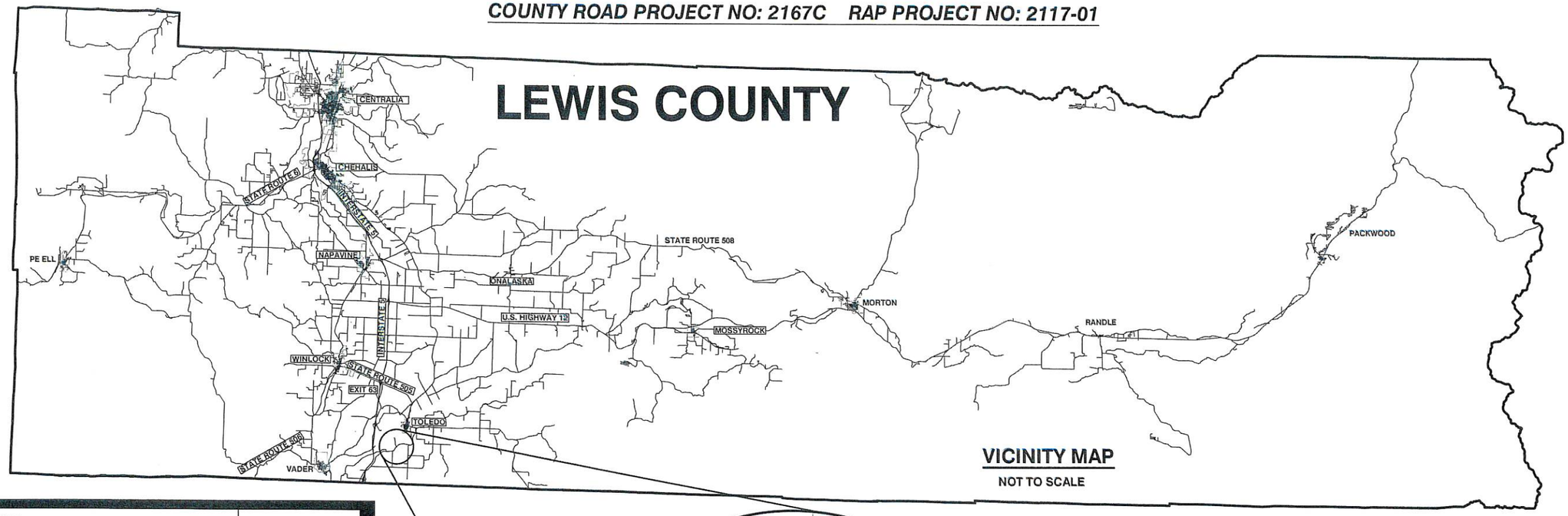
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT PROJECT

COUNTY ROAD PROJECT NO: 2167C RAP PROJECT NO: 2117-01



VICINITY MAP

NOT TO SCALE

LEWIS COUNTY
DEPARTMENT OF PUBLIC WORKS
APPROVED FOR CONSTRUCTION:

County Engineer Date 3-12-20

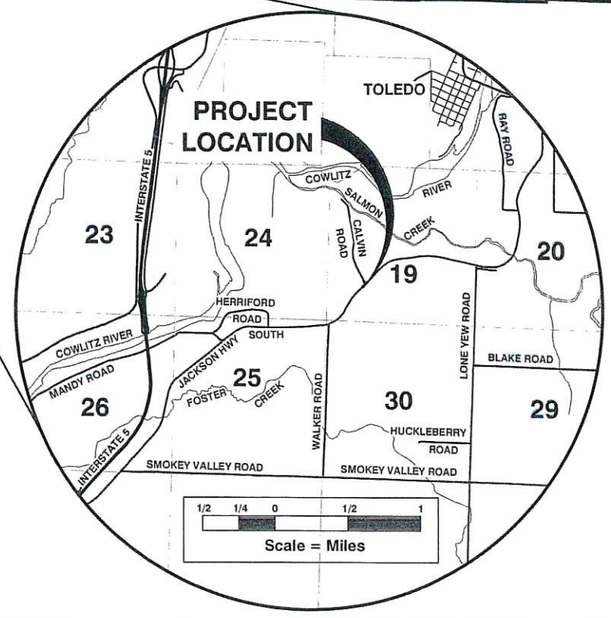
TIM D FIFE
STATE OF WASHINGTON
#24184
REGISTERED
PROFESSIONAL ENGINEER

COMMISSIONERS:

EDNA J. FUND, DISTRICT 1
ROBERT C. JACKSON, DISTRICT 2
GARY STAMPER, DISTRICT 3

Lewis County
Department of Public Works

**ENGINEERING-
DESIGN SECTION**



SHEET INDEX

LEGEND

EXISTING FEATURES

- TR — TELEPHONE RISER
- PM — POWER METER
- WELL HEAD
- FP — FENCE POST
- CONCRETE DEBRIS
- STUMP
- SHRUB
- DECIDUOUS TREE
- CONIFER TREE
- PP — POWER POLE
- SP — GUY POLE
- GUY WIRE
- SIGN
- MAILBOX
- EXISTING CULVERT
- EXISTING CENTERLINE
- EXISTING ROAD EDGE
- EXISTING APPROACH
- X — FENCE
- STREAM / DITCH
- OHU — OVERHEAD UTILITIES
- TPHONE — UNDERGROUND UTILITIES
- FIBER — UNDERGROUND FIBER
- WATER UTILITIES
- LANDSCAPE — LANDSCAPING
- GATE — GATE — GATE — GATE
- GR — GUARDRAIL
- BUILDING
- TOE — TOE — TOE
- TOP — TOP — TOP

SURVEY FEATURES

- POINT OF CURVATURE
  POINT OF INTERSECTION
  POINT OF TANGENT
- HYK — LEWIS COUNTY HUB & TACK
- SPIKE — LEWIS COUNTY SPIKE
- IP — IRON PIPE
- RIGHT OF WAY
- PERMANENT SLOPE EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- PLANTING AREA

NEW CONSTRUCTION FEATURES

- # — CALLOUT
- 6' HIGH X 10' WIDE X 95' LONG PRECAST CONCRETE SPLIT BOX CULVERT WITH 10' LONG SLOPED END SECTIONS
- GUARDRAIL (TYPE 31 8' LONG POST)
- GUARDRAIL (TYPE 31)
- ROADWAY DESIGN CENTERLINE
- STREAMBED DESIGN CENTERLINE
- DESIGN ROADWAY FINISHED TOP
- DESIGN SHOULDER FINISHED TOP
- EAST DITCH & OUTLET STREAM BERM FINISHED TOP
- STREAMBED MIX FINISHED TOP
- CASCADE MIX FINISHED TOP
- ACCESS ROAD FINISHED TOP
- SILT FENCE
- CLEARING & GRUBBING
- CUTOFF WALL
- STREAMBED BOULDER ONE MAN
- CATCH BASIN TYPE 2
- SCHEDULE A CULVERT PIPE
- APE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

LEGEND

SHEET 2 OF 22

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020

DONALD J CARNEY
STATE OF WASHINGTON
#42763
REGISTERED PROFESSIONAL ENGINEER

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
		PREPARATION		
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0025	CLEARING AND GRUBBING	0.16	ACRE
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
4	0170	REMOVING GUARDRAIL	312.50	L.F.
5	0182	REMOVING GUARDRAIL ANCHOR	4	EACH
		GRADING		
6	0310	ROADWAY EXCAVATION INCL. HAUL	430	C.Y.
7	0408	SELECT BORROW INCL. HAUL	1500	TON
8	0470	EMBANKMENT COMPACTION	350	C.Y.
		DRAINAGE		
9	1030	DITCH EXCAVATION INCL. HAUL	15	C.Y.
10	1040	CHANNEL EXCAVATION INCL. HAUL	50	C.Y.
11	1093	STREAMBED SEDIMENT	238	TON
12	0905	STREAMBED BOULDER ONE MAN	300	EACH
13	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	138	L.F.
14	3026	PRECAST REINF. CONC. SPLIT BOX CULVERT	LUMP SUM	LUMP SUM
15	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
16	S.P.	STREAMBED MIX	488	TON
17	S.P.	CASCADE MIX	215	TON
		STORM SEWER		
18	3109	CATCH BASIN TYPE 2 60 IN. DIAM.	1	EACH
		STRUCTURE		
19	4006	STRUCTURE EXCAVATION CLASS A INCL. HAUL	1490	C.Y.
		SURFACING		
20	5100	CRUSHED SURFACING BASE COURSE	690	TON
21	5120	CRUSHED SURFACING TOP COURSE	150	TON
22	S.P.	SHOULDER FINISHING	0.10	MILE
		HOT MIX ASPHALT		
23	5711	PLANING BITUMINOUS PAVEMENT	75	S.Y.
24	5766	HMA CL. 3/8 IN. PG 58H-22 FIBER REINFORCED	195	TON
		EROSION CONTROL AND ROADSIDE PLANTING		
25	6490	EROSION / WATER POLLUTION CONTROL	EST.	DOLLAR
26	6422	SEEDING AND MULCHING	0.27	ACRE
27	6393	TOPSOIL TYPE C	245	S.Y.
28	6635	HIGH VISIBILITY SILT FENCE	239	L.F.
29	S.P.	PLANTING MITIGATION CONSTRUCTION	LUMP SUM	LUMP SUM
		TRAFFIC		
30	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	206.25	L.F.
31	6757	BEAM GUARDRAIL TYPE 31	18.75	L.F.
32	6719	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	2	EACH
33	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	75	L.F.
34	6766	BEAM GUARDRAIL ANCHOR TYPE 10	1	EACH
35	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
36	6982	CONSTRUCTION SIGNS CLASS A	311.50	S.F.
		OTHER ITEMS		
37	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	90	C.Y.
38	7011	GRAVEL BACKFILL FOR FOUNDATION CLASS A (CRUSHED SURFACING BASE COURSE)	165	C.Y.
39	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
40	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	DOLLAR
41	7728	MINOR CHANGE	CALC.	DOLLAR
42	7736	SPCC PLAN	LUMP SUM	LUMP SUM
43	7562	MAILBOX SUPPORT TYPE 1	2	EACH
44	S.P.	PLUGGING EXISTING PIPE	LUMP SUM	LUMP SUM
45	S.P.	CUTOFF WALL	LUMP SUM	LUMP SUM

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

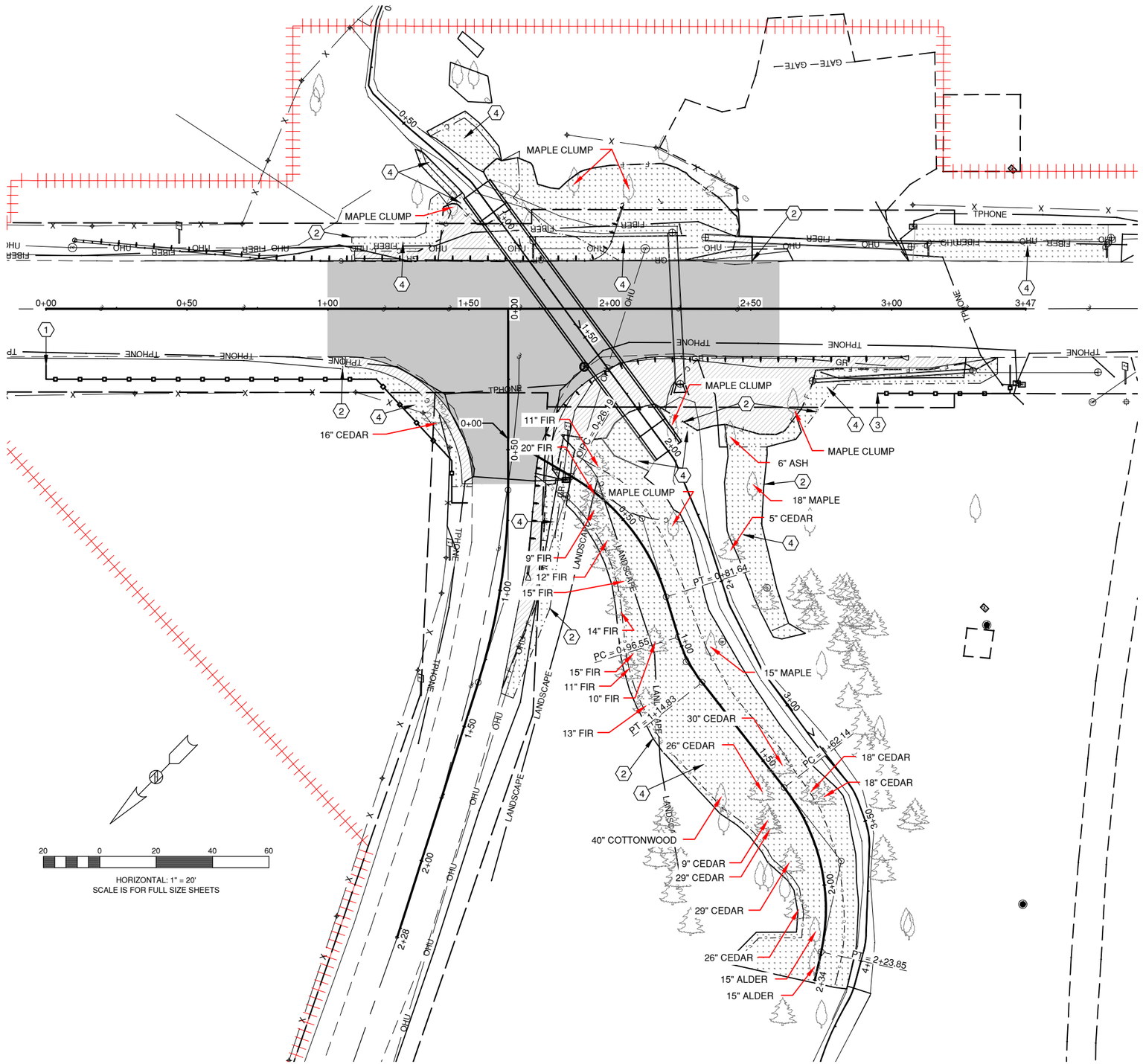
JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

SUMMARY OF QUANTITIES

SHEET 3 OF 22

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020



BMP LEGEND

- APE
- HIGH VISIBILITY SILT FENCE
- CLEAR AND GRUB LIMITS
- FILL
- CUT
- FLOW LINE
- EXISTING RIGHT OF WAY
- DESIGN ROADWAY FINISHED TOP
- IN-SLOPE
- SEEDING, FERTILIZING, AND MULCHING
- __" TREE — TREES TO BE REMOVED

CONSTRUCTION NOTES

1. STA 0+00.00 RIGHT (SOUTH JACKSON HWY)
   CONSTRUCT HIGH VISIBILITY SILT FENCE
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE WSDOT STANDARD PLAN I-30.17-01
   182 L.F. HIGH VISIBILITY SILT FENCE

2. CLEARING AND GRUBBING
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   0.15 ACRE CLEARING AND GRUBBING

3. STA 2+95.00 RIGHT (SOUTH JACKSON HWY)
   CONSTRUCT HIGH VISIBILITY SILT FENCE
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE WSDOT STANDARD PLAN I-30.17-01
   57.00 L.F. HIGH VISIBILITY SILT FENCE

4. SEEDING, FERTILIZING, AND MULCHING
   PLANTING ZONE A AND PLANTING ZONE B SEEDING, FERTILIZING, AND MULCHING QUANTITIES ARE INCLUDED
   1310 S.Y. SEEDING AND MULCHING

ALL TREES THAT ARE NOT MARKED TO BE REMOVED SHALL REMAIN

Lewis County
Department of Public Works
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DESIGNED BY : DJC
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DATE :

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

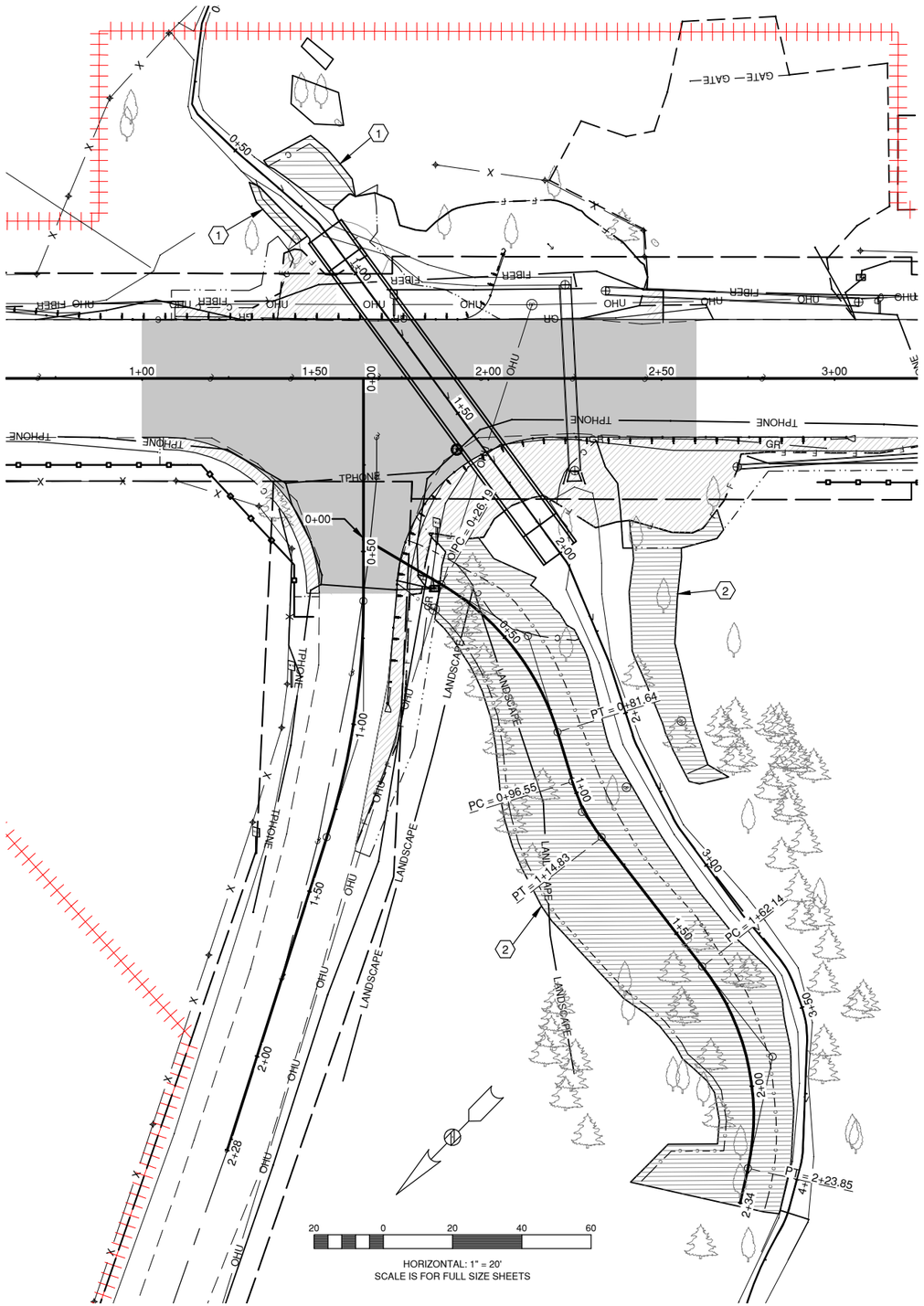
BMP PLAN

SHEET 4 OF 22

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020

DONALD J CARNEY
STATE OF WASHINGTON
#42763
REGISTERED PROFESSIONAL ENGINEER
5-23-21



CONSTRUCTION NOTES

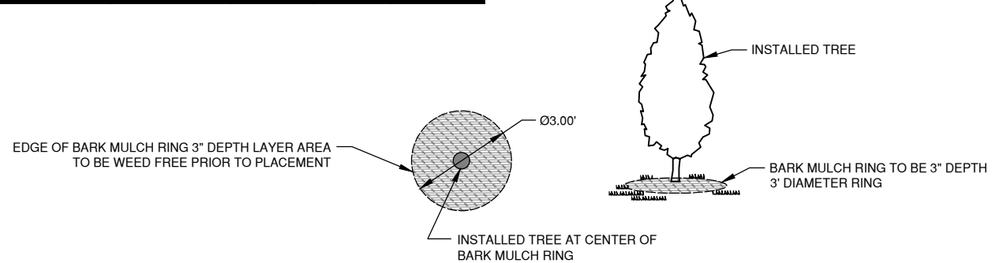
1. CONSTRUCT PLANTING ZONE B
   BOUNDARY TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE PLANTING ZONE TABLE ON THIS SHEET
2. CONSTRUCT PLANTING ZONE A
   BOUNDARY TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE PLANTING ZONE TABLE ON THIS SHEET

BMP LEGEND

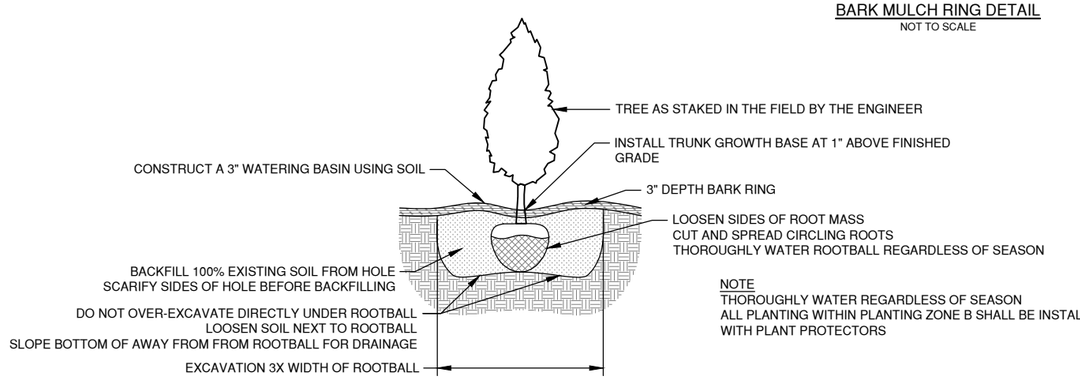
- APE
- HIGH VISIBILITY SILT FENCE
- CLEAR AND GRUB LIMITS
- FILL
- CUT
- FLOW LINE
- EXISTING RIGHT OF WAY
- DESIGN ROADWAY FINISHED TOP
- IN-SLOPE
- PLANTING ZONE A
- PLANTING ZONE B

PLANTING ZONE TABLE

Planting Zone	Scientific Name	Common Name	Size of Plants (Material)	Planting Density (Spacing)	Proportion of Planting in Strata (%)	Number of Plants
Planting Zone A	*Pseudotsuga menziesii*	Douglas Fir	2 gallon container	12' on-center	40	22
area: 7,875 sq ft	*Thuja plicata*	Western Red Cedar	2 gallon container	12' on-center	20	11
	Acer macrophyllum	Big-Leaf Maple	2 gallon container	12' on-center	40	22
	Symphoricarpos albus	Common Snowberry	1 gallon container	5' on-center	35	107
	Corylus cornuta	Beaked Hazelnut	1 gallon container	5' on-center	15	41
	Rubus parviflorus	Thimbleberry	1 gallon container	5' on-center	35	107
	Holodiscus discolor	Oceanspray	1 gallon container	5' on-center	15	41
Planting Zone B	*Thuja plicata*	Western Red Cedar	2 gallon container	12' on-center	50	1
area 380 sq ft	*Acer macrophyllum*	Big-Leaf Maple	2 gallon container	12' on-center	50	1
	Acer circinatum	Vine Maple	1 gallon container	5' on-center	35	5
	Oemleria cerasiformis	Indian Plum	1 gallon container	5' on-center	20	2
	Symphoricarpos albus	Common Snowberry	1 gallon container	5' on-center	35	5



BARK MULCH RING DETAIL
NOT TO SCALE



NOTE
THOROUGHLY WATER REGARDLESS OF SEASON
ALL PLANTING WITHIN PLANTING ZONE B SHALL BE INSTALLED
WITH PLANT PROTECTORS

CONTAINER PLANTING DETAIL
NOT TO SCALE

Lewis County
Department of Public Works
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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

PLANTING PLAN

SHEET 5 OF 22

CALL 48 HOURS BEFORE YOU DIG
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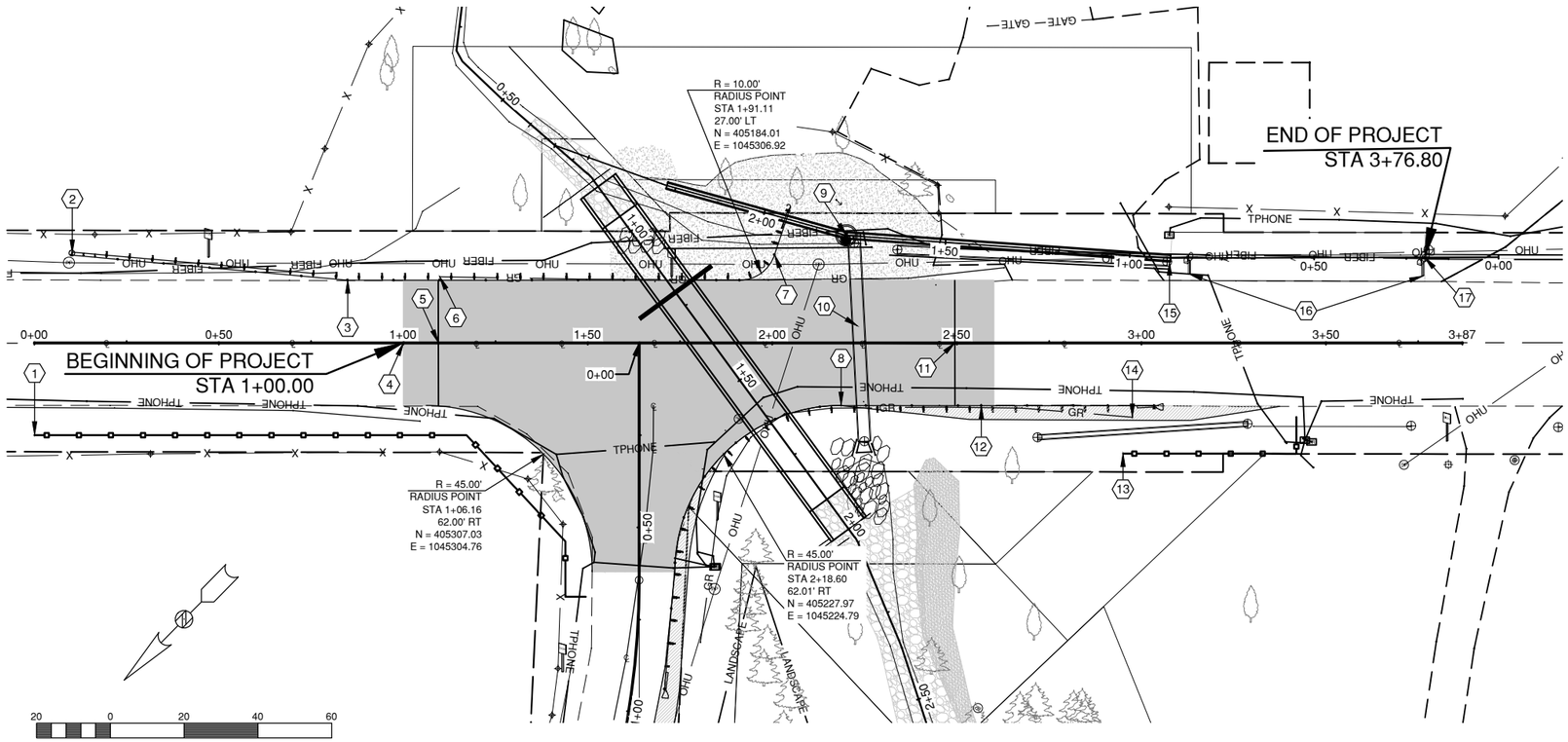
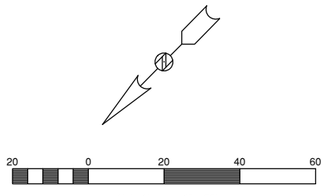
Utilities Underground Location Center

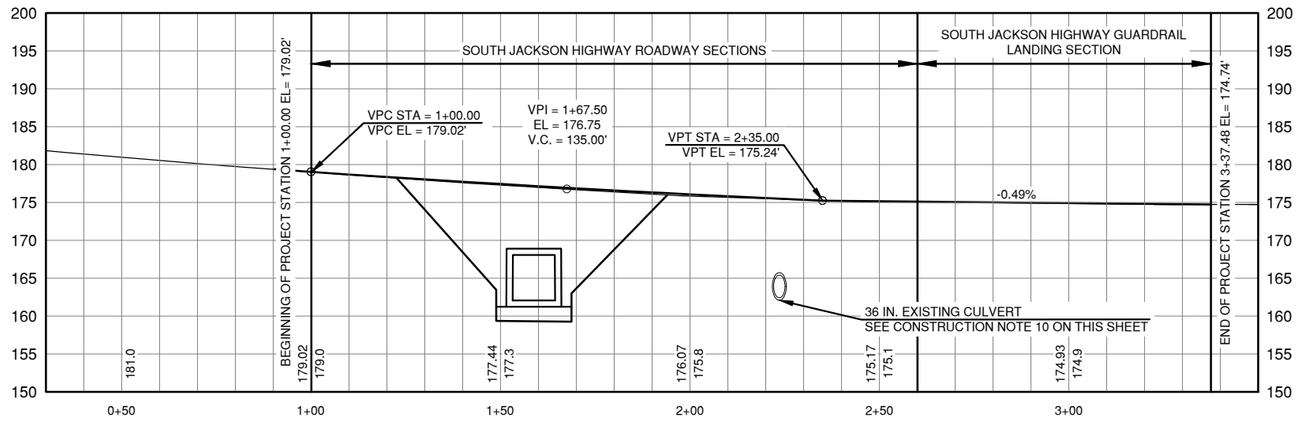
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020

DONALD J CARNEY
STATE OF WASHINGTON
#42763
REGISTERED PROFESSIONAL ENGINEER
5-23-21





HORIZONTAL: 1" = 20'
VERTICAL: 1" = 10'
SCALE IS FOR FULL SIZE SHEETS



CONSTRUCTION NOTES

1. STA 0+00.00 RIGHT (SOUTH JACKSON HWY)
   CONSTRUCT HIGH VISIBILITY SILT FENCE
   SEE BMP PLAN ON SHEET 4 OF 22

2. STA 0+10.21 LEFT (SOUTH JACKSON HWY)
   CONSTRUCT BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   WSDOT STANDARD PLAN C-22.16-06
   75.00 L.F. BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2

3. STA 0+84.86 LEFT (SOUTH JACKSON HWY)
   CONSTRUCT BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE WSDOT STANDARD PLAN C-20.10-05
   118.75 L.F. BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST

4. STA 1+00.00 TO STA 1+09.47 (SOUTH JACKSON HWY)
   BEGIN PLANING BITUMINOUS
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE SOUTH JACKSON HWY TYPICAL SECTION (A) ON SHEET 14 OF 22
   75.00 S.Y. PLANING BITUMINOUS PAVEMENT

5. STA 1+09.47 TO STA 2+49.47 OR NEAREST CONCRETE PANEL JOINTS (SOUTH JACKSON HWY)
   BEGIN SOUTH JACKSON HWY ROADWAY CONSTRUCTION
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE SOUTH JACKSON HWY TYPICAL SECTIONS ON SHEET 14 OF 22 AND SHEET 15 OF 22
   275.00 C.Y. ROADWAY EXCAVATION INCL. HAUL
   170.00 C.Y. NATIVE FILL
   170.00 C.Y. EMBANKMENT COMPACTION
   1500.00 TON SELECT BORROW
   375.00 TON CRUSHED SURFACING BASE COURSE
   105.00 TON CRUSHED SURFACING TOP COURSE
   145.00 TON HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED
   245.00 S.Y. TOPSOIL TYPE C

6. STA 1+09.85 LEFT (SOUTH JACKSON HWY)
   REMOVE EXISTING GUARDRAIL AND ANCHORS
   150.00 L.F. REMOVING GUARDRAIL
   2.00 EACH REMOVING GUARDRAIL ANCHOR

7. STA 2+00.60 LEFT (SOUTH JACKSON HWY)
   CONSTRUCT BEAM GUARDRAIL (TYPE 31) ANCHOR TYPE 10
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE WSDOT STANDARD PLAN C-23.60-04
   1.00 EACH BEAM GUARDRAIL ANCHOR TYPE 10

8. STA 2+18.60 RIGHT (SOUTH JACKSON HWY)
   BEGIN SHOULDER AND GUARDRAIL LANDING
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE SOUTH JACKSON HWY GUARDRAIL STAKING TABLE ON SHEET 14 OF 22
   CRUSHED SURFACING BASE COURSE QUANTITY IS INCLUDED IN SOUTH JACKSON HWY ROADWAY CONSTRUCTION NOTE 5 ON THIS SHEET

9. DITCH ALIGNMENT STA 1+76.90
   CONSTRUCT CATCH BASIN TYPE 2
   REMOVE CONCRETE WALL AS NEEDED
   SEE EAST DITCH PLAN AND PROFILE ON SHEET 10 OF 22

CONSTRUCTION NOTES

10. STA 2+23.58 (SOUTH JACKSON HWY)
    PLUG EXISTING 36 IN. CONCRETE CULVERT PIPE
    L.S. PLUGGING EXISTING PIPE

11. STA 2+49.47 TO STA 2+60.00 (SOUTH JACKSON HWY)
    BEGIN PLANING BITUMINOUS
    TO BE STAKED IN THE FIELD BY THE ENGINEER
    SEE SOUTH JACKSON HWY TYPICAL SECTION (A) ON SHEET 14 OF 22
    FOR QUANTITY SEE CONSTRUCTION NOTE 4 ON THIS SHEET

12. STA 2+50.35 RIGHT (SOUTH JACKSON HWY)
    CONSTRUCT BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (ALL POSTED SPEEDS)
    TO BE STAKED IN THE FIELD BY THE ENGINEER
    SEE CALVIN ROAD PLAN & PROFILE FOR REMAINING GUARDRAIL QUANTITIES ON RIGHT SIDE OF SOUTH JACKSON HIGHWAY
    SEE WSDOT STANDARD PLAN C-22.40-07
    1.00 EACH BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL

13. STA 2+95.00 RIGHT (SOUTH JACKSON HWY)
    CONSTRUCT HIGH VISIBILITY SILT FENCE
    SEE BMP PLAN AND PLANTING PLANE ON SHEET 4 OF 22

14. STA 2+97.58 RIGHT (SOUTH JACKSON HWY)
    REMOVE EXISTING GUARDRAIL AND ANCHORS
    162.50 L.F. REMOVING GUARDRAIL
    2.00 EACH REMOVING GUARDRAIL ANCHOR

15. STA 3+07.90 LEFT (SOUTH JACKSON HWY)
    CONSTRUCT SCHEDULE A 18 IN. DIAM. APPROACH CULVERT PIPE
    SEE EAST DITCH PLAN AND PROFILE ON SHEET 10 OF 22

16. APPROXIMATE STA 3+12.98 LEFT AND APPROXIMATE STA 3+76.17 LEFT
    REMOVE AND RESET MAILBOX
    PLACE MAILBOX IN TEMPORARY STANDS AS NEEDED
    TO BE STAKED IN THE FIELD BY THE ENGINEER
    SEE WSDOT STANDARD PLAN H-70.10-01
    2 EACH MAILBOX SUPPORT TYPE 1

17. STA 3+07.90 LEFT TO STA 3+76.80 LEFT
    CONSTRUCT V DITCH
    SEE EAST DITCH PLAN AND PROFILE ON SHEET 10 OF 22

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DRAWN BY : CGA
CHECKED BY :
DATE :

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

JACKSON HIGHWAY SOUTH
PLAN AND PROFILE

SHEET 6 OF 22

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Senior Engineer/Design
Date: 3-4-2020

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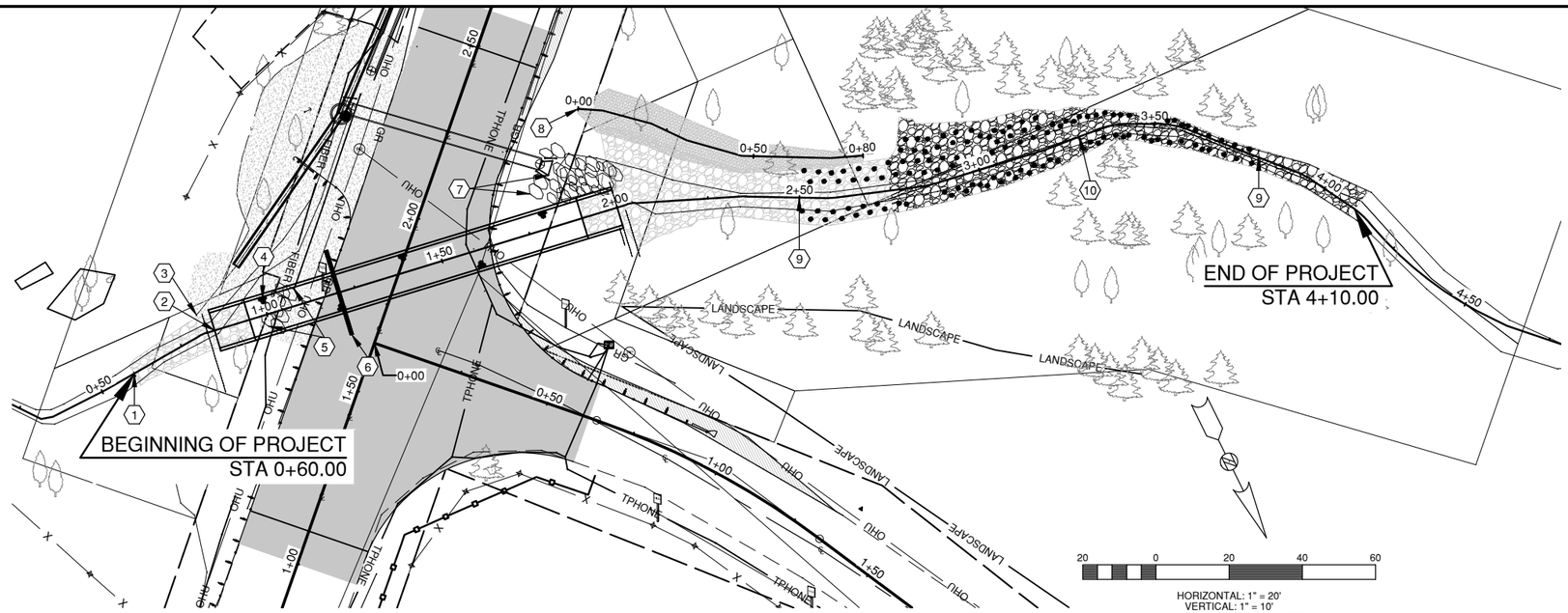
5-23-21



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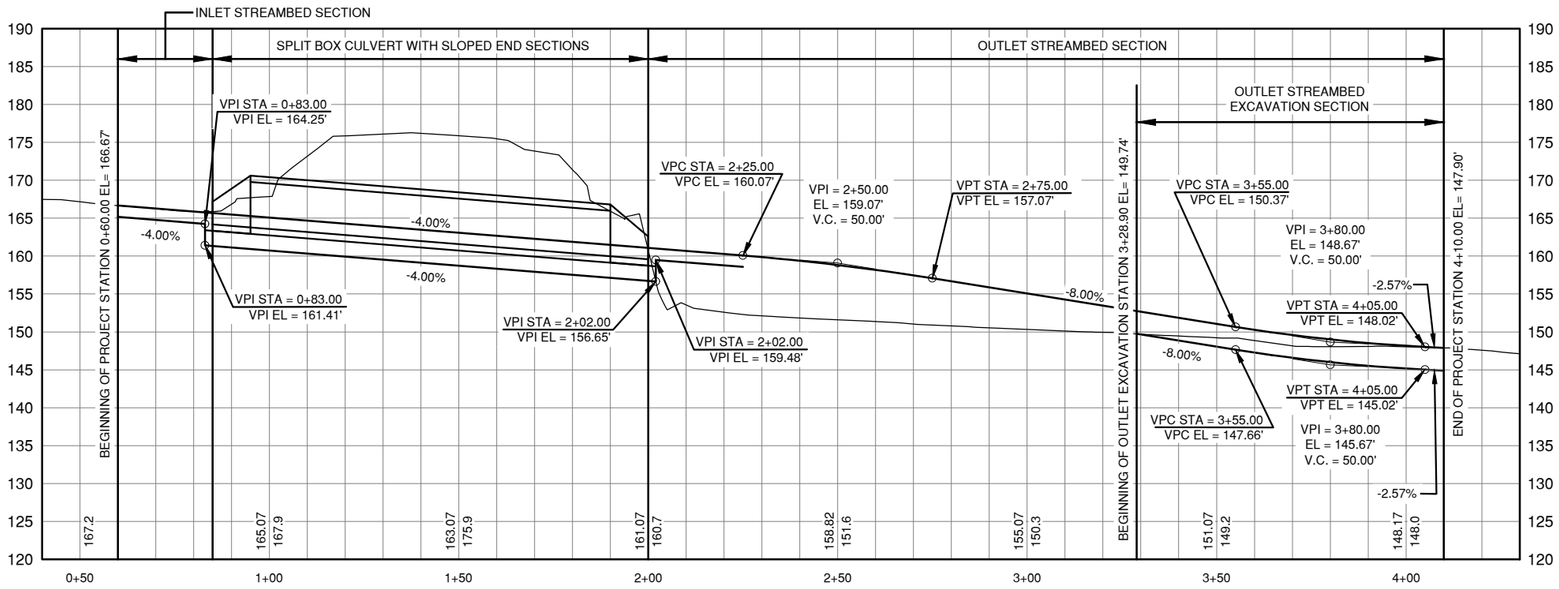
VERTICAL: 1" = 10'
SCALE IS FOR FULL SIZE SHEETS



CONSTRUCTION NOTES

1. STA 0+60.00 TO STA 4+10.00 (STREAMBED)
   CONSTRUCT NEW STREAMBED
   STA 0+60.00 TO STA 2+75.00 STREAMBED MIX SHALL BE PLACED
   STA 2+75.00 TO STA 4+10.00 CASCADE IX SHALL BE PLACED
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE STREAMBED INLET TYPICAL SECTION AND STREAMBED OUTLET TYPICAL SECTION (A) & STREAMBED OUTLET TYPICAL SECTION (B) ON SHEET 12 OF 22
   50 C.Y. CHANNEL EXCAVATION INCL. HAUL
   300 EACH STREAMBED BOULDER ONE MAN
   195 TON CASCADE MIX
   455 TON STREAMBED MIX
   238 TON STREAMBED SEDIMENT

2. STA 0+85.00 TO STA 2+00.00 (STREAMBED)
   CONSTRUCTION PRECAST REINF. CONC. SPLIT BOX CULVERT 10' WIDE 6' HIGH 95' LONG WITH 10' LONG SLOPED END SECTIONS
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE PRECAST REINF. CONC. SPLIT BOX CULVERT TYPICAL SECTION ON SHEET 11 OF 22
   SEE PRECAST REINF. CONC. SPLIT BOX CULVERT WITH SLOPED END SECTIONS DETAIL ON SHEET 11 OF 22
   1490 C.Y. STRUCTURE EXCAVATION CLASS A INCL. HAUL
   165 C.Y. GRAVEL BACKFILL FOR FOUNDATION CLASS A
   1500 TON SELECT BORROW INCL. HAUL
   L.S. PRECAST REINF. CONC. SPLIT BOX CULVERT WITH 10' LONG SLOPED END SECTIONS

3. STA 2+44.71 (EAST DITCH)
   EAST DITCH OUTLET
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE EAST DITCH PLAN AND PROFILE & CULVERT INVERTS ON SHEET 10 OF 22
   SEE EAST DITCH TYPICAL SECTIONS ON SHEET 16 OF 22

4. STA 0+95.00 TO STA 1+90.00 (STREAMBED)
   CONSTRUCT STREAMBED BOULDER ONE MAN BARBS
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE PRECAST REINF. CONC. SPLIT BOX CULVERT BARB DETAIL ON SHEET 11 OF 22
   STREAMBED BOULDER ONE MAN QUANTITY IS INCLUDED IN CONSTRUCTION NOTE 1 ON THIS SHEET

5. APPROXIMATE STA 1+00.00 (STREAMBED)
   REMOVE CONCRETE WALL (AS NEEDED) AND CONCRETE DEBRIS FOR CLEARING AND GRUBBING AND SPLIT BOX CULVERT EXCAVATION
   L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS

6. STA 1+20.00 TO STA 1+21.00 (STREAMBED)
   CONSTRUCT CUT OFF WALL
   SEE CUT OFF WALL DETAIL ON SHEET 18 OF 22
   L.S. CUT OFF WALL

7. APPROXIMATE STA 1+84.53 LEFT (STREAMBED)
   REMOVE CONCRETE WING WALLS AND CONCRETE DEBRIS ON ROADWAY SLOPE AND BOTTOM OF STREAMBED WHERE GRAVEL BACKFILL FOR FOUNDATION CLASS A IS TO BE PLACED
   L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS

8. STA 0+00.00 TO STA 0+79.96 LEFT (STREAM BERM)
   CONSTRUCT LEFT OUTLET STREAM BERM
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   STREAMBED OUTLET TYPICAL SECTION ON SHEET 12 OF 22
   28 C.Y. NATIVE FILL
   28 C.Y. EMBANKMENT COMPACTION

9. STA 2+50.00 TO STA 3+80.00 (STREAMBED)
   CONSTRUCT RANDOMLY PLACED STREAMBED BOULDER ONE MAN
   TO BE STAKED IN THE FILED BY ENGINEER
   STREAMBED BOULDER ONE MAN QUANTITY IS INCLUDED IN CONSTRUCTION NOTE 1 ON THIS SHEET

10. STA 3+28.90 TO STA 4+10.00 (STREAMBED)
    CONSTRUCT STREAMBED OUTLET EXCAVATION
    TO BE STAKED IN THE FIELD BY THE ENGINEER
    CHANNEL EXCAVATION INCL. HAUL QUANTITY IS INCLUDED IN CONSTRUCTION NOTE 1 ON THIS SHEET

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

STREAMBED AND SPLIT BOX CULVERT PLAN AND PROFILE

SHEET 7 OF 22

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Senior Engineer/Design
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5-23-21

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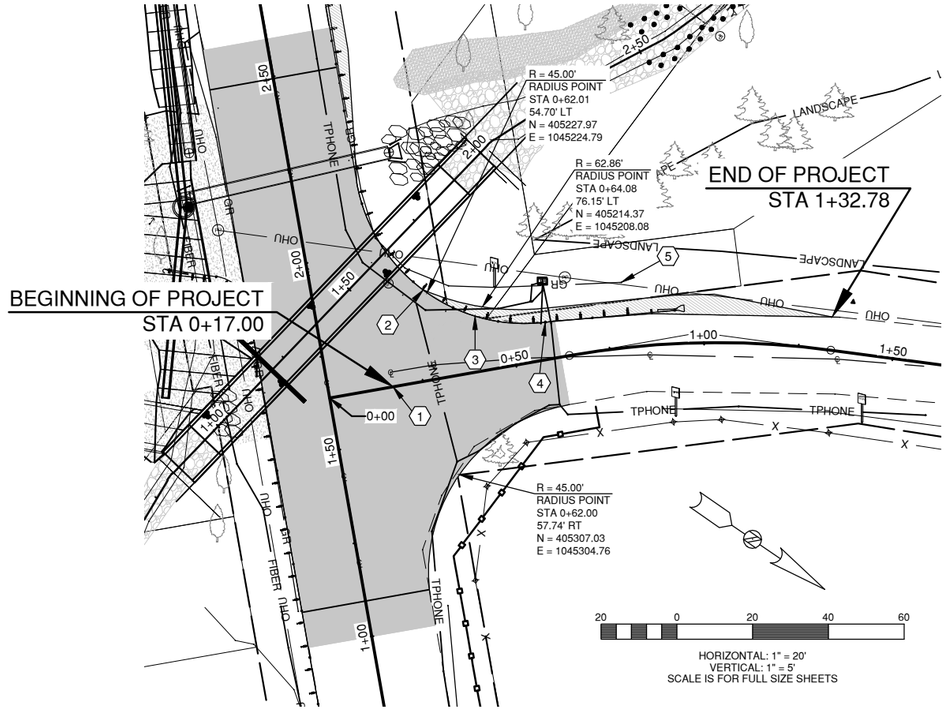

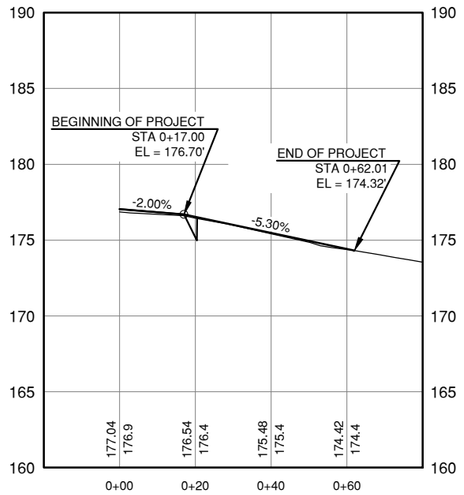

CONSTRUCTION NOTES

1. STA 0+17.00 TO STA 0+62.01 (CALVIN ROAD)
   BEGIN CALVIN ROAD CONSTRUCTION
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE CALVIN ROAD TYPICAL SECTION ON SHEET 17 OF 22
   SEE BUTT JOINT DETAIL ON SHEET 18 OF 22
   155 C.Y. ROADWAY EXCAVATION INCL. HAUL
   160 TON CRUSHED SURFACING BASE COURSE
   45 TON CRUSHED SURFACING TOP COURSE
   50 TON HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED

2. STA 0+29.34 TO STA 1+32.78 LEFT (CALVIN ROAD)
   CONSTRUCT SHOULDER AND GUARDRAIL LANDING
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE CALVIN ROAD GUARDRAIL STAKING TABLE ON SHEET 17 OF 22
   CRUSHED SURFACING BASE COURSE QUANTITY IS INCLUDED IN CALVIN ROAD CONSTRUCTION NOTE 1 ON THIS SHEET

3. STA 0+41.60 LEFT (CALVIN ROAD)
   CONSTRUCT BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST TO FOLLOW ALONG SOUTH JACKSON HWY
   CONSTRUCT BEAM GUARDRAIL TYPE 31 TO FOLLOW ALONG CALVIN ROAD
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE WSDOT STANDARD PLAN C-20.10-05
   87.50 L.F. BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST
   18.75 L.F. BEAM GUARDRAIL TYPE 31

4. STA 0+68.74 LEFT (CALVIN ROAD)
   CONSTRUCT BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (POSTED SPEED 45 MPH AND BELOW)
   SEE WSDOT STANDARD PLAN C-22.45-04
   1.00 EACH BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL

5. STA 0+79.96 LEFT (CALVIN ROAD)
   REMOVE EXISTING GUARDRAIL AND ANCHORS
   SEE CONSTRUCTION NOTE 16 ON JACKSON HIGHWAY SOUTH PLAN & PROFILE SHEET 6 OF 22 FOR QUANTITY

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JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

CALVIN ROAD
PLAN AND PROFILE

SHEET 8 OF 22

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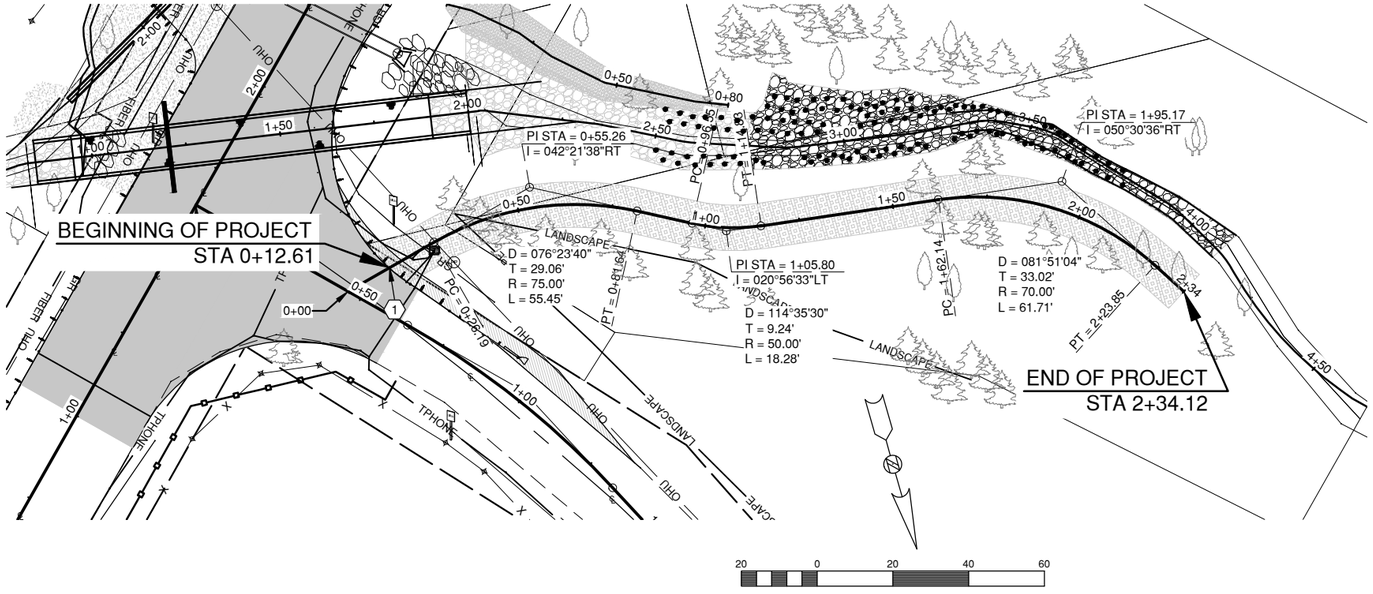
5/31/21

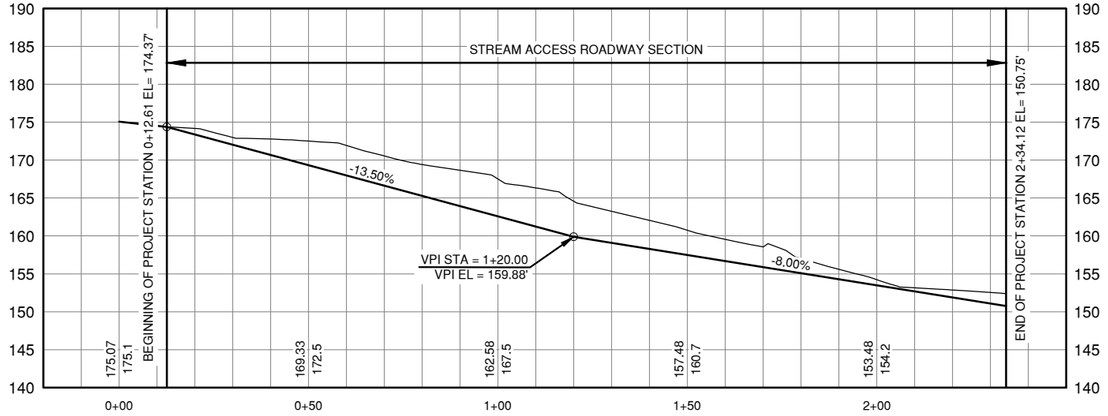


HORIZONTAL: 1" = 20'
VERTICAL: 1" = 10'
SCALE IS FOR FULL SIZE SHEETS

CONSTRUCTION NOTES

(1) STA 0+12.61 TO STA 2+34.12 (STREAM ACCESS ROAD)
CONSTRUCT STREAM ACCESS ROAD
TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE STREAM ACCESS ROAD TYPICAL SECTIONS ON SHEET 13 OF 22

NOTE
STREAM ACCESS ROAD QUANTITIES ARE FOR BID PURPOSES ONLY
500 C.Y. STREAM ACCESS ROAD EXCAVATION
385 C.Y. NATIVE MATERIAL BACKFILL
90 TON CRUSHED SURFACING MATERIAL (IF NEEDED)
TREE REMOVAL QUANTITY IS INCLUDED ON BMP PLAN PLANTING PLAN ON SHEET 4 OF 22



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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

STREAM ACCESS ROAD
PLAN AND PROFILE

SHEET 9 OF 22

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Senior Engineer/Design
Date: 3-4-2020

DONALD J CARNEY STATE OF WASHINGTON 23321 REGISTERED PROFESSIONAL ENGINEER
5-23-21

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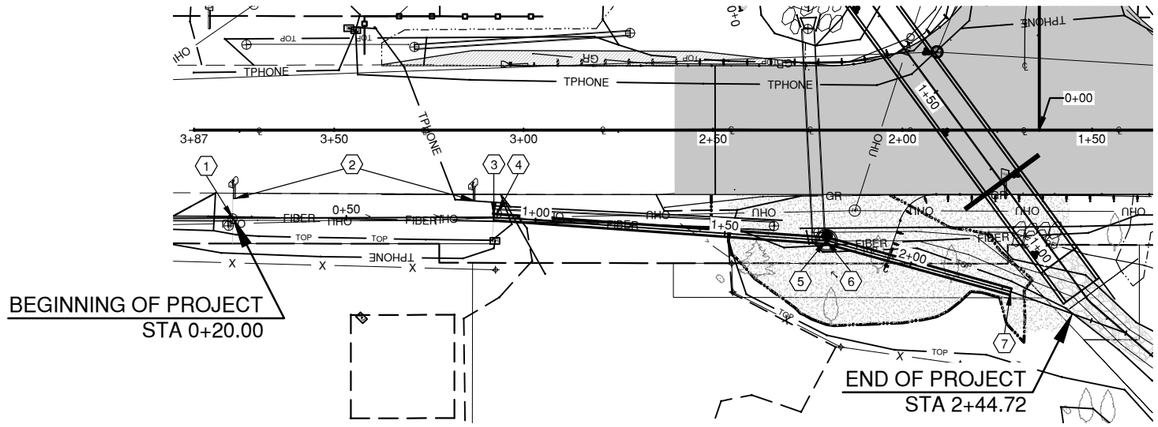
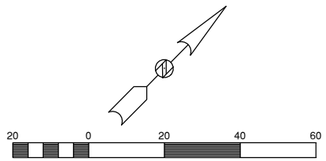
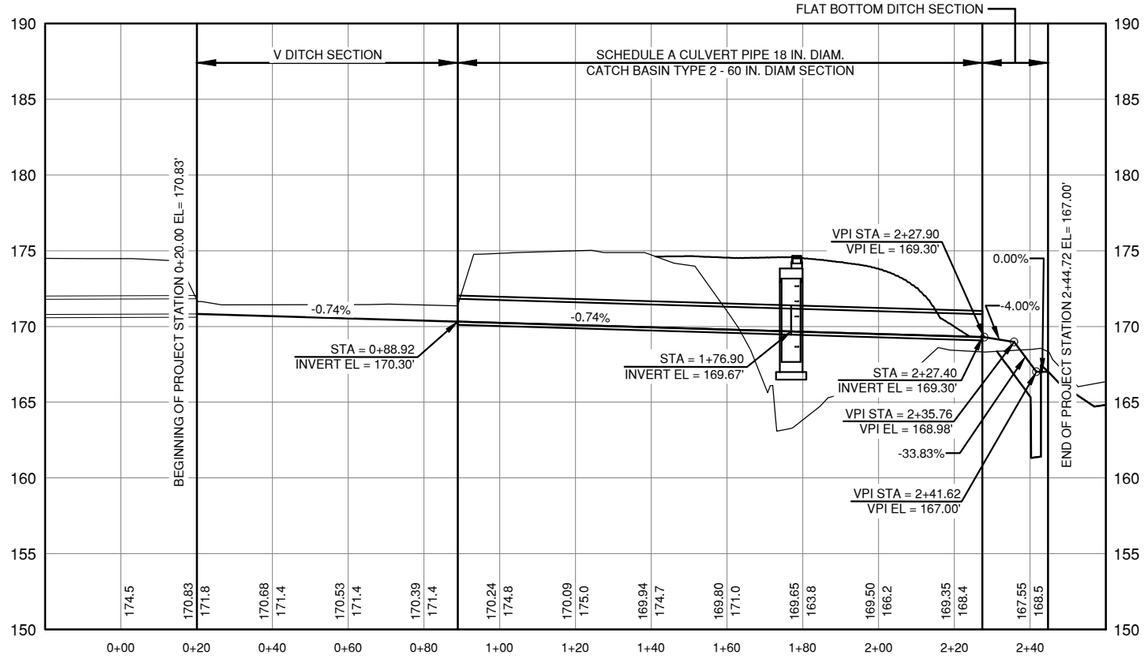




HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'
SCALE IS FOR FULL SIZE SHEETS



CONSTRUCTION NOTES

1. STA 0+20.00 TO STA 0+88.92 (DITCH)
   CONSTRUCT NEW V DITCH
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE V DITCH TYPICAL SECTION ON SHEET 16 OF 22
   15 C.Y. DITCH EXCAVATION INCL. HAUL

2. REMOVE AND RESET MAILBOX
   SEE CONSTRUCTION NOTE 16 JACKSON HIGHWAY SOUTH PLAN AND PROFILE SHEET 6 OF 22

3. STA 0+88.92 TO STA 1+76.90 (DITCH)
   CONSTRUCT SCHEDULE A CULVERT PIPE 18 IN. DIAM
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE CULVERT EXCAVATION TYPICAL SECTION ON SHEET 16 OF 22
   STA 0+88.92 INVERT EL = 170.32'
   STA 1+76.90 INVERT EL = 169.67'
   88 L.F. SCHEDULE A CULV. PIPE 18 IN. DIAM.
   90 C.Y. STRUCTURE EXCAVATION CLASS B INCL. HAUL

4. STA 0+89.75 TO STA 1+62.90 (DITCH)
   REMOVE EXISTING CULVERT PIPE (18 IN. CONCRETE ONE END AND 24 IN. PLASTIC OTHER END CULVERT PIPE)
   SEE CULVERT EXCAVATION TYPICAL SECTION ON SHEET 16 OF 22
   STRUCTURE EXCAVATION CLASS B INCL. HAUL QUANTITY IS INCLUDED IN CONSTRUCTION NOTE 2 ON THIS SHEET
   NATIVE FILL AND EMBANKMENT COMPACTION QUANTITIES IS INCLUDED IN CONSTRUCTION NOTE 7 ON THIS SHEET

5. STA 1+76.90 CENTER OF BASIN (DITCH)
   CONSTRUCTION CATCH BASIN TYPE 2 - 60 IN. DIAM.
   TO BE STAKED IN THE FIELD BY THE ENGINEER.
   REMOVE EXISTING CONCRETE WALL AS NEED
   RIM EL = 174.66'
   FOR PIPE INVERTS SEE CONSTRUCTION NOTE 3 AND 6 ON THIS SHEET
   SEE WSDOT STANDARD PLAN B-10.20-02
   REMOVAL OF CONCRETE WALL SHALL BE PAID IN REMOVAL OF STRUCTURE AND OBSTRUCTIONS
   1 EACH CATCH BASIN TYPE 2 - 60 IN. DIAM.
   L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS

6. STA 1+76.90 TO STA 2+27.40 (DITCH)
   CONSTRUCT SCHEDULE A CULVERT PIPE 18 IN. DIAM
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   STA 1+76.90 INVERT EL = 169.67'
   STA 2+27.40 INVERT EL = 169.30'
   50 L.F. SCHEDULE A CULV. PIPE 18 IN. DIAM.
   NATIVE FILL AND EMBANKMENT COMPACTION QUANTITIES IS INCLUDED IN CONSTRUCTION NOTE 7 ON THIS SHEET

7. STA 2+27.40 TO STA 2+44.72 (DITCH)
   CONSTRUCT FLAT BOTTOM DITCH FROM NATIVE FILL
   TO BE STAKED IN THE FIELD BY THE ENGINEER
   SEE DITCH TYPICAL SECTIONS ON SHEET 16 OF 22
   152 C.Y. NATIVE FILL
   152 C.Y. EMBANKMENT COMPACTION

NOTE

DITCH STATION 0+20.00 IS EQUAL TO JACKSON HIGHWAY SOUTH STATION 3+76.80 LEFT

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
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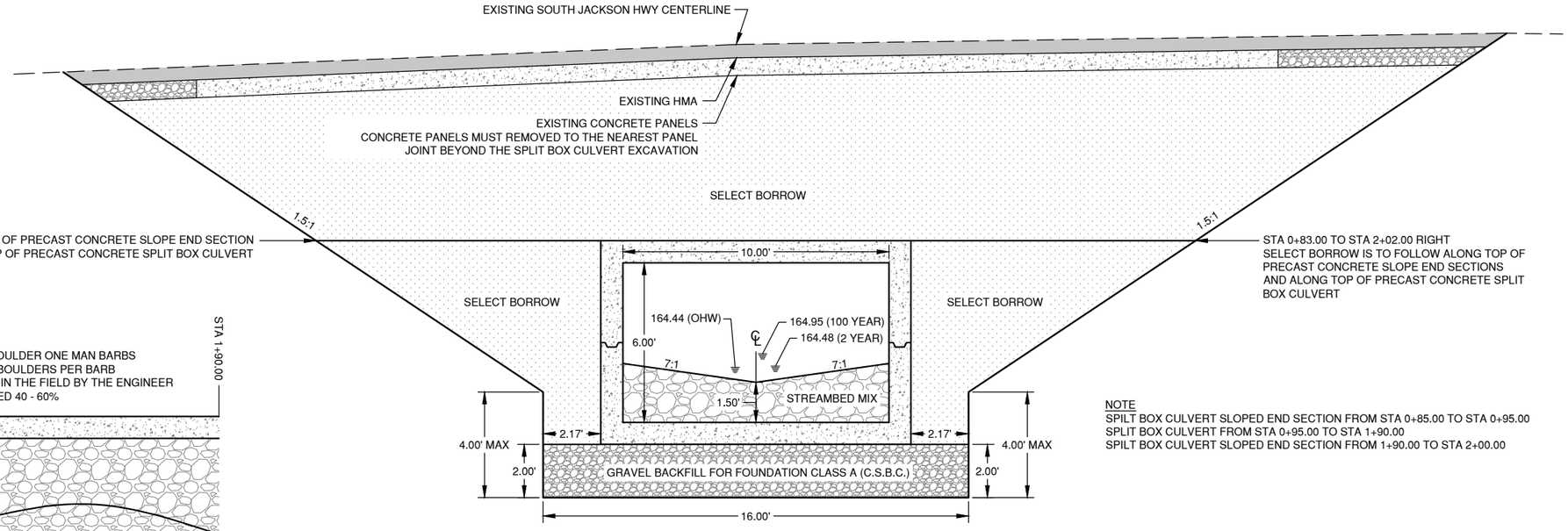
EAST DITCH PLAN AND PROFILE

SHEET 10 OF 22

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020



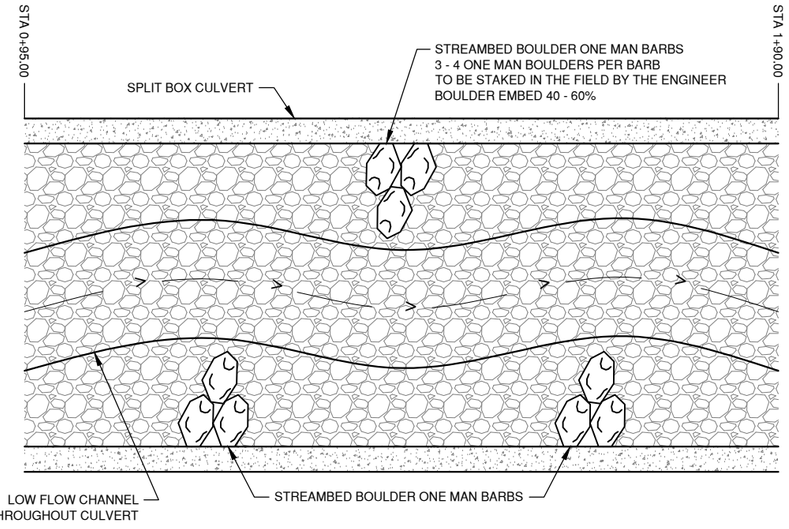
NOTE
SPILT BOX CULVERT SLOPED END SECTION FROM STA 0+85.00 TO STA 0+95.00
SPLIT BOX CULVERT FROM STA 0+95.00 TO STA 1+90.00
SPILT BOX CULVERT SLOPED END SECTION FROM 1+90.00 TO STA 2+00.00

SPLIT BOX CULVERT TYPICAL SECTION (A)

STREAMBED STATION 0+83.00 TO STREAMBED STATION 1+85.80
NOT TO SCALE

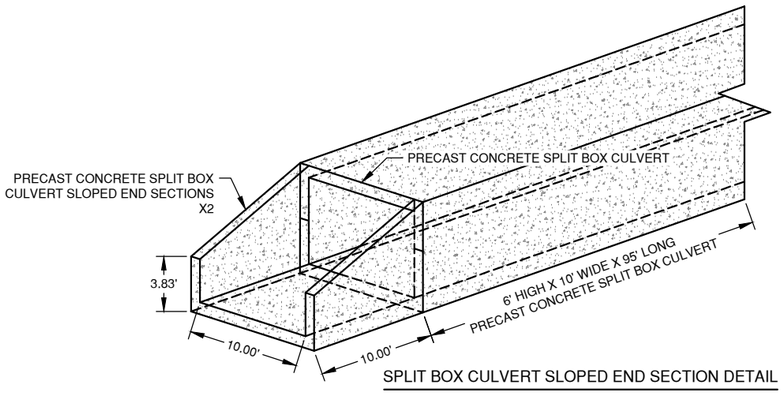
NOTE
STREAMBED MIX : 1 PART 12 IN. COBBLES, 2 PART 6 IN. COBBLES, AND 1 PART STREAMBED SEDIMENT.
CASCADE MIX: 3 PART 12 IN. COBBLES AND 1 PART STREAMBED SEDIMENT.

STREAMBED SEDIMENT IS TO PROVIDE STABILITY TO THE STREAMBED MIX AND CASCADE MIX AND TO BE PLACED IN AREA OF VOIDS TO CREATE A UNIFORM NON-POROUS BED.



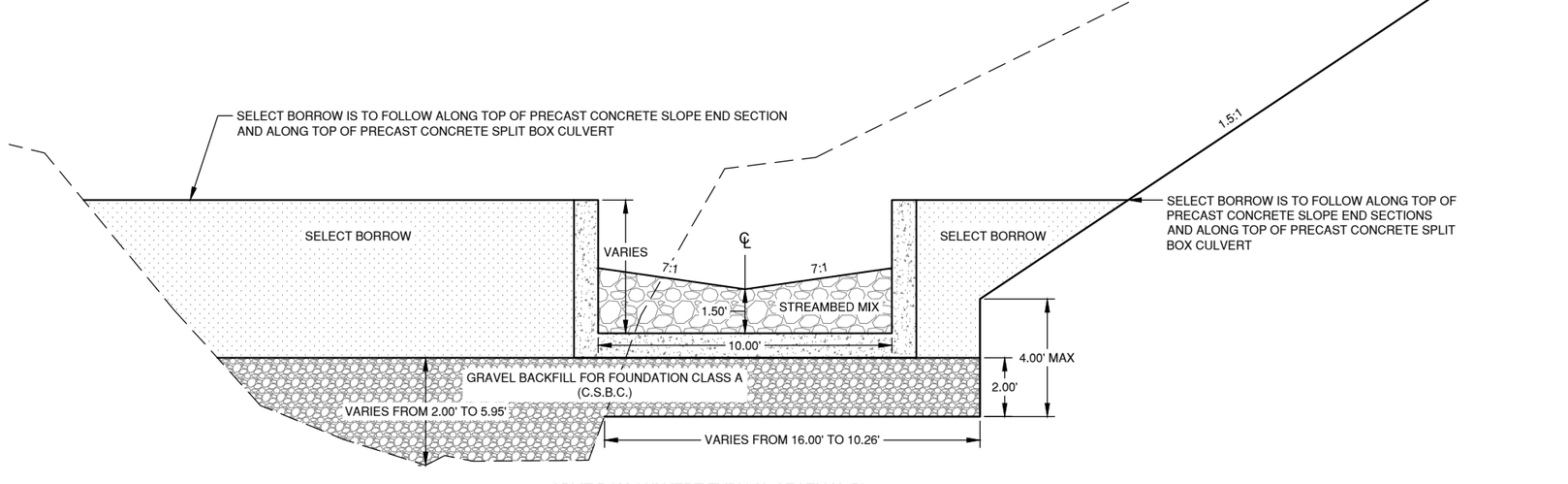
SPLIT BOX CULVERT BARB DETAIL

STREAMBED STATION 0+95 TO STREAMBED STATION 1+95.00
NOT TO SCALE



SPLIT BOX CULVERT SLOPED END SECTION DETAIL

STREAMBED STATION 0+85.00 TO STREAMBED STATION 0+95.00
STREAMBED STATION 1+90.00 TO STREAMBED STATION 2+00.00
NOT TO SCALE



SPLIT BOX CULVERT TYPICAL SECTION (B)

STREAMBED STATION 1+85.80 TO STREAMBED STATION 2+02.00
NOT TO SCALE

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RAP PROJECT NO: 2117-01
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SPLIT BOX CULVERT TYPICAL SECTION (A)
SPLIT BOX CULVERT TYPICAL SECTION (B)
SPLIT BOX CULVERT SLOPED END SECTION DETAIL
SPLIT BOX CULVERT BARB DETAIL

SHEET 11 OF 22

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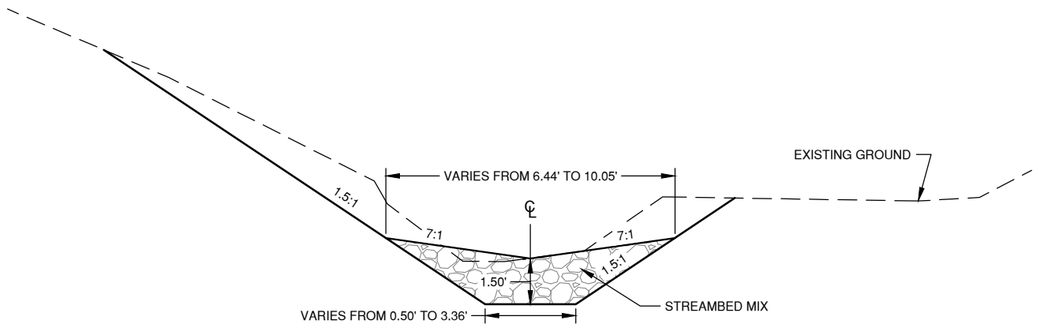
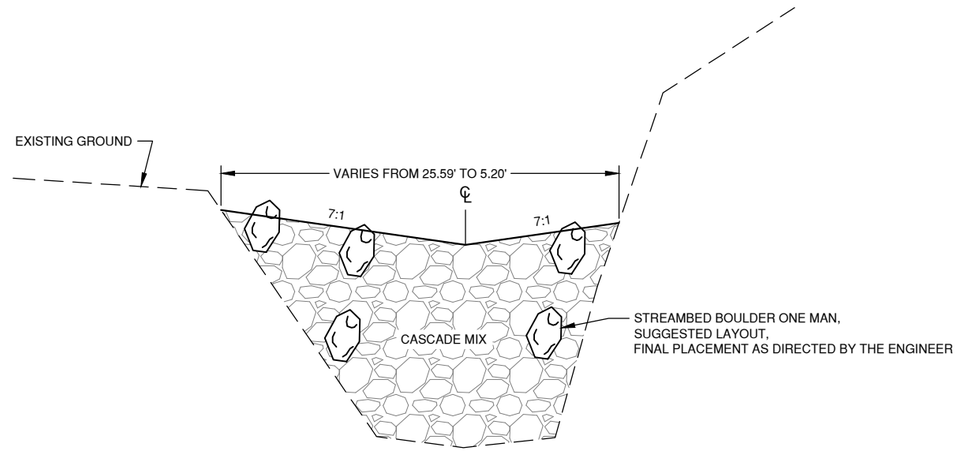
3-3-21



STREAMBED INLET TYPICAL SECTION

STREAMBED STATION 0+60.00 TO STREAMBED STATION 0+83.00
NOT TO SCALE

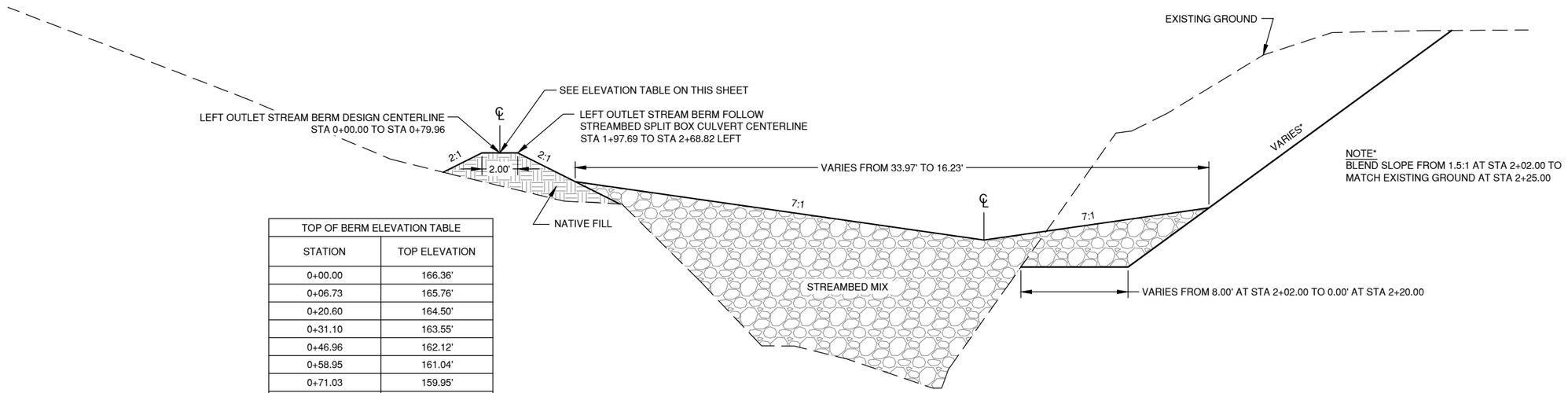


STREAMBED OUTLET TYPICAL SECTION (B)

STREAMBED STATION 2+75.00 TO STREAMBED STATION 4+10.00
NOT TO SCALE

NOTE
STREAMBED MIX : 1 PART 12 IN. COBBLES, 2 PART 6 IN. COBBLES, AND 1 PART STREAMBED SEDIMENT.
CASCADE MIX: 3 PART 12 IN. COBBLES AND 1 PART STREAMBED SEDIMENT.

ADDITIONAL STREAMBED SEDIMENT IS TO PROVIDE STABILITY TO THE STREAMBED MIX AND CASCADE MIX AND TO BE PLACED IN AREA OF VOIDS TO CREATE A UNIFORM NON-POROUS BED.



NOTE*
BLEND SLOPE FROM 1.5:1 AT STA 2+02.00 TO MATCH EXISTING GROUND AT STA 2+25.00

TOP OF BERM ELEVATION TABLE	
STATION	TOP ELEVATION
0+00.00	166.36'
0+06.73	165.76'
0+20.60	164.50'
0+31.10	163.55'
0+46.96	162.12'
0+58.95	161.04'
0+71.03	159.95'
0+79.96	159.14'

STREAMBED OUTLET TYPICAL SECTION (A)

STREAMBED STATION 2+02.00 TO STREAMBED STATION 2+75.00
NOT TO SCALE

Lewis County
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FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

STREAMBED INLET TYPICAL SECTION
STREAMBED OUTLET TYPICAL SECTION (A)
STREAMBED OUTLET TYPICAL SECTION (B)

SHEET 12 OF 22

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Senior Engineer/Design
Date: 3-4-2020

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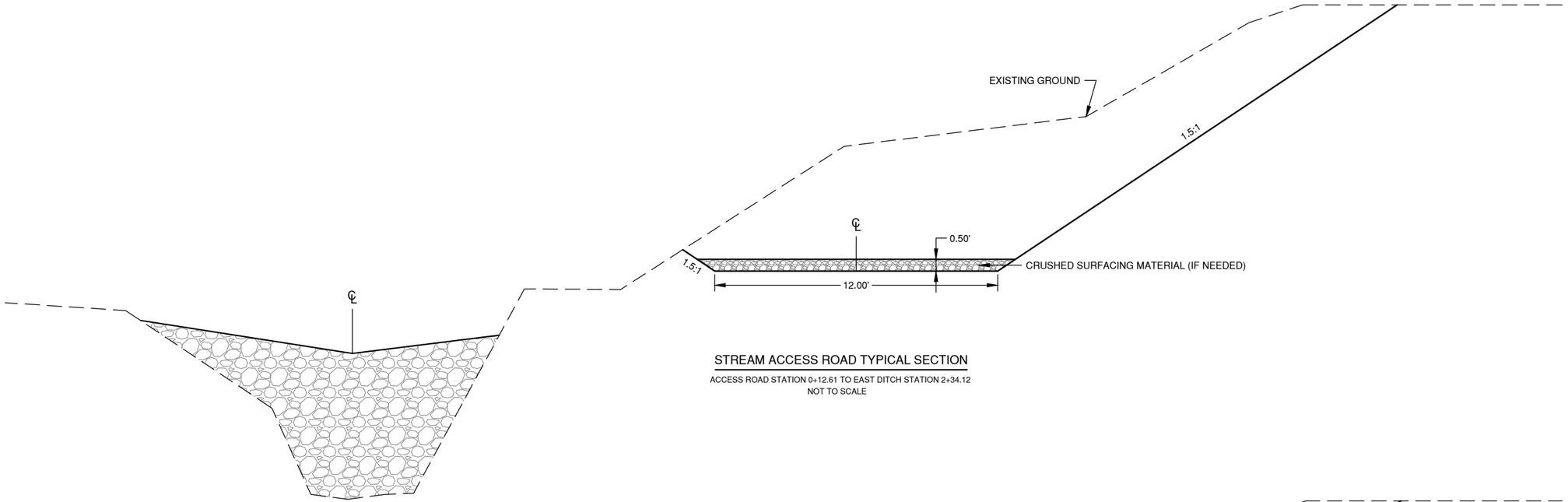
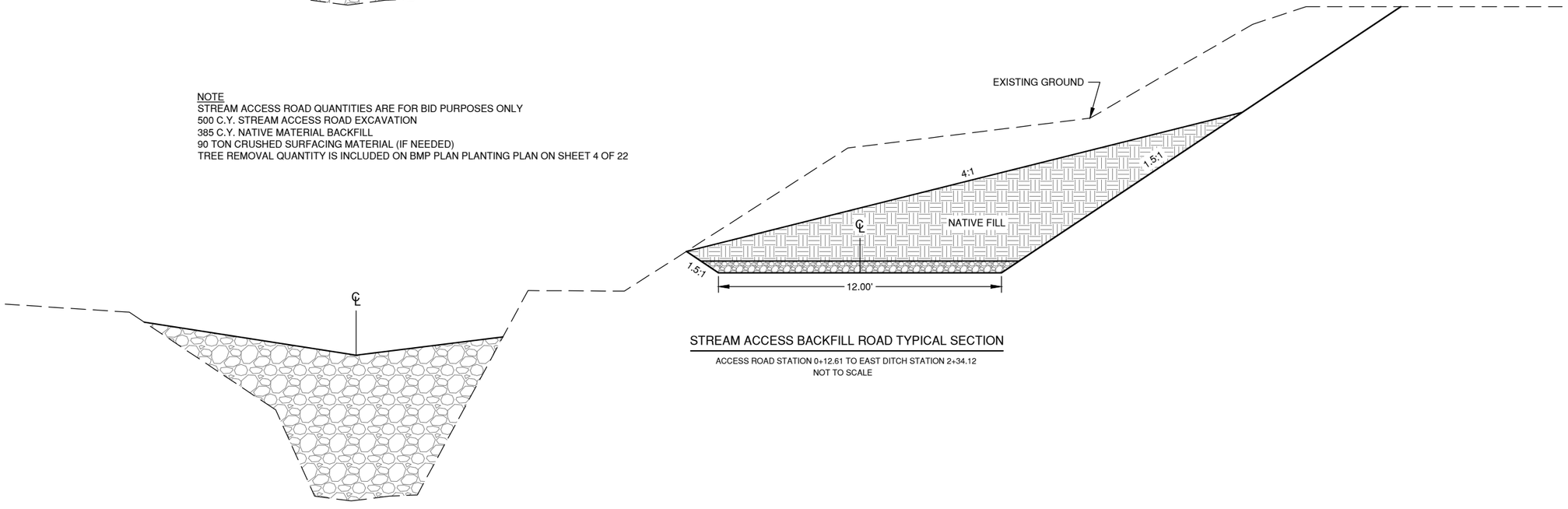


STREAM ACCESS ROAD TYPICAL SECTION

ACCESS ROAD STATION 0+12.61 TO EAST DITCH STATION 2+34.12
NOT TO SCALE

NOTE
STREAM ACCESS ROAD QUANTITIES ARE FOR BID PURPOSES ONLY
500 C.Y. STREAM ACCESS ROAD EXCAVATION
385 C.Y. NATIVE MATERIAL BACKFILL
90 TON CRUSHED SURFACING MATERIAL (IF NEEDED)
TREE REMOVAL QUANTITY IS INCLUDED ON BMP PLAN PLANTING PLAN ON SHEET 4 OF 22



STREAM ACCESS BACKFILL ROAD TYPICAL SECTION

ACCESS ROAD STATION 0+12.61 TO EAST DITCH STATION 2+34.12
NOT TO SCALE

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DATE :

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

STREAM ACCESS ROAD TYPICAL SECTION
STREAM ACCESS BACKFILL ROAD TYPICAL SECTION

SHEET 13 OF 22

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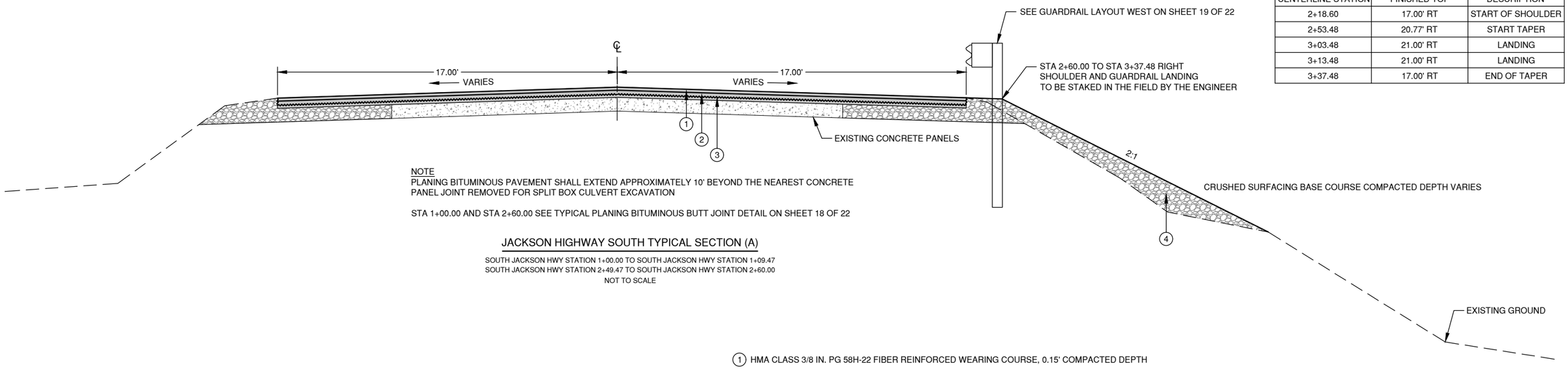
Senior Engineer/Design
Date: 3-4-2020

DONALD J CARNEY
STATE OF WASHINGTON
#42763
REGISTERED PROFESSIONAL ENGINEER
5-23-21

3/3/2020 3:10 PM

S:\Engineer\Design\JACKSON HWY S CULVERT 2167C\JACKSON S 2167C NEW DESIGN 2-14-2019 (MOVE PIPE 5 FT & END SECTIONS).dwg

SOUTH JACKSON HWY GUARDRAIL STAKING TABLE		
SOUTH JACKSON HWY CENTERLINE STATION	OFFSET TO FINISHED TOP	GUARDRAIL DESCRIPTION
2+18.60	17.00' RT	START OF SHOULDER
2+53.48	20.77' RT	START TAPER
3+03.48	21.00' RT	LANDING
3+13.48	21.00' RT	LANDING
3+37.48	17.00' RT	END OF TAPER



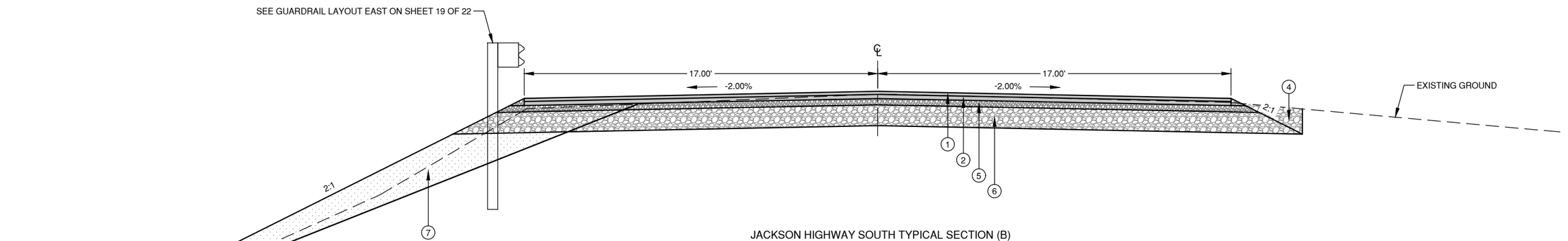
NOTE
PLANING BITUMINOUS PAVEMENT SHALL EXTEND APPROXIMATELY 10' BEYOND THE NEAREST CONCRETE PANEL JOINT REMOVED FOR SPLIT BOX CULVERT EXCAVATION

STA 1+00.00 AND STA 2+60.00 SEE TYPICAL PLANING BITUMINOUS BUTT JOINT DETAIL ON SHEET 18 OF 22

JACKSON HIGHWAY SOUTH TYPICAL SECTION (A)

SOUTH JACKSON HWY STATION 1+00.00 TO SOUTH JACKSON HWY STATION 1+09.47
SOUTH JACKSON HWY STATION 2+49.47 TO SOUTH JACKSON HWY STATION 2+60.00
NOT TO SCALE

(1) HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED WEARING COURSE, 0.15' COMPACTED DEPTH
(2) HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED LEVELING COURSE, 0.20' COMPACTED DEPTH
(3) PLANING BITUMINOUS PAVEMENT, DEPTH 0.35' OR DIRECTED BY THE ENGINEER
(4) CRUSHED SURFACING BASE COURSE COMPACTED DEPTH VARIES
(5) CRUSHED SURFACING TOP COURSE, 0.30' COMPACTED DEPTH
(6) CRUSHED SURFACING BASE COURSE, 1.00' COMPACTED DEPTH
(7) SELECT BORROW INCL. HAUL, COMPACTED DEPTH VARIES
(8) NATIVE FILL, COMPACTED DEPTH VARIES
(9) TOPSOIL TYPE C, COMPACTED DEPTH VARIES



JACKSON HIGHWAY SOUTH TYPICAL SECTION (B)

SOUTH JACKSON HWY STATION 1+09.47 TO SOUTH JACKSON HWY STATION 1+56.00
NOT TO SCALE

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

JACKSON HIGHWAY SOUTH TYPICAL SECTION (A)
JACKSON HIGHWAY SOUTH TYPICAL SECTION (B)

SHEET 14 OF 22

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Senior Engineer/Design
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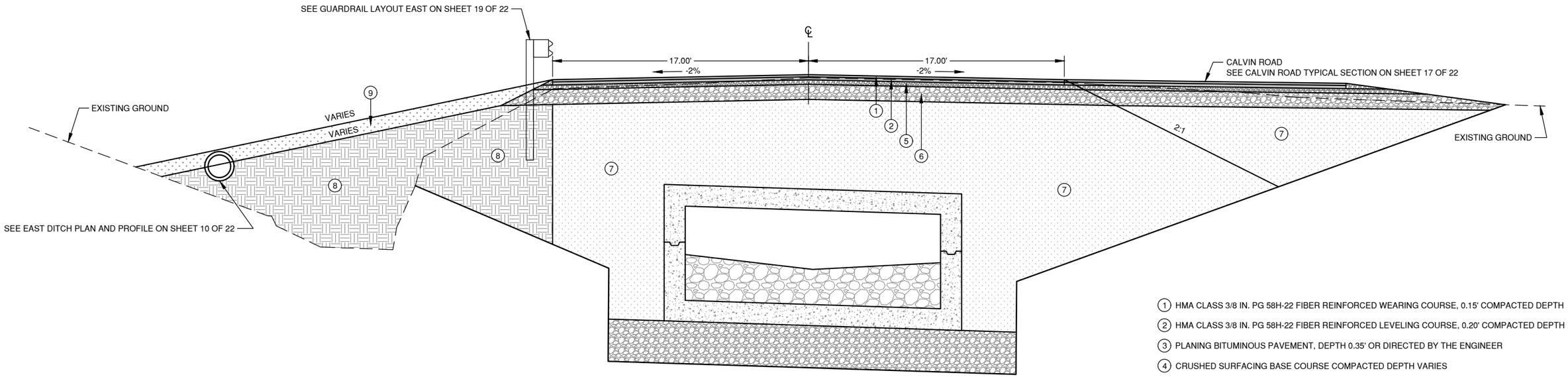
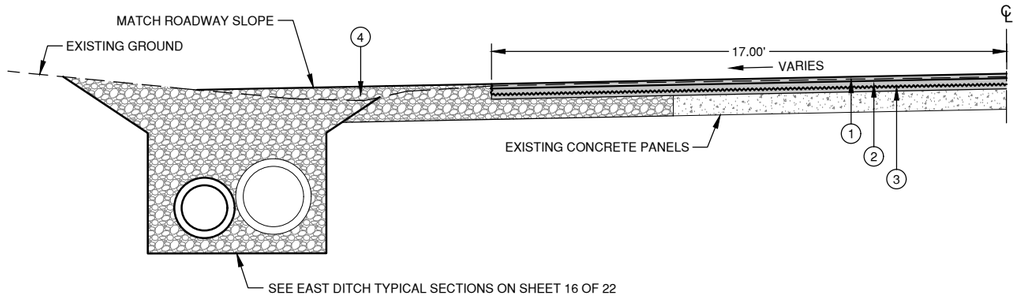
DONALD J CARNEY
STATE OF WASHINGTON
#42763
REGISTERED PROFESSIONAL ENGINEER



JACKSON HIGHWAY SOUTH TYPICAL SECTION (C)

SOUTH JACKSON HWY STATION 1+56.00 TO SOUTH JACKSON HWY STATION 2+49.47
NOT TO SCALE

1. HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED WEARING COURSE, 0.15' COMPACTED DEPTH
2. HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED LEVELING COURSE, 0.20' COMPACTED DEPTH
3. PLANING BITUMINOUS PAVEMENT, DEPTH 0.35' OR DIRECTED BY THE ENGINEER
4. CRUSHED SURFACING BASE COURSE COMPACTED DEPTH VARIES
5. CRUSHED SURFACING TOP COURSE, 0.30' COMPACTED DEPTH
6. CRUSHED SURFACING BASE COURSE, 1.00' COMPACTED DEPTH
7. SELECT BORROW INCL. HAUL, COMPACTED DEPTH VARIES
8. NATIVE FILL, COMPACTED DEPTH VARIES
9. TOPSOIL TYPE C, COMPACTED DEPTH VARIES



JACKSON HIGHWAY SOUTH TYPICAL SECTION (C) LEFT SHOULDER DETAIL

SOUTH JACKSON HWY STATION 2+49.47 TO SOUTH JACKSON HWY STATION 2+60.00
NOT TO SCALE

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JACKSON HIGHWAY SOUTH
CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

JACKSON HIGHWAY SOUTH TYPICAL SECTION (C)
JACKSON HIGHWAY SOUTH TYPICAL SECTION (C) LEFT SHOULDER DETAIL

SHEET 15 OF 22

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Senior Engineer/Design
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DONALD J CARNEY
STATE OF WASHINGTON
42763
REGISTERED PROFESSIONAL ENGINEER
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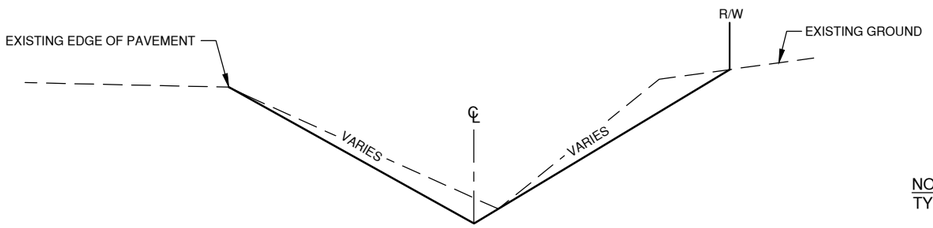
3/3/2020 3:11 PM

S:\Engineer\Design\JACKSON HWY S CULVERT 2167C\JACKSON S 2167C NEW DESIGN 2-14-2019 (MOVE PIPE 5 FT & END SECTIONS).dwg

3/3/2020 3:12 PM

S:\Engineer\Design\JACKSON HWY S CULVERT 2167C\JACKSON S 2167C NEW DESIGN 2-14-2019 (MOVE PIPE 5 FT & END SECTIONS).dwg

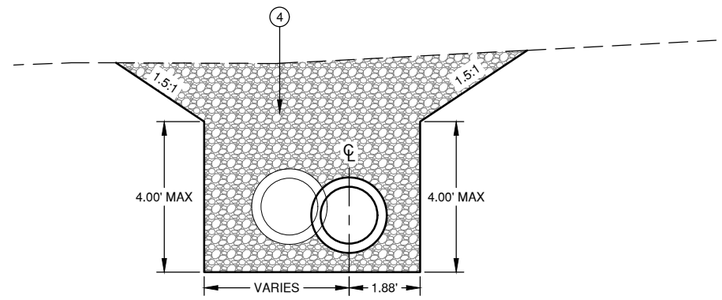
NOTE
DITCH STATION 0+20.00 IS EQUAL TO JACKSON HIGHWAY SOUTH STATION 3+76.80 LEFT



V DITCH TYPICAL SECTION

DITCH STATION 0+20.00 TO DITCH STATION 0+88.92
NOT TO SCALE

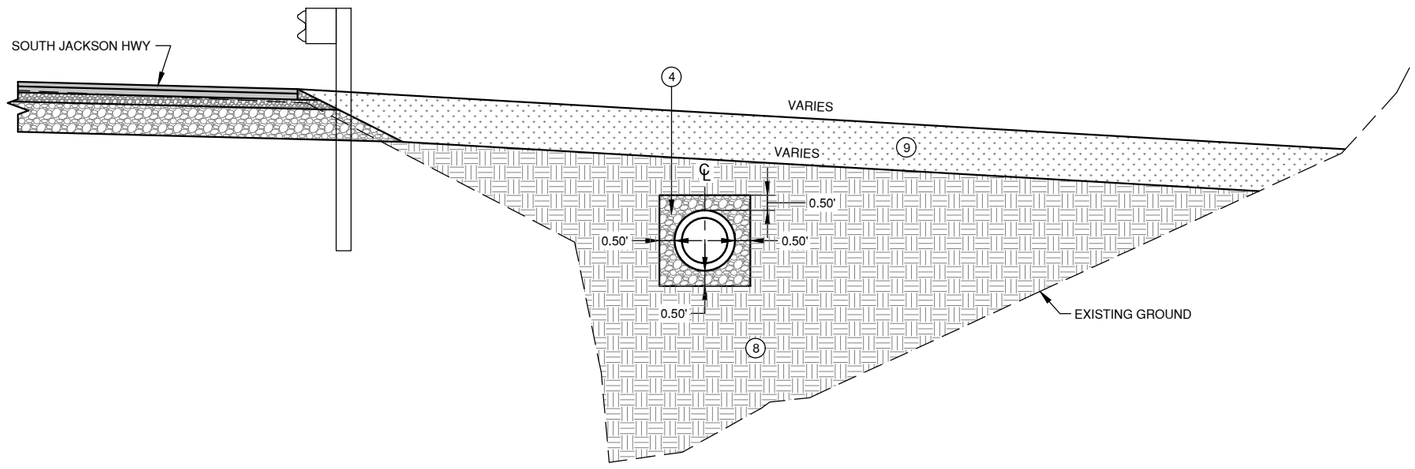
NOTE
TYPICAL SECTIONS ON THIS SHEET ARE FOR EAST DITCH ONLY



CULVERT EXCAVATION TYPICAL SECTION

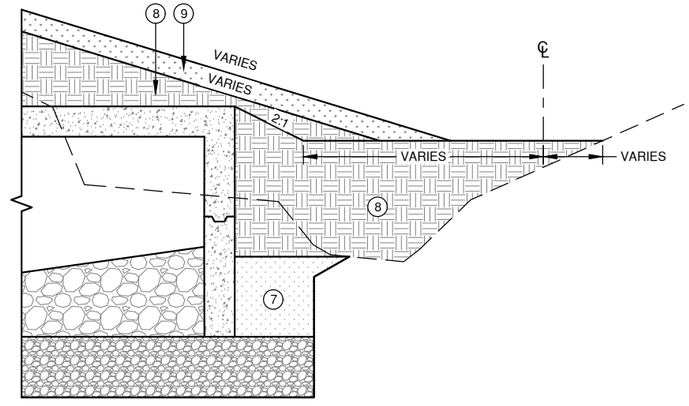
DITCH STATION 0+88.92 TO DITCH STATION 1+64.91
NOT TO SCALE

(1) HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED WEARING COURSE, 0.15' COMPACTED DEPTH
(2) HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED LEVELING COURSE, 0.20' COMPACTED DEPTH
(3) PLANING BITUMINOUS PAVEMENT, DEPTH 0.35' OR DIRECTED BY THE ENGINEER
(4) CRUSHED SURFACING BASE COURSE COMPACTED DEPTH VARIES
(5) CRUSHED SURFACING TOP COURSE, 0.30' COMPACTED DEPTH
(6) CRUSHED SURFACING BASE COURSE, 1.00' COMPACTED DEPTH
(7) SELECT BORROW INCL. HAUL, COMPACTED DEPTH VARIES
(8) NATIVE FILL, COMPACTED DEPTH VARIES
(9) TOPSOIL TYPE C, COMPACTED DEPTH VARIES



DITCH TYPICAL SECTION (A)

DITCH STATION 1+64.91 TO DITCH STATION 2+29.00
NOT TO SCALE



DITCH TYPICAL SECTION (B)

DITCH STATION 2+29.00 TO DITCH STATION 2+44.72
NOT TO SCALE

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

V DITCH TYPICAL SECTION
CULVERT EXCAVATION TYPICAL SECTION
DITCH TYPICAL SECTION (A)
DITCH TYPICAL SECTION (B)

SHEET 16 OF 22

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Senior Engineer/Design
Date: 3-4-2020

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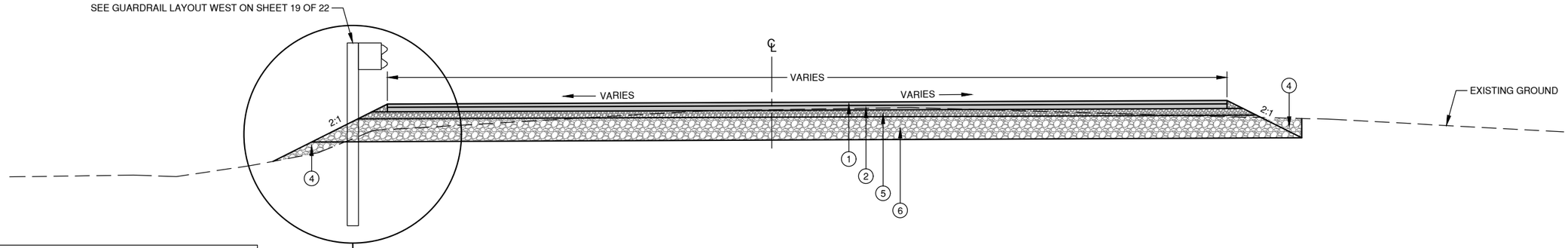
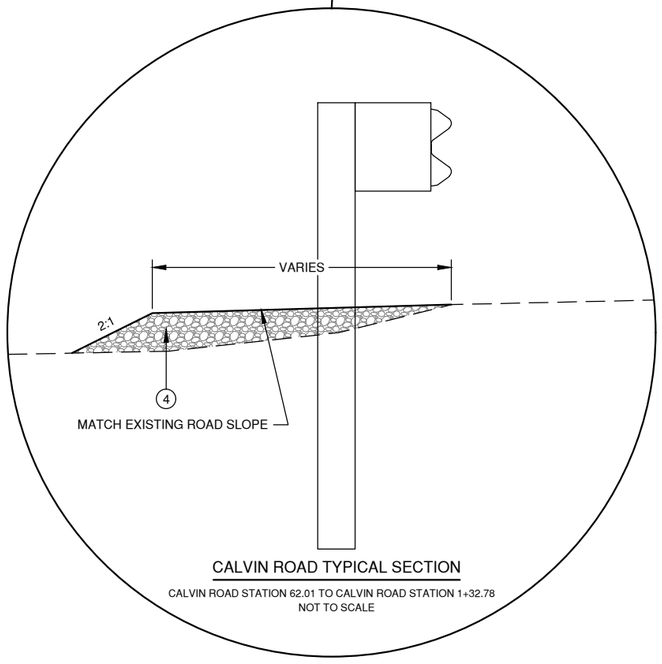
STATE OF WASHINGTON
#42763
REGISTERED PROFESSIONAL ENGINEER
5-23-21



CALVIN ROAD GUARDRAIL STAKING TABLE		
CALVIN ROAD CENTERLINE STATION	OFFSET TO FINISHED TOP	GUARDRAIL DESCRIPTION
0+29.34	23.76' LT	START OF SHOULDER
0+43.89	16.62' LT	MID CURVE
0+59.77	13.43' LT	PT CURVE
0+92.80	12.77' LT	LANDING
1+02.80	12.77' LT	LANDING
1+32.78	8.70' LT	END OF TAPER

CALVIN ROAD TYPICAL SECTION

CALVIN ROAD STATION 0+17.00 TO CALVIN ROAD STATION 0+62.01
NOT TO SCALE



CALVIN ROAD TYPICAL SECTION

CALVIN ROAD STATION 62.01 TO CALVIN ROAD STATION 1+32.78
NOT TO SCALE

1. HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED WEARING COURSE, 0.15' COMPACTED DEPTH
2. HMA CLASS 3/8 IN. PG 58H-22 FIBER REINFORCED LEVELING COURSE, 0.20' COMPACTED DEPTH
3. PLANING BITUMINOUS PAVEMENT, DEPTH 0.35' OR DIRECTED BY THE ENGINEER
4. CRUSHED SURFACING BASE COURSE COMPACTED DEPTH VARIES
5. CRUSHED SURFACING TOP COURSE, 0.30' COMPACTED DEPTH
6. CRUSHED SURFACING BASE COURSE, 1.00' COMPACTED DEPTH
7. SELECT BORROW INCL. HAUL, COMPACTED DEPTH VARIES
8. NATIVE FILL, COMPACTED DEPTH VARIES
9. TOPSOIL TYPE C, COMPACTED DEPTH VARIES

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RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

CALVIN ROAD TYPICAL SECTION

SHEET 17 OF 22

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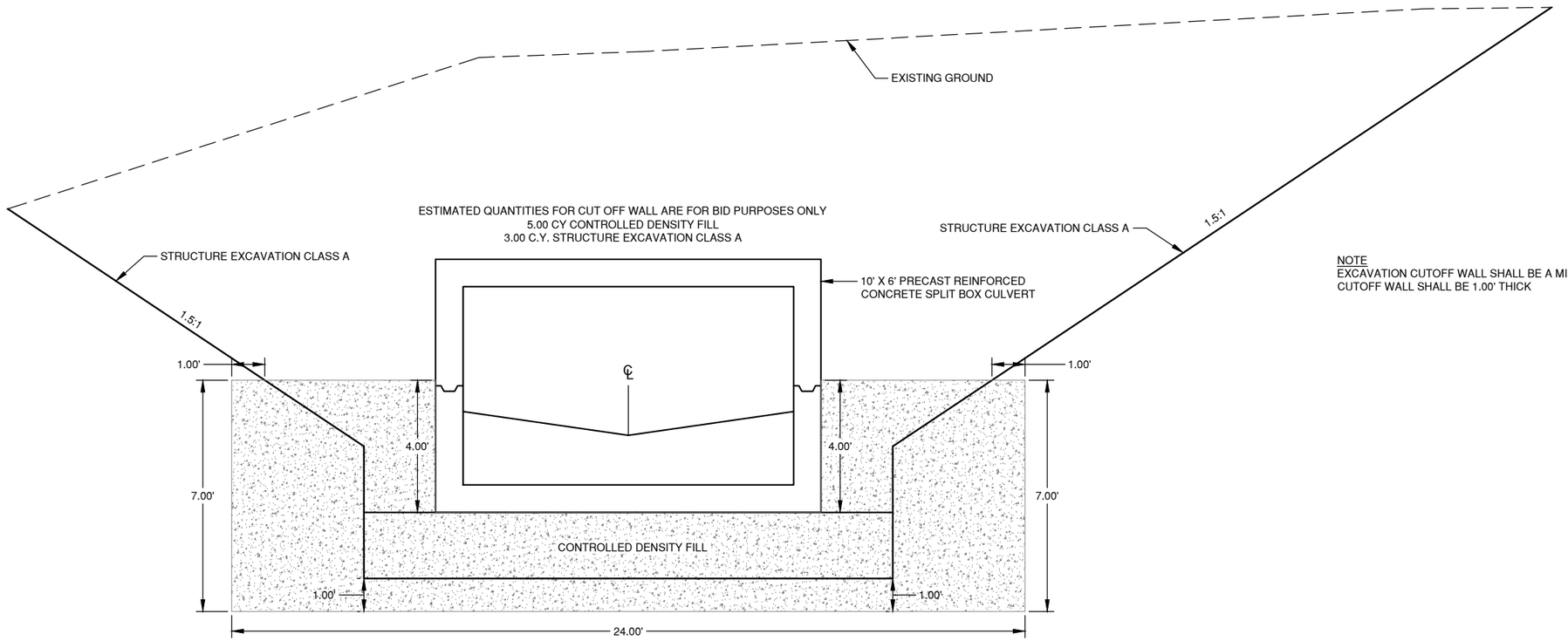
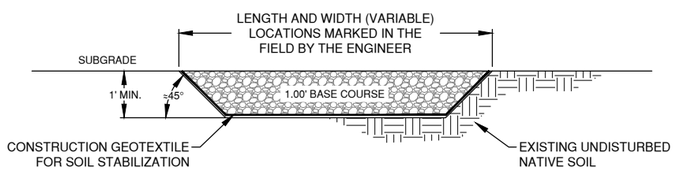


NOTE
EXCAVATION CUTOFF WALL SHALL BE A MININUM OF 1.00' INTO NATIVE GROUND
CUTOFF WALL SHALL BE 1.00' THICK

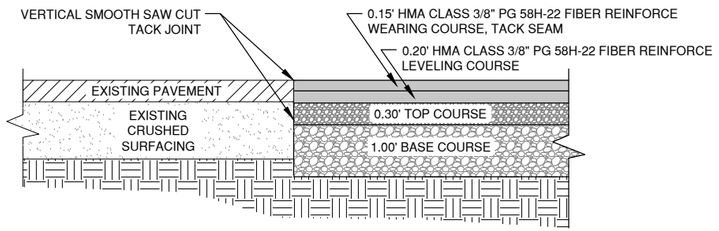
CUT OFF WALL DETAIL

STREAMBED STATION 1+20.00 TO STREAMBED STATION 1+21.00
NOT TO SCALE



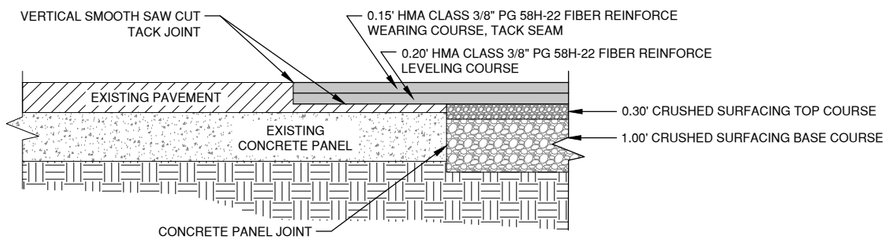
DIGOUT DETAIL

NOT TO SCALE



BUTT JOINT DETAIL

NOT TO SCALE



PLANING BITUMINOUS BUTT JOINT DETAIL

NOT TO SCALE

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JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

CUT OFF WALL DETAIL
TYPICAL DIGOUT DETAIL, BUTT JOINT DETAIL
PLANING BITUMINOUS BUTT JOINT DETAIL

SHEET 18 OF 22

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Senior Engineer/Design
Date: 3-4-2020

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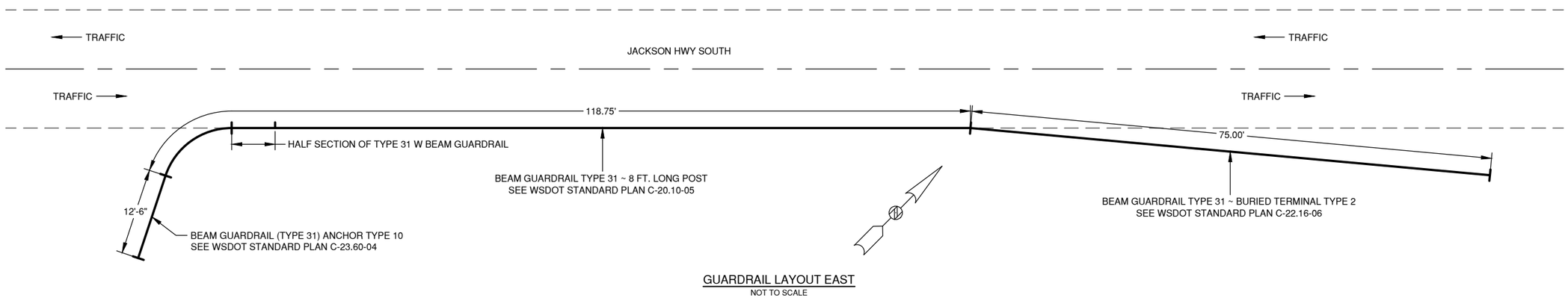
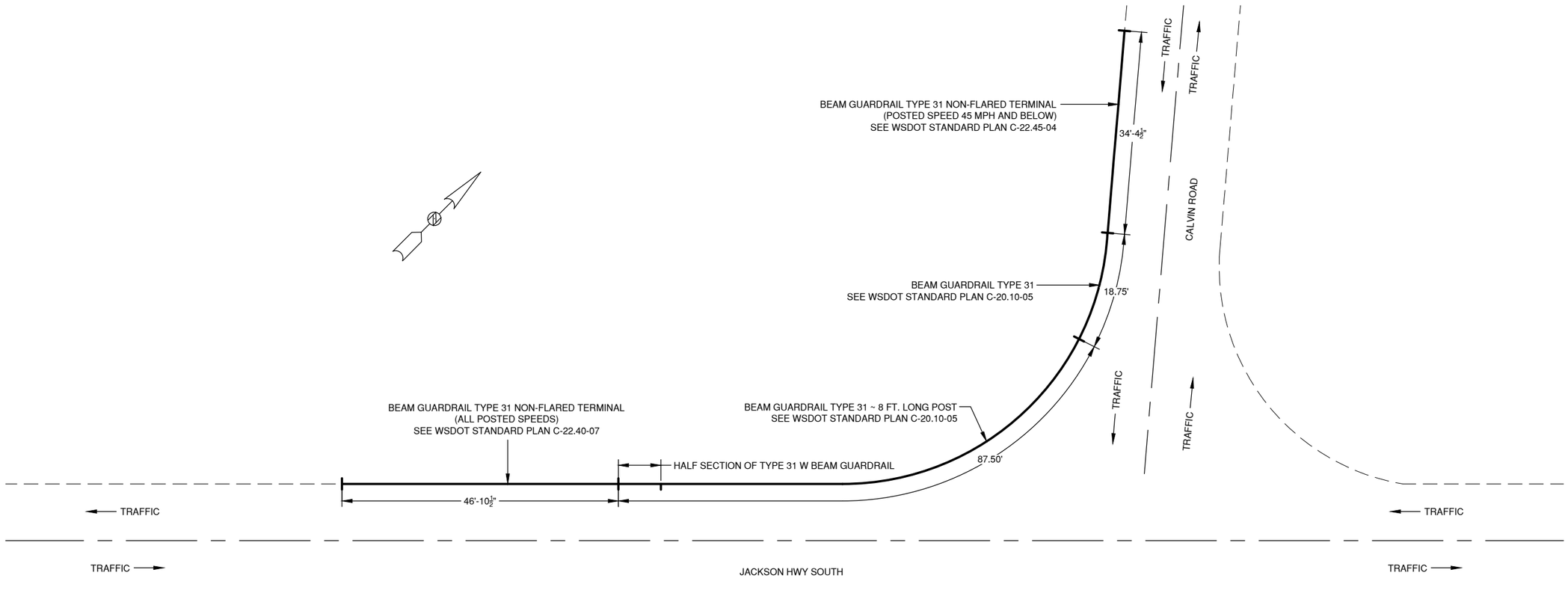
5/23/21



GUARDRAIL LAYOUT EAST
NOT TO SCALE



GUARDRAIL LAYOUT WEST
NOT TO SCALE

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GUARDRAIL LAYOUT EAST
GUARDRAIL LAYOUT WEST

SHEET 19 OF 22

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STATE OF WASHINGTON
42763
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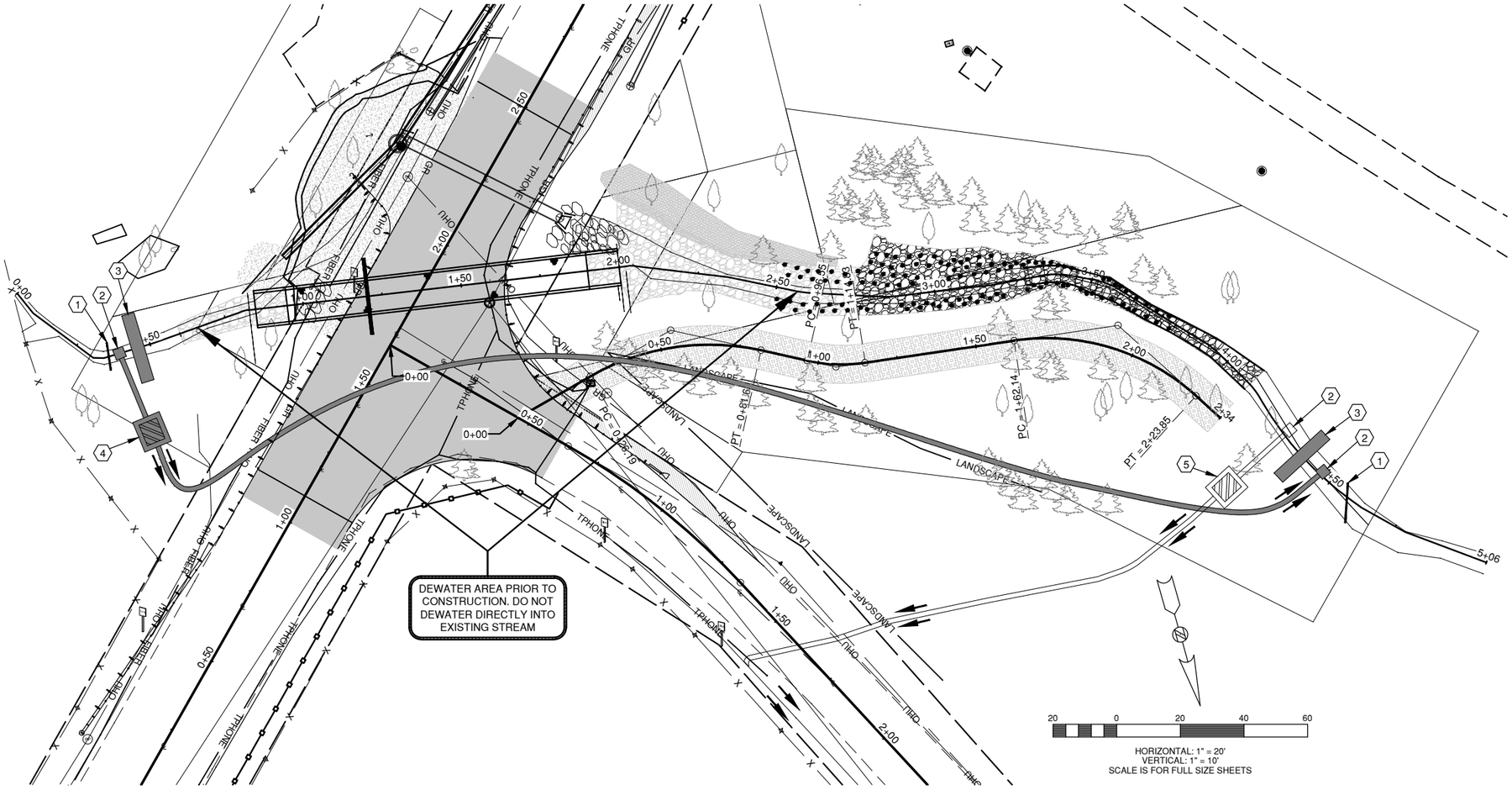
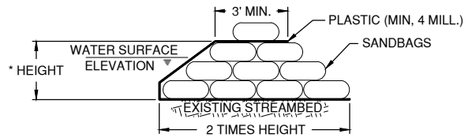
5-23-21

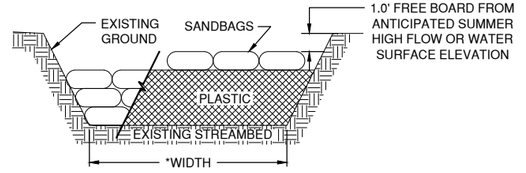




* HEIGHT OF COFFER DAM SHALL BE DETERMINED BY THE WATER SURFACE ELEVATION AT THE TIME OF CONSTRUCTION.

NOTES:
1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
3. PROVIDE 1.0' FREEBOARD.

SIDE VIEW



* WIDTH OF COFFER DAM SHALL BE DETERMINED BY THE EXISTING BANK OF THE STREAM AT THE TIME OF CONSTRUCTION.

NOTES:
1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
3. PROVIDE 1.0' FREEBOARD.

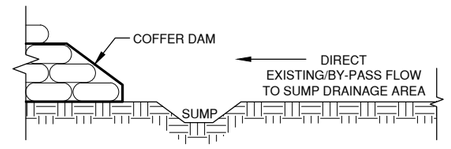
FRONT VIEW

COFFER DAM TYPICAL DETAIL

NOT TO SCALE

DEWATERING AREA SUMP DETAIL

NOT TO SCALE



DEWATERING BY-PASS SUMP DETAIL

NOT TO SCALE

CONSTRUCTION NOTES

1. FISH DIVERSION SCREEN UPSTREAM OF BYPASS INTAKE AND DOWNSTREAM OF BYPASS OUTLET PER HPA PROVISIONS, INSTALL AT 45° TO WATERLINE OF STREAM
2. PUMP INTAKE SCREEN OVER ALL INTAKE AND OUTLET HOSES PER WDFW REQUIREMENTS
3. INSTALL COFFER DAM PER DETAILS ON THIS SHEET
   TO BE STAKED IN THE FIELD BY THE ENGINEER
4. INSTALL SPILL CONTAINED PUMP SYSTEM FOR STREAM BYPASS
5. INSTALL SPILL CONTAINED PUMP SYSTEM FOR DEWATERING
   PUMP WORK WATER ALONG CALVIN ROAD NORTH DITCH APPROXIMATELY 200' IN GRASS LINED DITCH, WITH STRAW WATTLES EVERY 25'

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

DEWATERING PLAN

SHEET 20 OF 22

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Law"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020

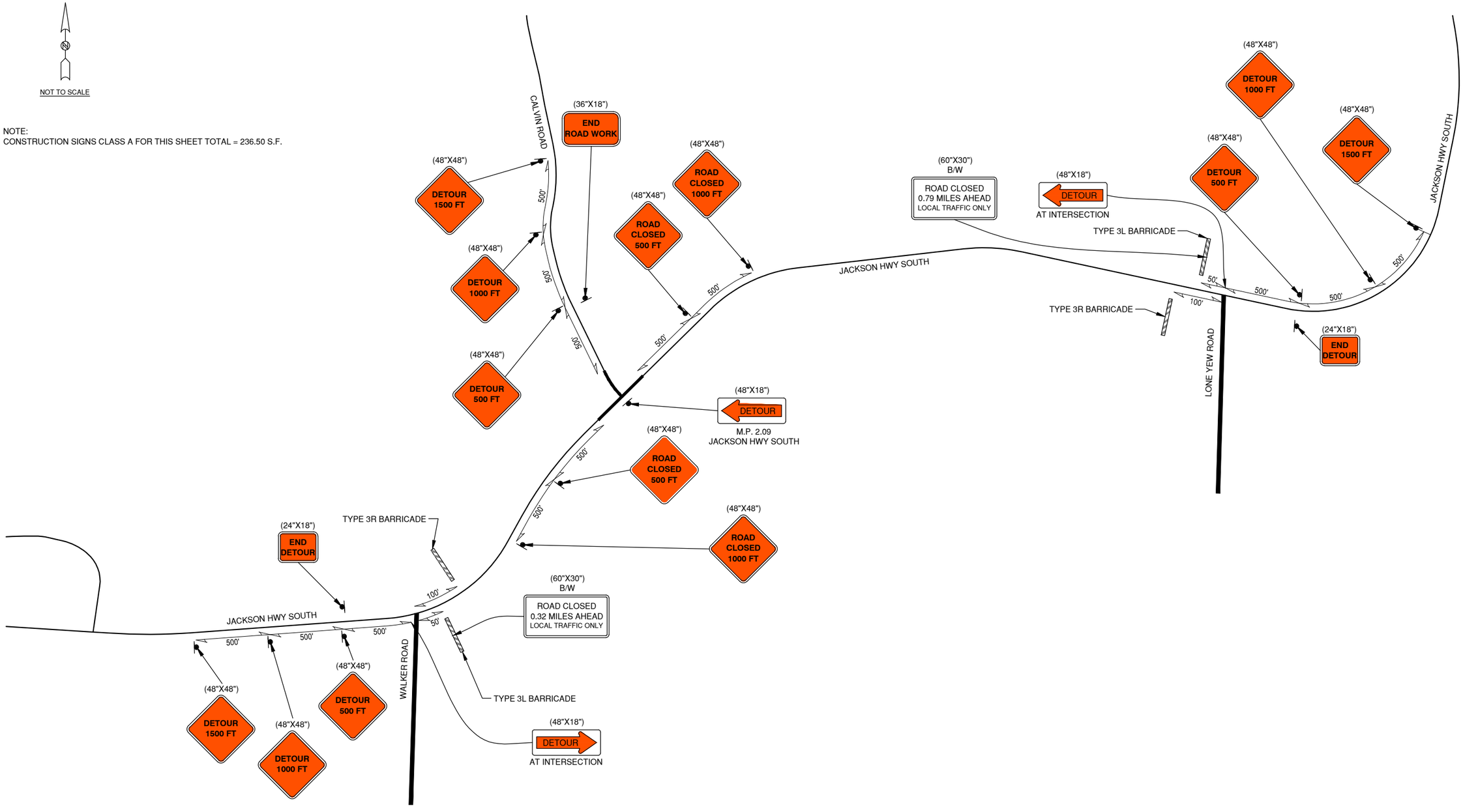
DONALD J CARNEY
STATE OF WASHINGTON
#42763
REGISTERED PROFESSIONAL ENGINEER
5/31/21

3/3/2020 3:18 PM

S:\Engineer\Design\JACKSON HWY S CULVERT 2167C\JACKSON S 2167C NEW DESIGN 2-14-2019 (MOVE PIPE 5 FT & END SECTIONS).dwg

NOT TO SCALE

NOTE:
CONSTRUCTION SIGNS CLASS A FOR THIS SHEET TOTAL = 236.50 S.F.



Lewis County Department of Public Works	2025 N. E. KRESKY AVE. CHEHALIS WA 98532 PHONE # (360) 740-1123 FAX # (360) 740-2719	DESIGNED BY : DJC DRAWN BY : CGA CHECKED BY : DATE :	NO.	DATE	REVISION	BY	APP.

JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

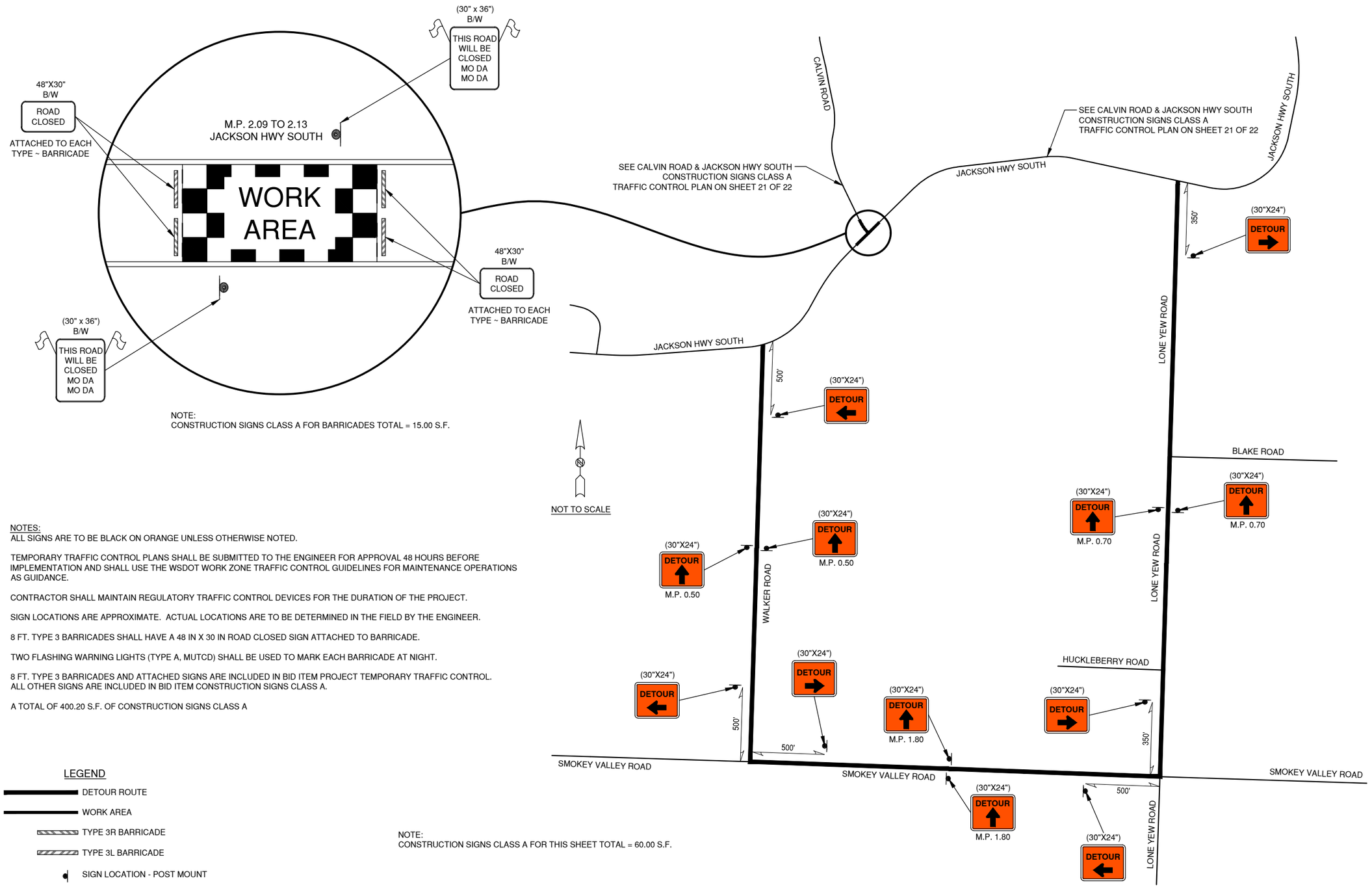
CALVIN ROAD & JACKSON HIGHWAY SOUTH TRAFFIC CONTROL PLAN

SHEET 21 OF 22

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 "It's the Law" Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020

DONALD J CARNEY STATE OF WASHINGTON 42753 REGISTERED PROFESSIONAL ENGINEER
5-23-21



NOTE:
CONSTRUCTION SIGNS CLASS A FOR BARRICADES TOTAL = 15.00 S.F.

NOTES:
ALL SIGNS ARE TO BE BLACK ON ORANGE UNLESS OTHERWISE NOTED.

TEMPORARY TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 48 HOURS BEFORE IMPLEMENTATION AND SHALL USE THE WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES FOR MAINTENANCE OPERATIONS AS GUIDANCE.

CONTRACTOR SHALL MAINTAIN REGULATORY TRAFFIC CONTROL DEVICES FOR THE DURATION OF THE PROJECT.

SIGN LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

8 FT. TYPE 3 BARRICADES SHALL HAVE A 48 IN X 30 IN ROAD CLOSED SIGN ATTACHED TO BARRICADE.

TWO FLASHING WARNING LIGHTS (TYPE A, MUTCD) SHALL BE USED TO MARK EACH BARRICADE AT NIGHT.

8 FT. TYPE 3 BARRICADES AND ATTACHED SIGNS ARE INCLUDED IN BID ITEM PROJECT TEMPORARY TRAFFIC CONTROL. ALL OTHER SIGNS ARE INCLUDED IN BID ITEM CONSTRUCTION SIGNS CLASS A.

A TOTAL OF 400.20 S.F. OF CONSTRUCTION SIGNS CLASS A

LEGEND

- DETOUR ROUTE
- WORK AREA
- TYPE 3R BARRICADE
- TYPE 3L BARRICADE
- SIGN LOCATION - POST MOUNT

NOTE:
CONSTRUCTION SIGNS CLASS A FOR THIS SHEET TOTAL = 60.00 S.F.

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : J. PIPER
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

JACKSON HIGHWAY SOUTH CULVERT REPLACEMENT PROJECT

RAP PROJECT NO: 2117-01
COUNTY ROAD PROJECT NO: 2167C

DETOUR ROUTE TRAFFIC CONTROL PLAN

SHEET 22 OF 22

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Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-4-2020

STATE OF WASHINGTON
DONALD J CARNEY
24276
REGISTERED PROFESSIONAL ENGINEER
5/23/21