CONTRACT DOCUMENTS
FOR

CITY OF FERNDALE, WASHINGTON
Thornton To Newkirk Watermain Improvements Project
City Project Number WA2010-01

Consisting of:

Bid Documents
Contract Forms
Specifications & Conditions
Drawings

Approved By:

City of Ferndale
Kevin Renz, Public Works Director
2095 Main Street
Ferndale, WA 98248
Phone: (360) 384-4006

Engineer:

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
5/12/2025

Reichhardt & Ebe Engineering, Inc.
423 Front Street
Lynden, WA 98264
Phone: (360) 354-3687

THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PROJECT
City Project Number WA2010-01
FERNDALE, WASHINGTON

TABLE OF CONTENTS

BID PROCEDURES AND CONDITIONS
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INVITATION TO BID
FOR
THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PROJECT
CITY PROJECT WA2010-01

NOTICE IS HEREBY GIVEN by CITY OF FERNDALE that sealed bid proposals will be received by the City of Ferndale at Ferndale City Hall, 2095 Main Street, Ferndale, Washington, 98248, (360) 384-4006, until **June 5, 2025, at 12:00 PM**, and will then and there be opened and publicly read for the **Thornton To Newkirk Watermain Improvements Project.**

PROJECT DESCRIPTION: This contract provides for the installation of approximately 500 linear feet of water main beginning at Thornton Street, then easterly to Newkirk Road (Base Bid). Base Bid work will include clearing and grubbing; removal of existing pavement; grading; installation of approximately 260 feet of 20" HDPE watermain casing using directional drilling (under I-5); installation of approximately 260 feet of 14" HDPE watermain carrier pipe inside the 20" HDPE casing; installation of approximately 180 feet of 12" ductile iron watermain. Work may also include the installation of approximately 630 linear feet of 12" ductile iron watermain from the west terminus of Newkirk Road, then easterly to Portal Way (Alternate A1). Alternate A1 work will include clearing and grubbing; pulverizing of existing pavement; grading. Other work will include placing of gravel base; hot mix asphalt; and other work, all in accordance with the Contract Plans, Special Provisions, the Standard Specifications, and Standard Plans.

Bid Guaranty
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 performance bond and payment bond both in an amount of 100 percent (100%) of the contract price within the time stated in the specifications, the bid proposal deposit shall be forfeited to the City of Ferndale. All bidders and subcontractors shall have a contractor's license to work in the State of Washington and a City of Ferndale Business License before starting work. All work performed on this project will be subject to prevailing state wage rates.

Project Documents: Electronic versions of the project plans and specifications are available for view and download on the City of Ferndale website at www.cityofferndale.org/thorntontonewkirk/.Bidders must request to be added to the planholders list. Please email the City of Ferndale at public-works@cityofferndale.org to be included. Only those on the planholders list will be notified when bid-related information, such as addenda, etc., is issued. Informational copies of maps, plans and specifications are on file for inspection in the Public Works Department at Ferndale City Hall, 2095 Main Street, Ferndale, Washington 98248.

Pre-Bid Conference: Bidders, prior to submitting a bid, may attend a non-mandatory pre-bid conference with the Project Engineer. The meeting will start on **May 28, 2025, at 3:00 PM** in the main conference room at the Ferndale City Hall, located at 2095 Main Street, Ferndale, Washington 98248. For those who are not available to attend in person, the pre-bid conference will also be broadcast using Microsoft Teams. Please see our project page for information to join the online meeting. A jobsite visit may follow upon request.

The City of Ferndale, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 US.C.§§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The City of Ferndale is an Equal Opportunity and Affirmative Action Employer. Minority and Women-Owned firms are encouraged to submit bids.

The CALL FOR BIDS for this project was advertised in the Ferndale Record Journal on May 14 and May 21, 2025.

BID PROPOSAL FORMS

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BID PROPOSAL
FOR

THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PROJECT
FERNDALE, WASHINGTON

Date: _____

TO: City of Ferndale

Gentlepersons:

This certifies that the Undersigned: has examined the location of the project site and the conditions of work; and has carefully read and thoroughly understands the contract documents entitled: "**THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PROJECT, WA2010-01**", in Ferndale, including the "Bid Procedures and Conditions", "Specifications and Conditions", "Contract Forms", and "Plans" governing the work embraced in this project and the method by which payment will be made for said work. The Undersigned hereby proposes to undertake and complete the work embraced in this project in accordance with said contract documents, and agrees to accept as payment for said work, the schedule of lump sum and unit prices as set forth in the "Bid" below.

The Undersigned acknowledges that payment will be based on the actual work performed and material used as measured or provided for in accordance with the said contract documents, and that no additional compensation will be allowed for any taxes not included in each lump sum or unit price, and that the basis for payment will be the actual work performed and measured or provided for in accordance with the said contract documents.

City of Ferndale
Thornton To Newkirk Watermain Improvements Project

( ) SECTION REFERENCE May 9, 2025

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
		Base Bid		
1	1 LUMP SUM	MOBILIZATION (1-09.7)	$ per LS	$
2	1 LUMP SUM	ROADWAY SURVEYING (1-05)	$ per LS	$
3	1 LUMP SUM	SPCC PLAN (1-07)	$ per LS	$
4	1 LUMP SUM	PROJECT TEMPORARY TRAFFIC CONTROL (1-10)	$ per LS	$
5	1 LUMP SUM	CLEARING AND GRUBBING (2-01)	$ per LS	$
6	1 LUMP SUM	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (2-02)	$ per LS	$
7	1 EACH	REMOVING MANHOLE (2-02)	$ per EA	$
8	20 LINEAR FOOT-INCH	SAWCUT ACP (2-02)	$ per LF-IN	$
9	30 CUBIC YARD	ROADWAY EXCAVATION INCL. HAUL (2-03)	$ per CY	$
10	10 CUBIC YARD	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL (2-03)	$ per CY	$

City of Ferndale
Thornton To Newkirk Watermain Improvements Project

( ) SECTION REFERENCE May 9, 2025

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
11	10 CUBIC YARD	EMBANKMENT COMPACTION (2-03)	$ per CY	$
12	10 M GAL.	WATER (2-07)	$ per M GAL.	$
13	1 LUMP SUM	DEWATERING (2-09)	$ per LS	$
14	775 SQUARE FOOT	SHORING OR EXTRA EXCAVATION CLASS B (2-09)	$ per SF	$
15	580 TON	GRAVEL BASE (4-02)	$ per TON	$
16	40 TON	CRUSHED SURFACING TOP COURSE (4-04)	$ per TON	$
17	40 TON	COMMERCIAL HMA (5-04)	$ per TON	$
18	1 LUMP SUM	ADJUSTMENTS TO FINISHED GRADE (7-05)	$ per LS	$
19	180 LINEAR FOOT	DUCTILE IRON PIPE FOR WATER MAIN 12 IN. DIAM. (7-09)	$ per LF	$
20	1 EACH	CONNECT TO EXISTING WATER MAIN 10 IN. DIAM. (7-09)	$ per EA	$

( ) SECTION REFERENCE May 9, 2025

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
21	1 EACH	CONNECT TO EXISTING WATER MAIN 12 IN. DIAM. (7-09)	$ per EA	$
22	260 LINEAR FOOT	HDPE PIPE FOR WATERMAIN 14 IN. DIAM. (7-09)	$ per LF	$
23	2 EACH	HIGH DENSITY POLYETHYLENE PIPE (HDPE) CONNECTION TO MAIN 14 IN. DIAM. (7-09)	$ per EA	$
24	260 LINEAR FOOT	HDPE PIPE FOR CASING 20 IN. DIAM. (7-10)	$ per LF	$
25	1 EST	FORCE ACCOUNT UNEXPECTED OBJECT REMOVAL (7-10)	$ 20,000.00 EST	$ 20,000.00
26	1 EACH	COMB. AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. (7-12)	$ per EA	$
27	2 EACH	GATE VALVE 12 IN. (7-12)	$ per EA	$
28	1 LUMP SUM	ESC LEAD (8-01)	$ per LS	$
29	515 LINEAR FOOT	SILT FENCE (8-01)	$ per LF	$
30	1 LUMP SUM	SWPP PLAN PREPARATION (8-01)	$ per LS	$

City of Ferndale
Thornton To Newkirk Watermain Improvements Project

( ) SECTION REFERENCE May 9, 2025

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
31	25 SQUARE YARD	SEEDED LAWN INSTALLATION (8-02)	$ per SY	$
32	1 EST	LANDSCAPE RESTORATION (8-02)	$ 5,000.00 EST	$ 5,000.00
33	3 EACH	POTHOLE EXISTING UNDERGROUND UTILITY (8-32)	$ per EA	$
34	1 EST	REPAIR EXISTING PUBLIC AND PRIVATE FACILITIES (8-33)	$ 3,000.00 EST	$ 3,000.00

Base Bid Subtotal $

Base Bid Sales Tax @ 9% $

Total Base Bid $

City of Ferndale
Thornton To Newkirk Watermain Improvements Project

( ) SECTION REFERENCE May 9, 2025

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
Alternate A1 12" Water Main From STA 5+94 to STA 12+24				
35	1 LUMP SUM	MOBILIZATION (1-09.7)	$ per LS	$
36	1 LUMP SUM	ROADWAY SURVEYING (1-05)	$ per LS	$
37	1 LUMP SUM	PROJECT TEMPORARY TRAFFIC CONTROL (1-10)	$ per LS	$
38	1 LUMP SUM	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (2-02)	$ per LS	$
39	100 LINEAR FOOT-INCH	SAWCUT ACP (2-02)	$ per LF-IN	$
40	10 CUBIC YARD	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL (2-03)	$ per CY	$
41	1,400 SQUARE YARD	PAVEMENT PULVERIZING (2-05)	$ per SY	$
42	20 M GAL.	WATER (2-07)	$ per M GAL.	$
43	4,000 SQUARE FOOT	SHORING OR EXTRA EXCAVATION CLASS B (2-09)	$ per SF	$

( ) SECTION REFERENCE May 9, 2025

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
44	400 TON	GRAVEL BASE (4-02)	$ per TON	$
45	10 TON	CRUSHED SURFACING TOP COURSE (4-04)	$ per TON	$
46	6 TON	COMMERCIAL HMA (5-04)	$ per TON	$
47	250 TON	HMA CL. 1/2 IN. PG 58H-22 (5-04)	$ per TON	$
48	0 CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT (5-04)	$ 0 CALC	$ 0
49	0 CALC	COMPACTION PRICE ADJUSTMENT (5-04)	$ 0 CALC	$ 0
50	1 LUMP SUM	ADJUSTMENTS TO FINISHED GRADE (7-05)	$ per LS	$
51	630 LINEAR FOOT	DUCTILE IRON PIPE FOR WATER MAIN 12 IN. DIAM. (7-09)	$ per LF	$
52	1 EACH	CONNECT TO EXISTING WATER MAIN 10 IN. DIAM. (7-09)	$ per EA	$
53	2 EACH	GATE VALVE 12 IN. (7-12)	$ per EA	$

City of Ferndale
Thornton To Newkirk Watermain Improvements Project

( ) SECTION REFERENCE May 9, 2025

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
54	2 EACH	HYDRANT ASSEMBLY (7-14)	$ per EA	$
55	6 EACH	SERVICE CONNECTION 3/4 IN. DIAM. (7-15)	$ per EA	$
56	1 LUMP SUM	SWPP PLAN PREPARATION (8-01)	$ per LS	$
57	270 SQUARE YARD	SEEDED LAWN INSTALLATION (8-02)	$ per SY	$
58	1 EST	LANDSCAPE RESTORATION (8-02)	$ 5,000.00 EST	$ 5,000.00
59	5 EACH	POTHOLE EXISTING UNDERGROUND UTILITY (8-32)	$ per EA	$
60	1 EST	REPAIR EXISTING PUBLIC AND PRIVATE FACILITIES (8-33)	$ 3,000.00 EST	$ 3,000.00

Alternate A1 Subtotal $

Alternate A1 Sales Tax (Items 35-38, 40, 42-44, 51-60) @ 9% $

Total Alternate A1 (Including Sales Tax) $

Total Base Bid (Including Sales Tax) $

Total Alternate A1 (Including Sales Tax) $

Total Base Bid Plus Alternate A1 $

BIDDER IDENTIFICATION

The name of the Bidder submitting this proposal, the address and phone number to which all communications concerned with this proposal shall be made and the number which has been assigned indicating the Bidder is licensed to do business in the State of Washington are as follows:

Firm Name: ___________________________________

Address: ___________________________________
____

Telephone: ___________________________ Fax: ___________________________

Contractor's Number: ____________________

The Firm submitting this proposal is a _____Sole Proprietorship
_____Partnership
_____Corporation

The names and titles of the principal officers of the corporation submitting this proposal, or of the partnership, or of all persons interested in this proposal as principals are as follows:

___________________________________ ___________________________________
___________________________________ ___________________________________
___________________________________ ___________________________________
___________________________________ ___________________________________

- -

NOTE: Signatures of this proposal must be identified above. Failure to identify the Signatories will be cause for considering the proposal irregular and for subsequent rejection of the bid.

BID PROPOSAL SIGNATURE AND ADDENDUM ACKNOWLEDGMENT

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 approximation 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 CITY OF FERNDALE
☐	PROPOSAL BOND	IN THE AMOUNT OF 5% OF THE BID.

Receipt is hereby acknowledged by addendum(s) No.(s) _____, _____, & _____

SIGNATURE OF AUTHORIZED OFFICIAL(S)

(PROPOSAL MUST BE SIGNED) _____

_____
SIGNATURE

_____
FIRM NAME

STATE OF WASHINGTON)
) ss.
COUNTY OF WHATCOM)

On this _____ day of _____, 20___, before me personally appeared _____ to me personally known to be the person described in and who executed the above instrument and who acknowledged to me the act of signing thereof.

NOTARY PUBLIC, in and for the
State of Washington, residing at:
_____
My Commission Expires: _____

This proposal form is not transferable, and any alteration of the firm's name entered hereon without prior permission from the City of Ferndale will be cause for considering the proposal irregular and for subsequent rejection of the bid.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we of _____, as principal, and the _____a corporation duly organized under the laws of the State of _____and having its principal place of business at _____, in the State of Washington, as Surety, are held and firmly bound unto the City of Ferndale, a Municipal Corporation in the State of Washington, in the full and penal sum of five percent (5%) of the total bid amount appearing on the bid proposal of said principal for the work hereinafter described, for the payment of which, well and truly to be made, we bind our heirs, executors, administrators and assigns, and successors and assigns, jointly and severally, firmly by these presents.

The condition of this bond is such that, whereas, the principal herein is herewith submitting his or its bid proposal for, **Thornton to Newkirk Watermain Improvements Project, WA2010-01,** said bid proposal, by reference thereto, being hereby made a part hereof.

NOW, THEREFORE, if the said bid proposal submitted by the said PRINCIPAL be accepted, and the contract be awarded to said PRINCIPAL, and if said PRINCIPAL shall duly make and enter into and execute said contract and shall furnish the performance bond as required by the bidding and contract documents within a period of twenty (20) days from and after said award, exclusive of the day of such award, then its obligation to pay the above-mentioned penal sum as liquidated damages shall be null and void, otherwise it shall remain and be in full force and effect.

SIGNED AND SEALED this _____ day of _____, 20___.

Principal

By _____ (Seal)

Surety

By _____
Attorney-In-Fact

The Attorney-in-fact who executes this bond on behalf of the surety company, must attach a copy of his power-of-attorney as evidence of his authority.

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, participated 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 call:

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, bidder 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.

CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (May 14, 2025), 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.*

SPECIFICATIONS AND CONDITIONS

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SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS

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INTRODUCTION TO THE SPECIAL PROVISIONS

(July 8, 2024 APWA GSP, Option B)

The work on this project shall be accomplished in accordance with the *Standard Specifications for Road, Bridge and Municipal Construction*, 2024 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision either supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.

The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:

(March 8, 2013 APWA GSP)
(April 1, 2013 WSDOT GSP)
(May 1, 2013 R&E GSP)
(NWR February 5, 2013)

Project specific special provisions are labeled without a date as such:
(*****)

Also incorporated into the Contract Documents by reference are:

- *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted edition, with Washington State modifications, if any
- *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT Manual M21-01, current edition
- *City of Ferndale Standard Plans*

Contractor shall obtain copies of these publications, at Contractor's own expense.

DIVISION 1:
GENERAL REQUIREMENTS

DESCRIPTION OF WORK

(March 13, 1995 WSDOT GSP)

This contract provides for the installation of approximately 500 linear feet of water main beginning at Thornton Street, then easterly to Newkirk Road (Base Bid). Base Bid work will include clearing and grubbing; removal of existing pavement; grading; installation of approximately 260 feet of 20" HDPE watermain casing using directional drilling (under I-5); installation of approximately 260 feet of 14" HDPE watermain carrier pipe inside the 20" HDPE casing; installation of approximately 180 feet of 12" ductile iron watermain. Work may also include the installation of approximately 630 linear feet of 12" ductile iron water
main from the west terminus of Newkirk Road, then easterly to Portal Way (Alternate A1). Alternate A1 work will include clearing and grubbing; pulverizing of existing pavement; grading. Other work will include placing of gravel base; hot mix asphalt; and other work, all in accordance with the Contract Plans, Special Provisions, the Standard Specifications, and Standard Plans.

1-01 DEFINITIONS AND TERMS

1-01.3 Definitions

(January 19, 2022 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 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

(June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

Information as to where Bid Documents can be obtained or reviewed can be found in the Call for Bids (Advertisement for Bids) for the work.

After award of the contract, plans and specifications will be issued to the Contractor at no cost as detailed below:

To Prime Contractor	No. of Sets	Basis of Distribution

Reduced plans (11" x 17")	4	Furnished automatically upon award.
Contract Provisions	4	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	2	Furnished only upon request.

Additional plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor's own expense.

1-02.4 EXAMINATION OF PLANS, SPECIFICATIONS AND SITE OF WORK

1-02.4(1) General

(December 30, 2022 APWA GSP Option B)

The first sentence of the ninth paragraph, beginning with "Prospective Bidder desiring…", is revised to read:

> Prospective Bidders desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing by close of business **5** business days preceding the bid opening to allow a written reply to reach all prospective Bidders before the submission of their Bids.

1-02.5 Proposal Forms

(November 25, 2024 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's DBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be in legible figures (not words) written in ink or typed and expressed in U.S. dollars. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

1-02.6 Preparation of Proposal

(April 22, 2025 APWA GSP, Option B)

The first sentence of the second paragraph is revised to read as follows:

All prices shall be in legible figures (not words) written in ink or typed, and expressed in U.S. dollars.

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.

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

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 bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture.

Section 1-02.6 is supplemented with the following:

(August 3, 2015)

Cumulative Alternates Bidding

The Bid Proposal for this Contract requires the Bidder to bid cumulative Alternates as part of the bid. As such the Bidder is required to submit a Base Bid and a bid for each of the Alternate(s).

Bid Proposal

The Bid Proposal includes the following:

1. Base Bid
   The Base Bid shall include constructing all items included in the Proposal *except* those items contained in the Alternate(s).

2. Alternate(s)

   a. Alternate A1
      Based on constructing (***12” Water Main from Approximately STA 5+94 to STA 12+24***)

The Bid items for Alternate A1 are as listed in the Bid Proposal.

Bidding Procedures

To be considered responsive the Bidder shall submit a price on each and every Bid item included in the Base Bid and all Alternate(s.)

The successful Bidder will be the Bidder submitting the lowest responsible Bid for the highest order Preference that is within the amount of available funds for the project. Available funds will be announced immediately prior to the opening of Bids. The following are listed in order from highest to lowest Preference:

4. Preference 1: Lowest total for Base Bid plus Alternate A1.

5. Preference 2: Lowest total for Base Bid.

The Contracting Agency may, at their discretion, award a Contract for the Base Bid, without any additional Alternates, in the event that all Bids exceed the available funds announced. In any case, the award will be subject to the requirements of Section 1-03.

1-02.7 Bid Deposit

(March 8, 2013 APWA GSP)

Supplement this section with the following:

Bid bonds shall contain the following:

1. Contracting Agency-assigned number for the project;
2. Name of the project;
3. The Contracting Agency named as obligee;
4. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the maximum bid amount that could be awarded;
5. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;
6. The signature of the surety's officer empowered to sign the bond and the power of attorney.

If so stated in the Contract Provisions, bidder must use the bond form included in the Contract Provisions.

If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.

(February 1, 2008, R&E GSP)

Section 1-02.7 is supplemented with the following:

All bid bonds shall be made payable to the City of Ferndale.

1-02.9 Delivery of Proposal

(September 20, 2021 R&E GSP)

Delete this section and replace it with the following:

Each Proposal shall be submitted in a sealed envelope, with the Project Name and Project Number as stated in the Call for Bids clearly marked on the outside of the envelope, or as otherwise required in the Bid Documents, to ensure proper handling and delivery.

Proposals that are received as required will be publicly opened and read as specified in Section 1-02.12. The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids. The Contracting Agency will not open or consider any "Supplemental Information" that is received after the time specified above, or received in a location other than that specified in the Call for Bids.

If an emergency or unanticipated event interrupts normal work processes of the Contracting Agency so that Proposals cannot be received at the office designated for receipt of bids as specified in Section 1-02.12 the time specified for receipt of the Proposal will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which the normal work processes of the Contracting Agency resume.

1-02.10 Withdrawing, Revising, or Supplementing Proposal

(July 23, 2015 APWA GSP)

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

After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may withdraw, revise, or supplement it if:

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and
2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and
3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received before the time set for receipt of Bid Proposals, the Contracting Agency will return the unopened Proposal package to the Bidder. The Bidder must then submit the revised or supplemented package in its entirety. If the Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened. Mailed, Emailed, or faxed requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.

1-02.13 Irregular Proposals

(September 3, 2024 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 Bidder adds provisions reserving the right to reject or accept the Award, or enter into the Contract;
    c. A price per unit cannot be determined from the Bid Proposal;
    d. The Proposal form is not properly executed;
    e. The Bidder fails to submit or properly complete a subcontractor list (WSDOT Form 271-015), if applicable, as required in Section 1-02.6;
    f. The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise Certification (WSDOT Form 272-056), if applicable, as required in Section 1-02.6;
    g. The Bidder fails to submit Written Confirmations (WSDOT Form 422-031) from each DBE firm listed on the Bidder's completed DBE Utilization Certification that they are in agreement with the bidder's DBE 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;
    h. The Bidder fails to submit DBE 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 in accordance with Section 1-07.11;
    i. The Bidder fails to submit a DBE Bid Item Breakdown (WSDOT Form 272-054), if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions;
    j. The Bidder fails to submit the Bidder Questionnaire (DOT Form 272-022), if applicable as required by Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions; or
    k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation.

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. The authorized Proposal Form furnished by the Contracting Agency is not used or is altered;
d. The completed Proposal form contains unauthorized additions, deletions, alternate Bids, or conditions;
e. Receipt of Addenda is not acknowledged;
f. 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
g. If Proposal form entries are not made in ink.

(December 29, 2008 R&E GSP)

Item 1a is supplemented with the following:

"Bidders do not have to be pre-qualified."

1-02.14 Disqualification of Bidders

(May 17, 2018 APWA GSP, Option A)

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.

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1). To assess bidder responsibility, the Contracting Agency reserves the right to request documentation as needed from the Bidder and third parties concerning the Bidder's compliance with the mandatory bidder responsibility criteria.

If the Contracting Agency determines the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1) 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.

1-02.15 Pre Award Information

(December 30, 2022 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.

(December 29, 2008 R&E GSP)

Section 1-02.15 is supplemented with the following:

9. Evidence of financial resources and experience,
10. Organization and equipment the Bidder has available for the performance of the contract by the Bidder and each proposed subcontractor.

1-03 AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids

(December 30, 2022 APWA GSP)

Revise the first paragraph to read:

After opening and reading proposals, the Contracting Agency will check them for correctness of extensions of the prices per unit and the total price. If a discrepancy exists between the price per unit and the extended amount of any bid item, the price per unit will control. If a minimum bid amount has been established for any item and the bidder's unit or lump sum price is less than the minimum specified amount, the Contracting Agency will unilaterally revise the unit or lump sum price, to the minimum specified amount and recalculate the extension. The total of extensions, corrected where necessary, including sales taxes where applicable and such additives and/or alternates as selected by the Contracting Agency, will be used by the Contracting Agency for award purposes and to fix the Awarded Contract Price amount and the amount of the contract bond.

1-03.3 Execution of Contract

(July 8, 2024 APWA GSP Option A)

Revise this section to read:

Within 3 calendar days of Award date (not including Saturdays, Sundays and Holidays), the successful Bidder shall provide the information necessary to execute the Contract to the Contracting Agency. The Bidder shall send the contact information, including the full name, email address, and phone number, for the authorized signer and bonding agent to the Contracting Agency.

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 20 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, a satisfactory bond as required by law and Section 1-03.4, the Transfer of Coverage form for the Construction Stormwater General Permit with sections I, III, and VIII completed when provided. 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 10 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).

1-03.7 Judicial Review

(December 30, 2022 APWA GSP)

Revise this section to read:

All decisions made by the Contracting Agency regarding the Award and execution of the Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington Law. Such review, if any, shall be timely filed 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.

1-04 SCOPE OF THE WORK

1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda

(December 30, 2022 APWA GSP)

Revise the second paragraph to read:

Any inconsistency in the parts of the contract shall be resolved by following this order of precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

1. Addenda,
2. Proposal Form,
3. Special Provisions,

4. Contract Plans,
5. Standard Specifications,
6. Contracting Agency's Standard Plans or Details (if any), and
7. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

1-04.4 Changes

(January 19, 2022 APWA GSP)

The first two sentences of the last paragraph of Section 1-04.4 are deleted.

1-04.6 Variation in Estimated Quantities

(May 25, 2006 APWA GSP)

Supplement this Section with the following:

The quantities for:

Gravel Base

have been entered into the Proposal only to provide a common proposal for bidders. Actual quantities will be determined in the field as the work progresses, and will be paid at the original bid price, regardless of final quantity. These bid items shall not be subject to the provisions of 1-04.6 of the Standard Specifications.

1-05 CONTROL OF WORK

1-05.4 Conformity with and Deviations from Plans and Stakes

Section 1-05.4 is supplemented with the following:

(January 13, 2021)

Contractor Surveying - Roadway

The Contracting Agency has provided primary survey control in the Plans.

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage, surfacing, paving, channelization and pavement marking, illumination and signals, guardrails and barriers, and signing. Except for the survey control data to be furnished by the Contracting Agency, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

The Contractor shall inform the Engineer when monuments are discovered that were not identified in the Plans and construction activity may disturb or damage the monuments. All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the length of the project or be replaced at the Contractors expense.

Detailed survey records shall be maintained, including a description of the work performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall be provided to the Engineer within three working days after the end of the shift.

The meaning of words and terms used in this provision shall be as listed in "Definitions of Surveying and Associated Terms" current edition, published by the American Congress on Surveying and Mapping and the American Society of Civil Engineers.

The survey work shall include but not be limited to the following:

1. Verify the primary horizontal and vertical control furnished by the Contracting Agency, and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.

2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and at points on the alignments spaced no further than 50 feet.

3. Establish clearing limits, placing stakes at all angle points and at intermediate points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown in the Plans.

4. Establish grading limits, placing slope stakes at centerline increments not more than 50 feet apart. Establish offset reference to all slope stakes. If Global Positioning Satellite (GPS) Machine Controls are used to provide grade control, then slope stakes may be omitted at the discretion of the Contractor

5. Establish the horizontal and vertical location of all drainage features, placing offset stakes to all drainage structures and to pipes at a horizontal interval not greater than 25 feet.

6. Establish roadbed and surfacing elevations by placing stakes at the top of subgrade and at the top of each course of surfacing. Subgrade and surfacing stakes shall be set at horizontal intervals not greater than 50 feet in tangent sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-foot intervals in intersection radii with a radius less than 10 feet. Transversely, stakes shall be placed at all locations where the roadway slope changes and at additional points such that the transverse spacing of

stakes is not more than 12 feet. If GPS Machine Controls are used to provide grade control, then roadbed and surfacing stakes may be omitted at the discretion of the Contractor.

7. Establish intermediate elevation benchmarks as needed to check work throughout the project.

8. Provide references for paving pins at 25-foot intervals or provide simultaneous surveying to establish location and elevation of paving pins as they are being placed.

9. For all other types of construction included in this provision, (including but not limited to channelization and pavement marking, illumination and signals, guardrails and barriers, and signing) provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.

10. Contractor shall determine if changes are needed to the profiles or roadway sections shown in the Contract Plans in order to achieve proper smoothness and drainage where matching into existing features, such as a smooth transition from new pavement to existing pavement. The Contractor shall submit these changes to the Engineer for review and approval 10 days prior to the beginning of work.

The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.

The Contractor shall ensure a surveying accuracy within the following tolerances:

	Vertical	Horizontal
Slope stakes	±0.10 feet	±0.10 feet
Subgrade grade stakes set 0.04 feet below grade	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Stationing on roadway	N/A	±0.1 feet
Alignment on roadway	N/A	±0.04 feet
Surfacing grade stakes	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Roadway paving pins for surfacing or paving	±0.01 feet	±0.2 feet

(parallel to alignment)
±0.1 feet
(normal to alignment)

The Contracting Agency may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

When staking roadway alignment and stationing, the Contractor shall perform independent checks from different secondary control to ensure that the points staked are within the specified survey accuracy tolerances.

The Contractor shall calculate coordinates for the alignment. The Contracting Agency will verify these coordinates prior to issuing approval to the Contractor for commencing with the work. The Contracting Agency will require up to seven calendar days from the date the data is received.

Contract work to be performed using contractor-provided stakes shall not begin until the stakes are approved by the Contracting Agency. Such approval shall not relieve the Contractor of responsibility for the accuracy of the stakes.

Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are needed that are not described in the Plans, then those stakes shall be marked, at no additional cost to the Contracting Agency as ordered by the Engineer.

Payment

Payment will be made for the following bid item when included in the proposal:

"Roadway Surveying", lump sum.

The lump sum contract price for "Roadway Surveying" shall be full pay for all labor, equipment, materials, and supervision utilized to perform the Work specified, including any resurveying, checking, correction of errors, replacement of missing or damaged stakes, and coordination efforts.

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.

1-05.11 Final Inspection

Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing

(October 1, 2005 APWA GSP)

1-05.11(1) Substantial Completion Date

When the Contractor considers the work to be substantially complete, the Contractor shall so notify the Engineer and request the Engineer establish the Substantial Completion Date. The Contractor's request shall list the specific items of work that remain to be completed in order to reach physical completion. The Engineer will schedule an inspection of the work with the Contractor to determine the status of completion. The Engineer may also establish the Substantial Completion Date unilaterally.

If, after this inspection, the Engineer concurs with the Contractor that the work is substantially complete and ready for its intended use, the Engineer, by written notice to the Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer does not consider the work substantially complete and ready for its intended

use, the Engineer will, by written notice, so notify the Contractor giving the reasons therefor.

Upon receipt of written notice concurring in or denying substantial completion, whichever is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized interruption, the work necessary to reach Substantial and Physical Completion. The Contractor shall provide the Engineer with a revised schedule indicating when the Contractor expects to reach substantial and physical completion of the work.

The above process shall be repeated until the Engineer establishes the Substantial Completion Date and the Contractor considers the work physically complete and ready for final inspection.

1-05.11(2) Final Inspection and Physical Completion Date

When the Contractor considers the work physically complete and ready for final inspection, the Contractor by written notice, shall request the Engineer to schedule a final inspection. The Engineer will set a date for final inspection. The Engineer and the Contractor will then make a final inspection and the Engineer will notify the Contractor in writing of all particulars in which the final inspection reveals the work incomplete or unacceptable. The Contractor shall immediately take such corrective measures as are necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously, diligently, and without interruption until physical completion of the listed deficiencies. This process will continue until the Engineer is satisfied the listed deficiencies have been corrected.

If action to correct the listed deficiencies is not initiated within 7 days after receipt of the written notice listing the deficiencies, the Engineer may, upon written notice to the Contractor, take whatever steps are necessary to correct those deficiencies pursuant to Section 1-05.7.

The Contractor will not be allowed an extension of contract time because of a delay in the performance of the work attributable to the exercise of the Engineer's right hereunder.

Upon correction of all deficiencies, the Engineer will notify the Contractor and the Contracting Agency, in writing, of the date upon which the work was considered physically complete. That date shall constitute the Physical Completion Date of the contract, but shall not imply acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of

machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final inspection but prior to the physical completion date. Whenever items of work are listed in the Contract Provisions for operational testing they shall be fully tested under operating conditions for the time period specified to ensure their acceptability prior to the Physical Completion Date. During and following the test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first class operating condition. Equipment, electrical controls, meters, or other devices and equipment to be tested during this period shall be tested under the observation of the Engineer, so that the Engineer may determine their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

The costs for power, gas, labor, material, supplies, and everything else needed to successfully complete operational testing, shall be included in the unit contract prices related to the system being tested, unless specifically set forth otherwise in the proposal.

Operational and test periods, when required by the Engineer, shall not affect a manufacturer’s guaranties or warranties furnished under the terms of the contract.

1-05.13 Superintendents, Labor and Equipment of Contractor

(August 14, 2013 APWA GSP)

Delete the sixth and seventh paragraphs of this section.

1-05.15 Method of Serving Notices

(January 4, 2024 APWA GSP)

Revise the second paragraph to read:

> All correspondence from the Contractor shall be served and directed to the 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 written in paper format, hand delivered or sent via certified mail delivery service with return receipt requested to the 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.

Add the following new section:

1-05.16 Water and Power

(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the contract includes power and water as a pay item.

1-06 CONTROL OF MATERIALS

1-06.4 Handling and Storing Materials

(February 1, 2008 R&E GSP)

Section 1-06.4 is supplemented with the following:

The Contractor shall make arrangements for storage of equipment and materials.

No staging area is provided by the Contracting Agency.

1-06.6 Recycled Materials

(January 4, 2016 APWA GSP)

Delete this section, including its subsections, and replace it with the following:

The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.

Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled Materials Reporting.

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.

(April 3, 2006)
Confined Space
Confined spaces are known to exist at the following locations:

boring pits

The Contractor shall be fully responsible for the safety and health of all on-site workers and compliant with Washington Administrative Code (WAC 296-809).

The Contractor shall prepare and implement a confined space program for each of the confined spaces identified above. The Contractors Confined Space program shall be sent to the Contracting Agency at least 10 days prior to the Contractor beginning work in or adjacent to the confined space. No work shall be performed in or adjacent to the confined space until the plan is submitted to the Engineer as required. The Contractor shall communicate with the Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both the Contracting Agency's and Contractor's workers when working in or near a confined space.

All costs to prepare and implement the confined space program shall be included in the bid prices for the various items associated with the confined space work.

1-07.2 State Sales Tax

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).

1-07.6 Permits and Licenses

Section 1-07.6 is supplemented with the following:

(January 2, 2018)

The Contracting Agency has obtained the below-listed permit(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.
WSDOT Utility Franchise Permit	WSDOT	UF-NW-2023-023

1-07.7 Load Limits

(March 13, 1995 WSDOT GSP)

Section 1-07.7 is supplemented with the following:

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

1-07.11(2) Contractual Requirements

(November 25, 2024 APWA GSP)

Delete item 11 of the first paragraph of Section 1-07.11(2).

1-07.15 Temporary Water Pollution/Erosion Control

(February 1, 2008 R&E GSP)

Section 1-07.15 is supplemented with the following:

Erosion Control shall include but not be limited to preventing storm water which has come in contact with disturbed or excavated areas from entering the storm drainage system. The contractor will not allow flow from existing ditches or ground water to come in contact with disturbed or excavated areas. The contractor shall be required to take any means necessary to prevent, control and stop water pollution or erosion within the project as shown on the Plans.

1-07.17 Utilities and Similar Facilities

(April 2, 2007 WSDOT GSP)

Section 1-07.17 is supplemented with the following:

Locations and dimensions shown in the Plans 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:

Puget Sound Energy
Jane Major, PSE Project Manager/Public Improvement
360-791-2748
jane.major@pse.com

Ziply Communications
Barb Robinson
360-770-6594
barbara.robinson@ziply.com

Comcast Cable
Alvin Kuntz
(425) 293-1009

alvin_kuntz@cable.comcast.com

Astound (formerly Wave)
Jeremiah Strand
360-500-9011
jeremiah.strand@astound.com

Cascade Natural Gas
Cameron Krier
(360)-812-5243
Cameron.krier@cngc.com

City of Ferndale Public Works
Bo Westford
360-384-4006
BoWestford@cityofferndale.org

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, 2024 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.

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

G. 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.

H. 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.

I. Under no circumstances shall a wrap up policy be obtained, for either initiating or maintaining coverage, to satisfy insurance requirements for any policy required under this Section. A **"**wrap up policy**"** is defined as an insurance agreement or arrangement under which all the parties working on a specified or designated project are insured under one policy for liability arising out of that specified or designated project**.**

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
- Reichhardt & Ebe Engineering, Inc.

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:

$2,000,000	Each Occurrence
$3,000,000	General Aggregate
$3,000,000	Products & Completed Operations Aggregate
$2,000,000	Personal & Advertising Injury each offence
$2,000,000	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

(July 22, 2024 R&E GSP)

General Restrictions

Construction vehicles using a closed traffic lane shall travel only in the normal direction of traffic flow unless expressly allowed in an accepted traffic control plan. Construction vehicles shall be equipped with flashing or rotating amber lights.

Work over an open lane of traffic will not be allowed, unless a plan for the protection of the traveling public from objects falling onto the traveled way is approved by the Engineer. This protection shall remain in place during construction and meet minimum vertical clearance for the highway.

Controlled Access

No special access or egress shall be allowed by the Contractor other than normal legal movements or as shown in the Plans.

Pedestrian Access

The Contractor shall keep all pedestrian routes and access point (including sidewalks and crosswalks when located within the project limits) open and clear at all times unless permitted otherwise by the Engineer in an approved traffic control plan.

Signs and Traffic Control Devices

All signs and traffic control devices for the permitted closures shall only be installed during the hours specified on the plans. Construction signs, if placed earlier than the specified hours of closure, shall be turned or covered so as not to be visible to motorists.

Hours of Darkness

The Contractor shall, at no additional cost to the Contracting Agency, make all arrangements for operations during hours of darkness. A portable illumination system, which will adequately illuminate the entire work area shall be provided. Flagger stations and advance warning signs shall be illuminated by floodlights that do not create glare that poses a hazard for drivers and to the satisfaction of the Engineer. Flares are for emergency use and are not considered a proper method of illumination.

Advance Notification

The Contractor shall be responsible for notifying private property owners, or tenants, five (5) working days in advance of scheduled interruptions of access to private roads or driveways. The Contractor shall notify the Engineer three (3) working days in advance of scheduled interruptions of access to private road or driveways. The

Contractor shall only interrupt access to one half of any private road or driveway. The Contractor shall notify private property owners, or tenants, by having a representative of the Contractor personally contact the private property owner or tenant. If the property owner or tenant is not available, the Contractor shall leave a door hanger notice indicating the commencement date of work, duration of work, the type of work being done, and the Contractor's and Engineer's phone number and address for questions and concerns. The Engineer shall be provided adequate time to review, comment, and approve the door hanger notice prior to the Contractor placing any notices. Access shall be restored as soon as possible, but not later than the end of each working day. Any exception will only be allowed with the approval of the private property owner, or tenant, and the Engineer. All costs involved with public notification shall be incidental to the various bid items.

Advance Notification – General Public

The Contractor shall notify the Engineer in writing of any traffic impacts related to lane closure, shoulder closure, sidewalk closure, or any combination for the week by 12:00 p.m. (noon) Wednesday the week prior to the stated impacts.

The Contractor shall notify the Engineer in writing ten working days in advance of any traffic impacts related to full roadway closure, ramp closure, or both.

The Contractor shall notify the Engineer in writing of any changes to the stated traffic impacts a minimum of 48 hours prior to the traffic impacts.

Public Notification

The Contractor shall notify the local fire, police, emergency service, and city engineering departments; transit companies; and the affected school district(s) in writing a minimum of 5 working days prior to each closure. The Contractor shall furnish copies of these notifications to the Engineer.

1-07.24 Rights of Way

(April 22, 2025 APWA GSP)

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits unless arrangements for use of private property are made as described below.

Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

Whenever any of the work is accomplished on or through property other than public Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the

private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

Whenever easements or rights of entry have not been acquired prior to advertising, these areas are so noted in the Plans. The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Engineer certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. If the Contractor is delayed due to acts of omission on the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

Each property owner shall be given 48 hours' notice prior to entry by the Contractor. This includes entry onto easements and private property where private improvements must be adjusted.

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

1-08 PROSECUTION AND PROGRESS

Add the following new section:

1-08.0 Preliminary Matters

(May 25, 2006 APWA GSP)

Add the following new section:

1-08.0(1) Preconstruction Conference

(July 8, 2024APWA 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 review DBE Requirements, Training Plans, and Apprenticeship Plans, when applicable.
5. To establish normal working hours for the work;
6. To review safety standards and traffic control; and
7. 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 **noon on the working day** 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

Section 1-08.1 is supplemented with the following:

(February 1, 2008 R&E GSP)

Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed.

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. City of Ferndale Contractor and Subcontractor or Lower Tier Subcontractor Certification.

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(7)A Payment Reporting

(November 25, 2024 APWA GSP

Delete this section and replace it with the following:

1-08.1(7)A VACANT

1-08.1(8)B Clauses Required in Subcontracts of All Tiers
(November 25, 2024 APWA GSP)
Delete item 8 of the second paragraph of Section 1-08.1(8)B.

1-08.3(2)A Type A Progress Schedule
(December 30, 2022 APWA GSP)

Revise this section to read:

The Contractor shall submit **3** copies of a Type A Progress Schedule no later than at 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.

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.

(February 1, 2008 R&E GSP)
Section 1-08.4 is supplemented with the following:

Project Meetings

The Engineer shall be responsible for preparation of agenda, preparation of minutes and distribution of documentation. One set of the documentation will be sent to each participant. All meetings will be held at on-site, unless otherwise agreed upon.

Progress Meetings

Regular Progress Meetings shall be schedule by the Engineer. Progress Meetings shall be held weekly or as otherwise schedule by the Engineer.

The Progress Meeting agenda shall include, but not be limited to:

1. Review minutes of previous meeting, amend minutes if necessary, and accept minutes.
2. Review unresolved questions and issues from previous Progress Meetings and further consider those questions and issues.
3. Review new questions and issues regarding delays, coordination with other agencies, changed conditions or work scope, interferences, utilities, and requests for information (RFI's).
4. Review corrective measures to regain projected schedule
5. Review status of submittals, RFI's, change issues, as-built documentation, and other correspondence.
6. Review effects of proposed changes on progress schedule and coordination
7. Contractor to present updated look-ahead / as-built schedule describing activities to occur in the upcoming three weeks, and to document the as-built schedule for work accomplished since the prior meeting. Contractor to present the updated schedule at each regular weekly progress meeting.

Coordination Meetings

Coordination Meetings will commence after the NTP has been issued. The purpose of the Coordination Meetings is to coordinate the Contractor's Work with the work being done concurrently at the Site by others. Coordination meetings will be scheduled in conjunction with progress meetings when appropriate.

Additional Meetings

Additional meetings will be scheduled as necessary for the completion of various portions of the Work. Meetings will include pre-installation, pre-testing or other purpose as required by the specifications, conditions on the jobsite, or as requested by the Engineer or the project team.

All costs involved with the various meetings shall be incidental to the various bid items.

1-08.5 Time for Completion

(December 10,2024 R&E GSP)

Section 1-08.5 is supplemented with the following:

The project Base Bid Work shall be physically completed within **30** working days.

The project Alternate A1 Work shall be physically completed within **15** working days

(December 30, 2022 APWA GSP, Option B)

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the **5th** 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 all partial or whole days the Engineer declares as unworkable. The statement will be identified as a Written Determination by the Engineer. If the Contractor does not agree with the Written Determination of working days, the Contractor shall pursue the protest procedures in accordance with Section 1-04.5. By failing to follow the procedures of Section 1-04.5, 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

1-08.9 Liquidated Damages
(February 5,2025 R&E GSP)

Revise the second and third paragraphs to read:

Accordingly, the Contractor agrees:

1. To pay (according to the following formula) liquidated damages for each working day beyond the number of working days established for Physical Completion of the Base Bid and Alternate A1, and

2. To authorize the Engineer to deduct these liquidated damages from any money due or coming due to the Contractor.

Liquidated Damages Formula

$LD_{Base\ Bid}=0.15C_{Base\ Bid}/T_{Base\ Bid}$
$LD_{Alternate\ A1}=0.15C_{Alternate\ A1}/T_{Alternate\ A1}$

Where:

$LD_{Base\ Bid}$ = liquidated damages per working day (rounded to the nearest dollar) of Base Bid
$C_{Base\ Bid}$ = original Contract amount of Base Bid
$T_{Base\ Bid}$ = original time for Physical Completion of Base Bid

$LD_{Alternate\ A1}$ = liquidated damages per working day (rounded to the nearest dollar) of Alternate A1
$C_{Alternate\ A1}$ = original Contract amount of Alternate A1
$T_{Alternate\ A1}$ = original time for Physical Completion of Alternate A1

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine the Contract 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

1-09.2 Weighing Equipment

1-09.2(1) General Requirements for Weighing Equipment

(November 25, 2024 APWA GSP, Option B)

Revise item 4 of the fifth paragraph to read:

4. Test results and scale weight records for each day's hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027LP, Scaleman's Daily Report, unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

1-09.2(5) Measurement

(December 30, 2022 APWA GSP)

Revise the first paragraph to read:

Scale Verification Checks – At the Engineer's discretion, the Engineer may perform verification checks on the accuracy of each batch, hopper, or platform scale used in weighing contract items of Work.

1-09.6 Force Account

(December 30, 2022 APWA GSP)

Supplement this section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication, that

the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by the Engineer.

(February 1, 2008 R&E GSP)

Section 1-09.6 is supplemented with the following:

No claim for force account shall be allowed except upon written order by the Engineer prior to the performance of the work. The Contractor shall submit the required force account documentation to the Engineer on a daily basis unless agreed otherwise. The Contractor and the Engineer shall review all work or material to be paid for under force account on a daily basis unless agreed otherwise. The Contractor may propose corrections to the force account quantities and shall supply supporting documentation to the Engineer within 2 working days, unless agreed otherwise, of having reviewed the force account quantities with the Engineer.

1-09.8 Payment for Material on Hand

(August 3, 2009 WSDOT GSP)

The last paragraph of Section 1-09.8 is revised to read:

The Contracting Agency will not pay for material on hand when the invoice cost is less than $2,000. As materials are used in the work, credits equaling the partial payments for them will be taken on future estimates. Each month, no later than the estimate due date, the Contractor shall submit a letter to the Project Engineer that clearly states: 1) the amount originally paid on the invoice (or other record of production cost) for the items on hand, 2) the dollar amount of the material incorporated into each of the various work items for the month, and 3) the amount that should be retained in material on hand items. If work is performed on the items and the Contractor does not submit a letter, all of the previous material on hand payment will be deducted on the estimate. Partial payment for materials on hand shall not constitute acceptance. Any material will be rejected if found to be faulty even if partial payment for it has been made.

1-09.9 Payments

(July 8, 2024 APWA GSP, Option A)

Supplement this section with the following:

Lump sum item breakdowns are not required when the bid price for the lump sum item is less than $20,000.

(July 8, 2024, APWA GSP, Option B)

Delete the fourth paragraph and replace it with the following:

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 payment. 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.

1-09.11(3) Time Limitation and Jurisdiction

(December 30, 2022 APWA GSP)

Revise this section to read*:*

For the convenience of the parties to the Contract it is mutually agreed by the parties that all 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 all 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 all such claims or causes of action. It is further mutually agreed by the parties that when 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 all records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

1-09.13 Claims Resolution

1-09.13(3)A Arbitration General

(January 19, 2022 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) Venue for Litigation

(December 30, 2022 APWA GSP)

Revise this section to read:

Litigation shall be brought in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. It is mutually agreed by the parties that when litigation occurs, the Contractor shall permit the Contracting Agency to have timely access to all records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

1-10 TEMPORARY TRAFFIC CONTROL

1-10.1 General

(March 17, 2010 R&E GSP)

Section 1-10.1 is supplemented with the following:

During grading operations, the elevation difference between the portion of the traveled way open to traffic and the adjoining portion of roadway shall be tapered at 10:1 or greater to allow cross traffic.

In addition, for any modifications to the access provisions, the Contractor shall furnish satisfactory documentation that the affected property owners concur with the proposed change. The Contractor shall be responsible to coordinate with and make the necessary arrangements to accommodate the access requirements of the affected property owners and the public services.

If a modification to traffic control is deemed necessary by the Engineer, the contractor shall immediately implement any requested modification(s). The need for flashing warning lights shall be as determined by the Engineer. The cost of modifications to the tragic control plans as directed by the Engineer shall be considered incidental to the Contract.

The Contractor shall determine and place signs in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) and the Plans. A traffic control plan shall be submitted to the Engineer for review and approval prior to the beginning of construction.

1-10.2(1) General

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

(October 3, 2022)

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
https://www.nwlett.edu

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709
1-800-521-0778
https://www.esc.org

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
https://atssa.com/training

Integrity Safety
13912 NE 20th Ave.
Vancouver, WA 98686
(360) 574-6071

https://www.integritysafety.com

US Safety Alliance
(904) 705-5660
https://www.ussafetyalliance.com

K&D Services Inc.
2719 Rockefeller Ave.
Everett, WA 98201
(800) 343-4049
https://www.kndservices.net

1-10.2(2) Traffic Control Plans

(December 1, 2016 R&E GSP)

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

Any modifications to existing plans or new traffic plans shall be submitted to the Engineer for review and approval a minimum of five (5) working days prior to institution of the plan.

DIVISION 2:
EARTHWORK

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

(February 4, 2008 R&E GSP)

Section 2-01.1 is supplemented with the following:

This item also includes any clearing and grubbing necessary for the construction of driveways, storm drain system, and the reconstruction of intersecting roads shown on the plans.

Clearing and Grubbing work includes removal and disposal of topsoil to a depth of 6-inches and trees as shown on the plans. In addition to natural materials, clearing and grubbing shall also include removing and disposing of all refuse and any remaining structures, obstructions, trees and/or tree stumps within the right-of-way excluding contiguous pavement or structures identified under "Removal of Structures and Obstructions", as directed by the Engineer.

2-01.2 Disposal of Useable Material and Debris

(February 4, 2008 R&E GSP)

Section 2-01.2 is supplemented with the following:

Unless otherwise provided in the specifications, all material removed under this item shall become the property of the Contractor.

2-01.2(1) Disposal Method No. 1 - Open Burning

(February 4, 2008 R&E GSP)

Section 2-01.2(1) is supplemented with the following:

Disposal method No. 1 shall not be permitted within the project limits.

2-01.2(3) Disposal Method No. 3 - Chipping

(March 17, 2010 R&E GSP)

Section 2-01.2(3) is supplemented with the following:

Revise the fourth sentence to read:

"All chips shall become the property of the Contractor and shall be removed".

2-01.3 Construction Requirements

2-01.3(1) Clearing

(February 4, 2008 R&E GSP)

Section 2-01.3(1) is supplemented with the following:

8. The Contractor shall clear all areas staked and flagged prior to the placement of cut/fill stakes, offset stakes or grade hubs.
9. Tree trimming shall be sequenced so that overhanging limbs are removed prior to commencing construction activities. Construction activities include equipment staging, materials storage, and worker-vehicle parking.
10. When tree roots are encountered during construction activities, the Contractor shall carefully expose all roots greater than1 inch diameter, either by hand or gently with the machine bucket, and then cut cleanly with lopper or saw. Pulling and wrenching of the roots shall not be allowed.

2-01.3(2) Grubbing

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

f. Stumps shall be removed except where doing so would damage water, sewer lines or other utilities. Voids left by stump removal shall be backfilled with a granular material and compacted in accordance with Section 2-03.3(14)C. Unless otherwise noted, all materials removed shall become the property of the Contractor and shall be disposed of outside the project limits.
g. If equipment outriggers are placed between the proposed sidewalk and the trees, the Contractor shall place plywood or large wood chips to spread out the weight of the outriggers.

2-01.5 Payment

(February 4, 2008 R&E GSP)

Section 2-01.5 is supplemented with the following:

"Clearing and Grubbing," lump sum. No additional payment shall be made for haul. Any other clearing and grubbing not specifically identified as being paid for elsewhere will be considered incidental to this bid item and no other payment shall be made.

2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

2-02.1 Description

(September 15, 2008 R&E GSP)

Section 2-02.1 is supplemented with the following:

Also included will be existing asphalt concrete pavement, chip seal, cement concrete curbs, gutter, sidewalk, driveways, retaining walls, guardrail and posts, plugging drainage pipes, landscaping structures, fire hydrants, fences, light fixtures, paneling, and other structures necessary to complete the work indicated on the plans or as directed by the Engineer. Equipment, labor, and materials necessary to perform the work as specified shall be considered a portion of this work. All material shall be hauled offsite to a permitted, Contractor provided disposal site in accordance with Section 2-03.3(7)C. No payment will be made for haul.

2-02.3 Construction Requirements
(February 4, 2008 R&E GSP)

Section 2-02.3 is supplemented with the following:

Utility Removal
Cavities left by removal of features by other parties, i.e., utility poles or other obstructions, shall be backfilled and compacted by the Contractor in accordance with Section 2-03.3(14)C.

Use of Explosives
Explosives shall not be used in the demolition.

2-02.3(2) Removal of Bridges, Box Culverts, and other Drainage Structures
(September 15, 2008 R&E GSP)

Section 2-02.3(2) is supplemented with the following:

Removal of Drainage Structures and/or Manholes
Where shown in the Plans the Contractor shall remove drainage structure and/or manholes regardless of the size or type. Each drainage structure and/or manhole shall be removed in its entirety. Prior to backfilling the resultant void, the Contractor shall plug and abandon the existing pipe(s) with commercial concrete in accordance with Section 7-08.3(4).

Voids left by structure removal shall be backfilled and compacted in accordance with Section 2-03.3(14)C.

All materials removed shall become the property of the Contractor and shall be disposed of outside the project limits.

2-02.3(3) Removal of Pavement, Sidewalks, Curbs and Gutters
(February 4, 2008 R&E GSP)

Section 2-02.3(3) is supplemented with the following:

Delete Item 1. No on-site burial of pavement, sidewalks, curbs and gutters, is allowed.

Item 3 is supplemented with the following: “At locations where the existing pavement is to remain, the horizontal sawcut line shall not vary more than 1/8 inch along the edge of a 10-foot straightedge placed on the surface parallel to the horizontal sawcut line.”

Removal of Asphalt Concrete Pavement

The approximate thickness of the pavement is:

3" Asphalt Concrete Pavement and chip seal.

Removing and Resetting Ecology Blocks

Where shown in the Plans, approximate STA 1+42, 5’ LT, the Contractor shall remove all the ecology blocks, temporarily relocate the ecology blocks, and reset the ecology blocks to their original location once the Contractor has completed all the Work as part of the lump sum item “Removal of Structures and Obstructions". The Contractor shall coordinate with the CONTRACTING AGENCY to determine where the blocks shall be temporarily relocated.

2-02.4 Measurement

(February 4, 2008 R&E GSP)

Section 2-02.4 is supplemented with the following:

Removal of manholes will be measured by the unit for each manhole removed.

Saw-cut ACP will be measured by the linear foot-inch along the line and slope of the cut prior to sawcutting and as staked by the Engineer.

2-02.5 Payment

(February 4, 2008 R&E GSP)

Section 2-02.5 is supplemented with the following:

The lump sum contract price for “Removal of Structures and Obstructions" shall be full compensation for all tools, equipment, materials, and labor to perform the work as specified, including removing, hauling, disposing, and disposing fees, of the above materials, removing, relocating, and resetting ecology blocks, and removing, transporting, and unloading the salvaged materials. Removal of any structures and obstructions readily apparent by visual inspection from the ground surface and not identified elsewhere will be considered incidental to this bid item.

“Removing Manhole”, per each.

The unit contract price per each for "Removing Manhole" shall be full pay to perform the work as specified, including disposal.

The unit contract price per linear foot-inch for "Saw-cut ACP" as indicated on the Bid Proposal shall be full compensation for all labor, including hand removal if required, material, tools and equipment required to complete the Bid Items in accordance with Section 1-04.1.

2-03 ROADWAY EXCAVATION AND EMBANKMENT

2-03.1 Description

Section 2-03.1 is supplemented with the following:

The work described in this section, regardless of the nature or type of the materials encountered includes excavating and grading the roadway and areas for curb, gutter and sidewalk, driveways, excavating in borrow pits, excavating below grade, excavating channels, removing slide materials and disposing of all excavated material. This work also includes stockpiling, placing and compacting Engineer approved materials generated during roadway excavation at locations shown on the Plans or as directed by the Engineer. Any excavation or embankment required to maintain positive drainage to or from drainage ditches or swales will be considered incidental to this bid item. This item also includes any excavation required to construct new driveway accesses.

Groundwater may be encountered within the project boundary. Refer to the geotechnical report in the appendix for further information.

Excess material shall become the property of the contractor for disposal. This work may include temporary stockpiling of material as dictated by the contractor's operations. No specific stockpile sites are provided within the project limits, however on-site stockpiling may be permitted as approved by the Engineer. The costs for stockpiling shall be included in the bid items in this section.

2-03.3 Construction Requirements

2-03.3(7)C Contractor-Provided Disposal Site

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

Before completing any filling outside of the project limits, the Contractor, or property owner desiring to receive the fill, shall acquire all permits and approvals required for the use of the disposal site. Permits shall be provided to the Contracting Agency upon request.

2-03.3(10) Selected Material

Section 2-03.3(10) is supplemented with the following:

As indicated in the contract, existing suitable roadway excavation materials, shall be used as embankment, unless otherwise directed by the Engineer.

2-03.3(14) Embankment Construction

2-03.3(14)C Compacting Earth Embankments

Section 2-03.3(14)C is supplemented with the following:

Only Method B is allowed.

2-03.3 (14)E Unsuitable Foundation Excavation

Section 2-03.3(14)E is supplemented with the following:

Prior to any backfilling, the Contractor shall proof roll the subgrade with a loaded dump truck, large self-propelled vibrating roller, or equivalent piece of equipment, to verify stability of the subgrade. The associated cost to proof roll the roadway will be considered incidental to the unit contract prices of this Contract.

2-03.4 Measurement

Section 2-03.4 is supplemented with the following

"Unsuitable Foundation Excavation Incl. Haul" shall be measured beginning 2 feet below the plan roadway excavation lower limits to the depth of excavation as directed by the Engineer. There is no limit to the depth of excavation to be paid under this item.

When the Engineer requires excavated material to be removed, stockpiled, and moved again, the material will be measured to the neat line of that removed from the stockpile. No separate measurement or payment will be made for stockpiled materials.

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 with the volume of asphalt concrete pavement deducted.

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 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 Engineer.

Removal of asphalt concrete pavement will not be measured under this bid item. Pavement removal shall be paid under the bid item “Removal of Structures and Obstructions” in accordance with Section 2-02.

2-03.5 Payment

Section 2-03.5 is supplemented with the following:

The unit contract price per cubic yard for "Roadway Excavation Including Haul" shall be compensation for all labor, materials, tools and equipment necessary to excavate, shape, load, stockpile for later embankment or otherwise dispose of surplus or unsuitable material off-site as specified herein. This item shall include the cost of compacting and proof rolling the subgrade.

"Embankment Compaction" includes loading, hauling, stockpiling, placing, grading, and compacting suitable excavated material generated under any roadway excavation within the Project limits.

2-04 HAUL

2-04.4 Measurement

(February 5, 2008 R&E GSP)

Section 2-04.4 is revised to read:

No specific unit of measurement shall apply. All costs involved for haul shall be incidental to and included in the various bid items.

2-04.5 Payment

(February 5, 2008 R&E GSP)

Section 2-04.5 is deleted in its entirety.

2-05 PAVEMENT PULVERIZING (NEW SECTION)

(February 28, 2025 R&E GSP)

2-05.1 Description

This Work consists of full depth in-place pulverizing of the existing asphalt concrete pavement (ACP) and bituminous surface treatment (BST) along with a portion of the underlying base and re-laying the pulverized material to construct a new base as indicated on the Plans. The Work shall include lowering and protecting existing utility lids; pulverizing, shaping, regrading, and compacting the existing asphalt pavement for use in the roadway section, in conformance with these specifications and in conformity with the lines, grades, depths, and typical cross sections shown on the Plans or as directed by the Engineer.

2-05.3 Construction Requirements

As shown on the Plans, existing ACP and BST within the project limits shall be pulverized the full depth. The existing base shall also be pulverized to the depth shown on the Plans and mixed with the pulverized asphaltic pavement. Windrow material as construction operations dictates.

The thickness of the existing asphalt pavement averages 1 to 2 inches thick. Driveway pavement and roadway pavement not pulverized but shown for removal shall be planed as shown in the plans.

Immediately after pulverizing, the Contractor shall re-lay the material with a paver, grader, or both a paver and grader. If sufficient material is available at a given location, match the lines, grades, and cross slopes shown on the Plans. If there is insufficient material at a given location, shape the available pulverized material to create a smooth profile and cross slope. Localized bumps, depressions, and ruts shall be eliminated.

Immediately after re-laying, the re-laid material shall first be compacted with either a rubber-tired roller or vibratory padfoot roller and second with a vibratory steel roller. Water shall be added as required to ensure proper compaction.

The Contractor shall complete each day's pulverizing and re-lay pulverized material to avoid leaving abrupt longitudinal differences between adjacent lanes. The Contractor shall grade shoulders adjacent to pulverized areas by the end of each workday to provide positive drainage of the pavement. The Contractor shall repair surface damage caused by intervening construction or public traffic immediately before paving as necessary or as directed by the Engineer.

Existing raised pavement markers shall be removed prior to the pulverizing of pavement.

The pulverized material shall conform to the following gradation:

Sieve Size	Percent Passing (by weight)
2" square opening	100%

Acceptance of the gradation will be based on visual inspection.

Pulverized pavement cannot be used under sidewalks or side slopes outside sidewalks. Pulverized pavement can only be used within the roadway section.

Placing, grading, and compacting shall be in accordance with Section 4-02.3 of the Standard Specifications or as approved by the Engineer.

Following the completion of the pavement pulverizing, the Contractor shall survey the subgrade to determine where roadway excavation or gravel base is required. Pulverized pavement shall be used in the pavement section as gravel base for the roadway subgrade and shall not be placed as trench backfill.

2-05.4 Measurement

Pavement Pulverizing will be measured in place by the square yard of existing pavement to be pulverized. No separate measurement will be made for lowering and protecting existing utility lids.

2-05.5 Payment

"Pavement Pulverizing," per square yard.

The unit contract price per square yard for "Pavement Pulverizing" shall be full compensation for material, labor, tools, equipment, and incidentals required for pulverizing the existing pavement, placing and grading pulverized material within the road section, including haul within project limits, compaction, lowering and protection of existing utility lids and removal of existing pavement markings.

2-07 WATERING

2-07.4 Measurement

(September 15, 2008 R&E GSP)

Section 2-07.4 is supplemented with the following:

The Contractor shall provide water distribution records including truck tickets and operator time records if requested by the Engineer. The contractor will not be allowed to use City water from fire hydrant without first renting a backflow preventer and meter from the City. Use of City water must be pre-approved by the Public Works Department. If Contracting Agency water is used, water meter records will be recorded and used as the basis for payment.

2-09 STRUCTURE EXCAVATION

2-09.1 Description

Section 2-09.1 is supplemented with the following:

(******)

Dewatering

The requirements for construction dewatering as specified herein are based on site hydrogeologic conditions, construction requirements, and seasonal constraints. Construction dewatering is to be performed to provide and maintain all excavations sufficiently free of groundwater and in a hydrostatic condition suitable for the required construction.

Dewatering shall consist of the furnishing, installation, testing, operation, maintenance, and removal of dewatering systems to achieve proper completion of all work performed under this Contract.

The Contractor shall be responsible for the design, maintenance, operation and removal of the dewatering system. The Contractor shall dispose of all water in a manner that is compliant with all pertinent permitting and regulatory requirements. The Contractor shall at all times have on hand sufficient pumping equipment and machinery in good working condition for emergencies, including power outage (if applicable), and shall have available at all times competent workers for the continuous and successful operation of the dewatering and monitoring systems. The Contractor shall be responsible for maintaining all electric power service (if applicable) connections to the dewatering system components.

The Contractor shall maintain water levels at or below elevations specified in the contract documents.

2-09.3 Construction Requirements

(September 15, 2008 R&E GSP)

Section 2-09.3 is supplemented with the following:

Select excavated material, as approved by the Engineer, shall be used as backfill. If the Engineer determines that native material is not suitable for trench backfill, import gravel shall be used and payment shall be made per Section 4-02.5.

(******)

Dewatering

The Contractor shall:

1. Provide sufficient number of pumps with adequate capacity at the site. Standby pumps and power or fuel supply shall be on hand at all times. Provide appropriate sumps and ditches where necessary.
2. If pumps other than electric are used and if the pumps are operated at night, they shall be critically silenced with operating decibel levels not to exceed 80dB measured at 50 feet from the equipment.
3. If generators are operated at night, they shall be critically silenced with operating decibel levels not to exceed 80dB measured at 50 feet from the equipment.
4. Maintain the dewatering system during all phases of construction.
5. Be responsible for operating, maintaining, and monitoring the dewatering system. System maintenance shall include, but not be limited to, at least daily supervision by some responsible person skilled in the operation, maintenance, and monitoring of flows from wells and sumps, replacement of system components, and any other work required to maintain the performance of the system.
6. Water levels shall be maintained at or below the depth of excavation sufficient to allow the installation of utilities and allow survey measurements necessary for measurement of excavation volumes as described in other sections.

Dewatering Submittals

The Contractor shall submit to the Engineer a dewatering plan for the method, installation and details of the dewatering system the Contractor proposes to use.

Review by the Engineer of the method, installation and operation and maintenance details submitted by the Contractor shall not in any way be considered to relieve the Contractor from full responsibility for errors therein or from the entire responsibility for complete and adequate performance of the system in controlling the water level in the excavated areas. The Contractor shall be solely responsible for proper design, installation, operation, protection, maintenance, and any failure of any component of the dewatering system for this Contract. The Contractor shall submit the dewatering plan to the Engineer for review a minimum of 14 days prior to the start of excavation at the site.

As a minimum, the Contractor shall provide the following submittals:

1. Drawings indicating the location and size of any dewatering wells, well points, berms, ditches, sumps, vacuum and discharge lines, flowmeters, sedimentation tanks, and additional monitoring wells.
2. Specifications for pumps including curves.
3. Detailed description of the dewatering schedule, operation, maintenance, and abandonment procedures.

Throughout the duration of the project, the Contractor shall submit weekly reports on daily dewatering and disposal operations. The reports shall present the following information.

1. Number of wells in operation for each system.
2. Average rate of water pumped from each pump and well.
3. Total rate of flow from the system.
4. Description of any problems with dewatering equipment or operations.

If the dewatering system plan is revised due to field conditions, the Contractor shall, within 5 working days of revision, resubmit revised working drawings and calculations as necessary to reflect changes required by field conditions.

Electrical Supply for Dewatering System

If used, the electrical service used for dewatering shall be supplied by the Contractor and shall be separate from all other Contractor electrical requirements.

Dewatering Discharge

Should the Contractor elect to discharge flow onto the surface, the Contractor shall be responsible for full dispersion of the discharge flows sufficient to prevent erosion. The Contractor shall be responsible for complying with water quality standards. The Contractor, at their own cost shall be responsible for the repair and/or maintenance of the field for correction of impacts due to the dewatering efforts.

System Removal

Upon written authorization of the Engineer, the Contractor shall remove from the site all dewatering system elements. Assume ownership and responsibility for the disposal

of all dewatering pumps, pipes and other assorted system hardware. Remove and abandon all wells in accordance with State and Local laws and requirements, including, but not limited to WAC 173-160-381 and RCW 18.104.

2-09.3(4) Construction Requirements, Structure Excavation, Class B

Section 2-09.3(4) is supplemented with the following:

All trenches shall be backfilled and completed by the end of the day. No payment shall be made for backfill of native materials. Gravel base shall be used for backfill unless the Engineer approves the use of native material

2-09.4 Measurement

Section 2-09.4 is supplemented with the following:

(******)

No specific unit of measure will be made for the lump sum item “Dewatering”.

2-09.5 Payment

Section 2-09.5 is supplemented with the following:

(******)

“Dewatering”, lump sum.

The lump sum contract price for “Dewatering” shall be full pay for performing the work as specified, including furnishing, installation, operation, maintenance, and removal of the dewatering system.

DIVISION 4:
BASES

4-02 GRAVEL BASE

4-02.2 Materials
(February 5, 2008 R&E GSP)

Section 4-02.2 is replaced with:

Material shall meet the requirements of Section 9-03.10 Gravel Base as modified. Refer to revised Section 9-03.10 Aggregate for Gravel Base.

4-02.4 Measurement
(February 5, 2008 R&E GSP)

Section 4-02.4 is revised to read:

"Gravel Base" shall be measured by the ton and shall include haul.

4-02.5 Payment
(February 5, 2008 R&E GSP)

Section 4-02.5, delete the second paragraph and replace with the following:

"Gravel Base" per ton.

Proof rolling of material at the direction of the Engineer will be considered incidental to this bid item.

4-04 BALLAST AND CRUSHED SURFACING

4-04.4 Measurement
(February 5, 2008 R&E GSP)

Section 4-04.4 is revised as follows:

The second paragraph is revised to read:

"Crushed Surfacing Top Course", shall be measured by the ton and shall include haul.

4-04.5 Payment
(February 5, 2008 R&E GSP)

Section 4-04.5 is revised as follows:

Delete the second paragraph and replace with the following:

"Crushed Surfacing Top Course", per ton.

DIVISION 5:
SURFACE TREATMENTS AND PAVEMENTS

5-04 Hot Mix Asphalt

(January 31, 2023 APWA GSP)

Delete Section 5-04, 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. The manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with these Specifications. WMA processes include organic additives, chemical additives, and foaming.

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.

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 (RAP)	9-03.8(3)B, 9-03.21
Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B, 9-03.21
Mineral Filler	9-03.8(5)
Recycled Material	9-03.21

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.

The Contractor may choose to utilize recycled asphalt pavement (RAP) in the production of HMA. The RAP may be from pavements removed under the Contract, if any, or pavement material from an existing stockpile.

The Contractor may use up to 20 percent RAP by total weight of HMA with no additional sampling or testing of the RAP.

If the Contractor wishes to utilize High RAP/Any RAS, the design must be listed on the WSDOT Qualified Products List (QPL).

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

The Contractor may only use warm mix asphalt (WMA) processes in the production of HMA with 20 percent or less RAP by total weight of HMA. The Contractor shall submit to the Engineer for approval the process that is proposed and how it will be used in the manufacture of HMA.

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.

5-04.2(1) How to Get an 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 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 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 & signature) 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:

- Be designed for *****3***** million equivalent single axle loads (ESALs).
- 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 Mix Design. 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 ESALs appropriate for the required use.

5-04.2(2)B Using Warm Mix Asphalt Processes

The Contractor may elect to use additives that reduce the optimum mixing temperature or serve as a compaction aid for producing HMA. Additives include organic additives, chemical additives and foaming processes. The use of Additives is subject to the following:

- Do not use additives that reduce the mixing temperature more than allowed in Section 5-04.3(6) in the production of mixtures.
- Before using additives, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed additive and process.

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, except the cost of temporary pavement markings, 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.

5-04.3(3)D Material Transfer Device or Material Transfer Vehicle

A Material Transfer Device/Vehicle (MTD/V) shall only be used with the Engineer's approval, unless otherwise required by the Contract.

Where an MTD/V is required by the Contract, the Engineer may approve paving without an MTD/V, at the request of the Contractor. The Engineer will determine if an equitable adjustment in cost or time is due.

When used, the MTD/V 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. If a windrow elevator is used, the length of the windrow may be limited in urban areas or through intersections, at the discretion of the Engineer.

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 or pick up HMA from a windrow.

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.

To be approved for use, an MTD:

1. Shall be positively connected to the paver.

2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.

3. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.

4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

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

When the Proposal includes a pay item for crack sealing, seal cracks in accordance with Section 5-03.

5-04.3(4)B Vacant

5-04.3(4)C 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

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. Also, when a WMA additive is included in the manufacture of HMA, the discharge temperature of the HMA shall not exceed the maximum recommended by the manufacturer of the WMA additive. 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.

Recycled asphalt pavement (RAP) utilized in the production of HMA shall be sized prior to entering the mixer so that a uniform and thoroughly mixed HMA is produced. If there is evidence of the recycled asphalt pavement not breaking down during the heating and mixing of the HMA, the Contractor shall immediately suspend the use of the RAP until changes have been approved by the Engineer. After the required amount of mineral materials, RAP, new asphalt binder and asphalt rejuvenator 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, and RAP is ensured.

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”	0.15 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.

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	+/-6%	+/- 8%
No. 8 Sieve	+/- 6%	+/-8%
No. 200 sieve	+/- 2.0%	+/- 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 Content** – 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 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 CPF shall be performed.

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

Testing of HMA for compliance of V_a will 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 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 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 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 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 WAQTC TM 8, 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 FOP for WAQTC TM 8 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 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.

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 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 PF 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.

(February 25, 2008 R&E GSP)
Section 5-04.3(12)A1 is supplemented with the following:

All joints of new hot mix asphalt to an existing pavement shall be sealed with an appropriate asphalt joint sealer.

5-04.3(12)B Bridge Paving Joint Seals

Bridge Paving Joint Seals shall be in accordance with Section 5-03.

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 and Pre-Planing Briefing (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 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.

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.

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, 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 the Paving and Planing:

   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, public convenience and safety, and other Contractors who may operate in the Project limits.

   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 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, streetcar rail, and castings, before planing as per 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 of 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 of equipment as it relates to meeting Specification requirements.

c. Number of JMFs to be placed, and if more than one JMF is used, how the Contractor will ensure different JMFs are distinguished, how pavers and how MTVs are distinguished, 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

Construct HMA approaches at the locations shown in the Plans or where staked by the Engineer, in accordance with Section 5-04.

5-04.4 Measurement

HMA Cl. ___ PG ___, HMA for ___ Cl. ___ PG ___, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the mixture. If the Contractor elects to remove and replace mix as allowed by Section 5-04.3(11), the material removed will not be measured.

Roadway cores will be measured per each for the number of cores taken.

Pavement repair excavation will be measured by the square yard of surface marked prior to excavation.

Planing bituminous pavement will be measured by the square yard.

5-04.5 Payment

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

"HMA Cl. ___ PG ___", per ton.

"HMA for Approach Cl. ___ PG ___", per ton.

"HMA for Preleveling Cl. ___ PG ___", per ton.

"HMA for Pavement Repair Cl. ___ PG ___", per ton.

"Commercial HMA", per ton.

The unit Contract price per ton for "HMA Cl. ___ PG ___", "HMA for Approach Cl. ___ PG ___", "HMA for Preleveling Cl. ___ PG ___", "HMA for Pavement Repair Cl. ___ PG ___", and "Commercial HMA" shall be full compensation for all costs, including 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.

"Pavement Repair Excavation Incl. Haul", per square yard.

The unit Contract price per square yard for "Pavement Repair Excavation Incl. Haul" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4) with the exception, however, that all costs involved in the placement of HMA shall be included in the unit Contract price per ton for "HMA for Pavement Repair Cl. ___ PG ___", per ton.

"Asphalt for Prime Coat", per ton.

The unit Contract price per ton for "Asphalt for Prime Coat" shall be full payment for all costs incurred to obtain, provide and install the material in accordance with Section 5-04.3(4).

"Prime Coat Agg.", per cubic yard, or per ton.

The unit Contract price per cubic yard or per ton for "Prime Coat Agg." shall be full pay for furnishing, loading, and hauling aggregate to the place of deposit and spreading the aggregate in the quantities required by the Engineer.

"Planing Bituminous Pavement", per square yard.

The unit Contract price per square yard for "Planing Bituminous Pavement" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(14).

"Job Mix Compliance Price Adjustment", by calculation.

"Job Mix Compliance Price Adjustment" will be calculated and paid for as described in Section 5-04.3(9)C6.

"Compaction Price Adjustment", by calculation.

"Compaction Price Adjustment" will be calculated and paid for as described in Section 5-04.3(10)D3.

"Roadway Core", per each.

The Contractor's costs for all Work associated with the coring (e.g., traffic control) shall be incidental and included in the unit Bid price per each.

"Cyclic Density Price Adjustment", by calculation.

"Cyclic Density Price Adjustment" will be calculated and paid for as described in Section 5-04.3(10)B.

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

7-05 MANHOLES, INLETS, AND CATCH BASINS

7-05.3(1) Adjusting Manholes and Catch Basins to Grade

(February 5, 2008 R&E GSP)

Section 7-05.3(1), paragraph 1 is revised to read:

Where shown in the Plans or where directed by the Engineer, the existing manholes, catch basins, inlets, water valve boxes, or water meter boxes shall be adjusted to the grade as staked or otherwise designated by the Engineer.

(February 8, 2018 R&E GSP)

Leveling devices used to adjust structures to final grade shall be pre-cast rectangular or circular adjustment sections (risers).

7-05.4 Measurement

Section 7-05.4 is supplemented with the following:

No specific unit of measure shall apply for the item “Adjustments to Finished Grade.”

Measurement for "Commercial HMA" required for Adjustments to Finished Grades shall be per ton in accordance with Section 5-04.

7-05.5 Payment

(April 10, 2008 R&E GSP)

Section 7-05.5 is supplemented with the following:

“Adjustments to Finished Grade”, lump sum.

The lump sum price for “Adjustments to Finished Grade” shall be full compensation for all labor, tools, equipment, and materials necessary to adjust existing structures to finished grades within the project limits.

7-09 WATER MAINS

7-09.1 Description

Section 7-09.1 is supplemented with the following:

Suitable native materials shall be used for trench backfill with approval from or at the direction of the Engineer. Unsuitable native material shall become the property of the contractor for disposal. Excess suitable native material shall be embanked according to the plans and specifications.

All thrust blocks shall be installed per details shown on the plans and inspected by the Engineer prior to backfilling. All bends shall include a thrust block per the details or as indicated on the Plans. Thrust blocks may be substituted with restrained joints at the discretion of the Contractor. The Contractor shall submit detailed sketches and plans of the proposed restrained joints to the Engineer not less than one week prior to the expected construction. The costs for thrust blocks or restrained joints shall be incidental to other items of work. No additional payment shall be made should the Contractor choose to substitute restrained joints for thrust blocks

7-09.2 Materials

Section 7-09.2 is supplemented with the following:

Pea Gravel shall not be used for pipe bedding on water mains.

At the time of installation, the high-density polyethylene (HDPE) pipe materials shall not be more than 6 months old from the date of manufacture.

7-09.3(5) Grade and Alignment

Section 7-09.3(5) is supplemented with the following:

Finished grade is the proposed ground elevation unless otherwise staked by the Engineer or Surveyor. Pipes installed, which do not meet minimum cover requirements, shall be replaced at the Contractor's expense. Minimum cover over waterlines shall be 3-feet, except for where specifically noted on the plans.

7-09.3 (7) Trench Excavation

7-09.3(7)A Dewatering of Trench

Section 7-09.3(7)A is supplemented with the following:

If the Contractor fails to adequately dewater the trench and bore pit and prevent water or other materials from entering the pipe, the Contractor shall at their expense thoroughly clean the line per section 7-09.3(24)A, prior to disinfecting the main.

7-09.3(8) Removal and Replacement of Unsuitable Materials

Section 7-09.3(8) is supplemented with the following:

Unsuitable material consists of excavated silt, clay, and organic material and in-situ materials which provide less than 1500 psf bearing capacity (as determined by a penetrometer test by the Engineer) shall be excavated and replaced with select backfill or ballast at the direction of the Engineer. All unsuitable material shall be removed from the site and hauled to a permitted, Contractor provided disposal site in accordance with Section 2-03.3(7)C.

7-09.3(9) Bedding The Pipe

Section 7-09.3(9) is supplemented with the following:

The contractor shall bed the pipe with Engineer approved native material, or provide imported bedding material meeting the requirements for Gravel Backfill 9-03.12(3). Bedding material or suitable native material used for pipe bedding will be considered incidental to the pipe bid item.

7-09.3(10) Backfilling Trenches

Section 7-09.3(10) is supplemented with the following:

Native backfill containing organics, un-compactable or deleterious materials are considered unsuitable. Driveways must be filled and compacted as required for driveway and pavement repair in accordance with the Plans. Where the Engineer determines that the native material is not suitable for backfill, the Contractor shall provide imported trench backfill material in accordance with Section 9-03.10 as modified. No additional payment shall be made for placement or compaction in the trench. Excess native materials after trench backfill shall be embanked in accordance with the plans and specs. Payment of imported backfill is per ton per Section 4-02. When water mains are installed within the roadway prism, trench backfill shall include the minimum structural section for the roadway. Detectable marking tape shall be installed over the water main.

7-09.3(11) Compaction of Backfill

Section 7-09.3(11) is supplemented with the following:

Trenches which are located outside the roadway may be backfilled with native material upon approval of the Engineer, and compacted to 85% of maximum density as specified in Section 2-03.3(14)D. All other trenches shall be compacted to 95% of the maximum dry density. Compaction of native or imported backfill shall be incidental to other items of work.

7-09.3(12) General Pipe Installation

Section 7-09.3(12) is supplemented with the following:

(*****)

Welding Specifications

A trained technician shall perform welding by fusion. ASTM D2657, Standard Practice for Heat-Joining Polyolefin Pipe and Fittings, as well as HDPE pipe manufacturer's instructions and recommendations shall apply. It shall be the Contractor’s responsibility to ensure that each fusion weld meets minimum strength and integrity suitable to withstand tensile pulling and bending forces expected to be exerted on the pipe string during pullback. It is recommended that the Contractor make use of a commercially available fusion weld monitoring system to record fusion weld data for each fused joint so that remedial action can be taken immediately if the joint is shown to not have been welded properly.

7-09.3(13) Handling of Pipe

Section 7-09.3(13) is supplemented with the following:

(*****)

Receiving, Storing And Handling Materials

The HDPE pipe will be stored in the open in a suitable area approved by the Contracting Agency. All materials purchase and handling will be the responsibility of the Contractor. This includes off-loading, transporting into storage, assembling and transporting from storage to the work area. HDPE pipe shall be properly stored and handled to prevent damage in accordance with the manufacturer's recommendations and as approved by the Engineer. Damage is described as, but is not limited to, gouging, abrasion, flattening, cutting, puncturing, or ultra-violet light (UV) degradation. A thorough inspection of the pipe materials shall be performed prior to installation.

(*****)

Repair and Rejection

HDPE pipe may be repaired for minor superficial damage. Damaged liner pipe which has been penetrated over 10% of the wall thickness at either the inner or outer wall surface, shall be repaired by cutting out the damaged section and replacing it with new pipe. All repair methods shall be submitted to the Engineer for prior approval. HDPE pipe shall be inspected for damage immediately prior to installation. If liner pipe is found to be superficially damaged, the Engineer may allow the pipe to be repaired or may reject it. Rejected liner pipe shall be replaced with a new section of liner pipe at the Contractor's expense.

7-09.3(19)A Connections to Existing Mains

Section 7-09.3(19)A is supplemented with the following:

Connection to existing mains is the full responsibility of the Contractor. Temporary routing of existing pipelines or services, shoring, temporary thrust blocks, extra fittings required to route the pipe over or under existing or new pipe or other utilities and all other work and materials required for making complete, permanent and workable connections are incidental to other items of work.

The Contractor shall be responsible for determining which residents will be affected by shutoffs, and will notify them 24 hours in advance. The Contractor shall notify private property owners, or tenants, by having a representative of the Contractor personally contact the private property owner or tenant. If the property owner or tenant is not available, the Contractor shall leave a door hanger notice indicating the commencement date of work, duration of work, the type of work being done, and the Contractor's and Engineer's phone number and address for questions and concerns. The Engineer shall be provided adequate time to review, comment, and approve the door hanger notice prior to the Contractor placing any notices.

The Contractor shall locate and verify the type of pipe, size, and depth prior to making the connection. Detailed sketches and plans of the connection proposed by the Contractor shall be given to the Engineer not less than one week prior to the

expected construction. The City of Ferndale shall be notified not less than two (2) working days prior to connection to existing mains.

(*****)

High Density Polyethylene Pipe (HDPE) Connection to Mains

The types of connections are varied and suggested piping arrangements have been shown on the Plans. For connection by any other method, the Contractor shall furnish a detailed sketch for approval not less than two weeks prior to the expected construction. All other work and materials required for making complete, permanent and workable connections are incidental to other items of work.

7-09.3(24) Disinfection of Water Mains

Section 7-09.3(24) is supplemented with the following:

The liquid chlorine injection method described below or approved alternate method shall be used. Hypochlorite granules (65%) shall be mixed with water and injected into the main to acquire a minimum of 50 mg/l of chlorine in the main. A typical method is as follows: The chlorine solution is mixed in a container (new, clean garbage can) and fed into the new water main using a pressurizing pump. The injection is made at a corporation stop or similar fitting at the fill point of water from the existing City of Ferndale main. Filling and injection rates shall be reviewed by the Engineer prior to disinfection. Chlorine content at the beginning and end of each required 24-hour disinfection period, and prior to bacteriological testing shall be sampled by the Engineer. The cost for the first sequence of sampling and lab testing shall be paid for by the City of Ferndale. Subsequent testing and inspection shall be paid by the Contractor. The Engineer shall be notified 24 hours prior to conducting disinfecting and flushing operations.

7-09.3(24)A Flushing

Section 7-09.3(24)A is supplemented with the following:

Water for flushing mains may be taken from a hydrant providing an approved backflow device is utilized. Velocity for testing must equal or exceed 2.5 fps. The connection must be capable of passing at least 400 gallons per minute (gpm) for flushing 8-inch diameter mains.

The Contractor shall be responsible for disposal of treated water flushed from mains and shall neutralize the waste water before disposal. An adequate amount of reducing agent shall be applied to water being disposed of in order to thoroughly neutralize the chlorine residual remaining in the water per AWWA Standard Section C651.

7-09.3(24)N Final Flushing and Testing

(July 12, 2010 R&E GSP)

Section 7-09.3(24)N is supplemented with the following:

Upon completion of final flushing, the main shall be filled with water and allowed to

remain filled for 24 hours. The Engineer shall obtain a sample at the end of this 24-hour period. A satisfactory report shall be received before placing the lines into service.

7-09.3(24)O Repetition of Flushing and Testing

Section 7-09.3(24)O is supplemented with the following:

The City shall furnish water for the initial flushing and testing process. In the event additional water is needed for flushing or testing, the Contractor shall connect a meter and pay the City for actual water used, at the commercial rate. The Contractor will pay for additional bacteriological testing required because of failed samples. The Contractor will be responsible for all cost associated with re-testing, including laboratory fees, and inspection.

7-09.4 Measurement

Section 7-09.4 is supplemented with the following:

Measurement for connect to existing water main shall be measured per each connection completed.

Measurement for high density polyethylene pipe (HDPE) connection to mains shall be measured per each connection completed.

No measurement shall be made for marking tape. Marking tape shall be considered incidental to the work of constructing the water main.

No measurement shall be made for clearing and grubbing, removal of existing street improvements, removal of the abandoned watermain, removal of existing valve boxes, protection of existing utilities and service, trench excavation and pipe zone backfill, pipe zone bedding, thrust blocks, and compaction of backfill.

7-09.5 Payment

Section 7-09.5 is supplemented with the following:

"Connect to Existing ___ In. Diam. Watermain", per each.
The unit contract price bid per each "Connect to Existing ___ In. Diam. Watermain" shall be full compensation for all work to connect to the existing mains, including but not limited to excavating, removing existing fittings and thrust blocks, backfilling, laying and jointing pipe, pipe and fittings, and cover and cleanup."

"High Density Polyethylene Pipe (HDPE) Connection to Main. __ In. Diam.", per each.
The unit contract price bid per each "High Density Polyethylene Pipe (HDPE) Connection to Main. ____ In. Diam" shall be full compensation for all work to connect HDPE pipe to the mains, including but not limited to excavating, and thrust

blocks, backfilling, laying and jointing pipe, pipe and fittings, and cover and cleanup."

"High Density Polyethylene Pipe (HDPE) Pipe for Watermain, __ In. Diam.", per linear foot.

The unit contract price per linear foot for "High Density Polyethylene Pipe (HDPE) Pipe for Watermain, __ In. Diam." shall be full pay for all Work to complete the installation of the water main, including but not limited to, trench excavation, bedding, laying and jointing pipe and fittings, fusion joining, backfilling, concrete thrust blocking, testing, disinfecting the pipeline, flushing, dechlorination of water used for flushing, and cleanup

7-10 HORIZONTAL DIRECTIONAL DRILLING (HDD) – NEW SECTION

(July 10, 2024 R&E GSP)

7-10.1 Description

This work shall consists providing all equipment, labor, tools and material to install high-density polyethylene (HDPE) pipe casing as shown on the Plans using the horizontal directional drilling (HDD) method.

Contractor Qualifications

Installation of pipeline by the horizontally drilled, directionally controlled method shall be only by a contractor with a nominated resident Superintendent having a minimum of five (5) years experience in horizontal directional drilling. The Superintendent shall have successfully completed a minimum of three (3) directionally drilled pipe installations, 12" or greater in diameter and in excess of 1,000 feet in length in medium dense sand-type materials. Contractor shall furnish the Engineer with a list of references substantiating this requirement.

7-10.1(1) Definitions

Horizontal Directional Drilling – The horizontal directional drilling method is a process whereby a steel pilot string is drilled along the centerline of the desired pipe pathway from an entry point at the surface to an exit point also at the surface. The pilot string alignment and grade can be controlled precisely during installation. Upon completion of the pilot drill work, the drill rod head is fitted with a back reamer to which are welded one or more product pipe strings and the whole assembly is pulled back into the ground towards the original entry point. Any pipe depth can be selected consistent with the minimum depth shown on the Plans, the allowable radius of curvature of the pilot string, and the product pipe. Swabbing can be performed if required to insure an open conduit.

7-10.2 Materials and Equipment

Materials shall meet the following requirements and sections:

Polyethylene (PE) Pressure Pipe (4 inches and over)	9-30.1(6)
Polyethylene (PE) Pipe (4 inches and over)	9-30.2(10)

Pipe shall be 20" Diam., DR 9 high-density polyethylene (HDPE) pipe with carbon black additive for environmental stress corrosion resistance. At the time of installation, the HDPE materials shall not be more than 6 months old from the date of manufacture.

Pipe installation Lubricants -- Drilling fluid shall be bentonite-based and its composition shall be submitted to the Engineer for review prior to use. No fluid shall be used that does not comply with permit and current environmental regulations.

Equipment shall meet the following requirements:

Contractor shall use a horizontal directional drilling machine with minimum 34,000 lb pullback capability to install 14" Diam. HDPE pipe. This equipment will be reviewed by the Engineer and must be approved prior to beginning construction.

The equipment shall include drill heads, reamers, swabbing heads and other tooling that is suitable for the soil conditions as described in the soils information report contained in the Appendix.

All equipment shall be capable of completing the defined scope of work within the constraints and staging allowances as defined by the existing rights-of-way for this project.

7-10.3 Construction Requirements

7-10.3(1) Submittals

7-10.3(1)A General

The Contractor shall submit the following information for review by the Engineer a minimum of two weeks prior to commencing operations:

1. Name, business address, telephone number, and qualifications of the Contractor or sub Contractor performing the horizontal directional drilling work.

2. Name and previous applicable experience of all supervisory and operating personnel to be directly involved in the work.

3. Written descriptions and/or literature describing and specifying the horizontal directional drilling equipment and tools to be used, including capacity ratings and principals of operation.

7-10.3(1)B Specific

One week prior to commencing the work, Contractor shall submit a detailed installation plan to the Engineer for review. The plan shall include a detailed plan and profile of the bore to be plotted on a scale no smaller than 1" = 20' horizontally and 1" = 10' vertically. This plan must also include calculations showing anticipated maximum pipe stresses during pulling, required drilling fluid pressures, and safety factors for potential drilling fluid excursions. At a minimum the plan will provide:

1. Ground entry angle (5-18 degrees (max.) from horizontal). Contractor has the option to decide precise angle of entry necessary to install pipe within alignment parameters shown on the Plans. Contractor also has the option of excavating an inclined base to allow drill head entry at an angle shallower than specified (5-20 degrees).

2. Ground exit angle from horizontal (5-20 degrees). Contractor has the option to decide precise angle of exit necessary to install pipe within alignment parameters shown on the Plans. Any drill string extension beyond desired exit points to achieve shallower exit angle must be approved by the Engineer prior to execution.

3. Ground exit point shall be plus or minus 3 ft transversely from the centerline of the pipeline as shown on the Plans.

4. Profile of drilled section.

5. Radius of curvature of the drilled hole.

6. Maximum pulling force to be exerted on the pipes during pullback for the pipes to be provided.

7. Layout of rollers or dirt berms under exposed pipes during pullback. Define maximum spacing between rollers.

8. The bending radius of exposed pipe entering the ground during pullback shall not be less than 200' for the 20" Diam. pipe.

9. Drilling fluid shall be bentonite based and its composition shall be submitted to the Engineer for review prior to use. No fluid shall be used that does not comply with permit and current environmental regulations.

10. Copies of sonde logs created as part of construction.

Construction shall not begin until the plan has been approved by the Engineer. Approval by the Engineer shall not relieve the Contractor of responsibility for the sufficiency of the installation plan nor waive or modify any of the provisions of the Contract.

Contractor shall prepare a work schedule that satisfies the completion work dates as noted in Section 1-08.5 and shall include the following:

1. Site stakeout of control points
2. Mobilization and rig setup
3. Pipe delivery, staging and assembly
4. Pipe pressure pre-testing
5. Pilot hole drilling
6. Pre-reaming (if applicable)
7. Reaming
8. Swabbing (if applicable)
9. Pipe pulling
10. Target date for exit from receiving pit
11. Post-pull testing
12. Site restoration and demobilization

7-10.3(2) Construction

7-10.3(2)A General

The work shall include, but not be limited, to the following:

Contractor shall install the horizontally drilled sections of pipe as shown on Plans. The Plans show the desired beginning and end points for the watermain. The Contractor shall identify the minimum space the Contractor will need at each pipe entry pit, pipe staging area and pipe exit point to achieve the desired start and end points for the new water main. A profile has been included which shows all known existing utilities, pipes, structures, equipment and foundations overlying the desired pipe routes. This profile is representative and may not indicate all structures, pipes and features that are present. The Contractor shall establish the recommended depth of the pipeline with the provision that it will be at a minimum depth under the surface as noted on the Plans except at the entry and exit points.

7-10.3(2)B Contractor's Responsibilities

Contractor shall provide all materials, labor, tools and equipment necessary to complete the specified pipe installation and adequate protection of the work, except as noted herein.

Contractor shall comply with provisions of all permits secured by the Contracting Agency for construction of the pipeline.

The Contractor shall supply storage tanks of sufficient capacity to contain and transport the residual drilling fluids produced by the drilling activities. The Contractor will also ensure that all return fluids during drilling operations are contained in suitable drilling

entry and access pits. The Contractor shall be responsible for cleaning up all drilling fluids lost through spillage or excursions ("frac-outs") during drilling operations.

Contractor shall promptly remove from the project site and properly dispose of all drilling fluids and associated cuttings to a suitable disposal site in accordance with Section 2-03.3(7)C following completion of the pipe installation.

If the pipe becomes stuck in the drill hole during pullback and cannot be recovered in whole or in part, Contractor shall seal the pipe and existing drill hole and repeat efforts to achieve a successful drill beginning with a new pilot hole. Contractor shall bear all costs connected with supplying replacement pipe string as required and installing it per Contract Documents.

Contractor shall employ a wired sonde behind the drill head to generate a locator signal for the drill operator. It is not expected that the Contractor will encounter magnetic signal interference along the pipeline alignment caused by soil composition or nearby operating equipment. If magnetic signal interference is encountered, Contractor shall be prepared to install a surface magnetic grid to generate a backup locator signal of suitable strength during installation of the drill and pipe strings.

Contractor shall furnish to the Engineer a copy of each drilling day's original computer printout of the drill head location during the drilling operation at a maximum spacing of 60 ft and an as-built map of the horizontally drilled section showing the "x", "y" and "z" coordinates of the final location of the pipeline. The maximum distance between coordinate points shall be 100 ft. Contractor shall furnish the as-built map within 30 days after project completion. The as-built map shall have a minimum horizontal scale of 1" = 20' and a minimum vertical scale of 1" = 10'. The survey coordinate points shall also be in table form on this map.

7-10.3(2)C Contracting Agency's Responsibilities

The Contracting Agency shall obtain all permits required for access to the work areas shown on the Plans.

7-10.3(2)D Services for Construction

The Contracting Agency shall furnish water in accordance with Section 2-07 and Section 7-09 for the purpose of lubricant preparation, pipe buoyancy, pipe testing, wash down and cleanup.

Contractor shall supply any other services required at the site such as compressed air, fuel, DC grid power source, shelter from the weather, pipe joint fusion power, etc.

7-10.3(2)E Welding Specifications

Welding specifications shall be in accordance with 7-09.3(12) General Pipe

Installation, Welding specifications**.**

7-10.3(2)F Receiving, Storing And Handling Materials

Receiving, storing and handling of HDPE pipe shall be in accordance with 7-09.3(13) Receiving, Storing And Handling Materials.

7-10.3(2)G Repair and Rejection

Repair and rejection of HDPE pipe shall be in accordance with 7-09.3(13) Repair and Rejection.

7-10.3(3) Soil Conditions

The soils information used for study and design of this project is attached as an appendix.

7-10.3(4) Pipe Installation

7-10.3(4)A Procedure

Contractor shall install the HDPE pipe by the horizontally drilled, directionally controlled method of construction at the locations shown on the Plans. This method shall consist of the drilling of a small diameter pilot hole in a vertical arc from the entry point to the exit point followed by an enlarged (back-reamed) hole through which the product pipe is then pulled. The exact method and techniques for completing the directionally drilled installation will be determined by the Contractor, subject to the requirements of the Contract Documents.

Contractor will at all times provide and maintain instrumentation that will locate accurately the pilot holes and measure drilling flow pressures and discharge rates. The Engineer shall have access to these instruments and their readings at all times.

Contractor shall plot the actual horizontal and vertical alignment of the pilot bore at intervals not exceeding 60 ft. This as-built plan and profile shall be updated as the pilot bore advances. Contractor shall employ experienced personnel to operate the directional drilling equipment and, in particular, the position monitoring and steering equipment. No information pertaining to the position or inclination of the pilot bore shall be withheld from the Engineer. At the end of the bore the Contractor shall provide the Engineer with the coordinates of the pilot hole.

The entry points for the pilot holes are shown on the Plans. The Contractor shall establish these points precisely and coordinate staking with the Engineer.

The desired pilot hole exit points are also shown on the Plans. The actual exit points can be within 3 ft east or west of the desired exit points. If the pilot hole bores fail to arrive within the stated parameters, the Engineer, at the Engineer’s discretion, can request that

new pilot bore holes be drilled. The Contractor shall coordinate the staking of these points with the Engineer.

The pipe alignments shown on the Plans have been set with the expectation that the holes will be drilled as shown on the Plans and that the casing pipe will be staged in the work area and pulled into the ground heading east. The actual method of accomplishing the work will be left to the Contractor.

The space between the carrier pipe and the casing shall be plugged per the plans. Casings abandoned due to an encountered obstruction shall be grout sealed with sand bags and shall be filled with a grout sealant at least 1 foot thick and each end of the casing. Grout shall obtain a minimum 3,000 psi compressive strength in 7 days. The remainder of the void between the conduit and casing shall be filled with sand.

Water main shall be installed within the casing with approved casing spacers. Spacers shall be installed per plan at a minimum spacing as directed by the pipe manufacturer or at a minimum of 6-ft on center, whichever is more restrictive.

Unexpected Object Removal

Removal of unexpected objects such as stumps, buried pavement, building foundations, and other items defined by the Engineer that are encountered during the drilling operation shall be considered incidental to the drilling operation unless the Engineer determines that the object cannot be removed by on site equipment or methods.

The cost of removing unexpected objects that require equipment or methods other than those available on site will be paid by force account.

Requests for extensions of time due to this work will be evaluated in accordance with Section 1-08.8.

7-10.3(4)B Drilling Mud and Cuttings

The Contractor shall dispose of all recovered drilling fluid and cuttings. All removal and disposal activities shall meet current environmental regulations and permit requirements (if applicable). All collection and transportation costs for disposal shall be borne by the Contractor.

Inadvertent drilling fluid excursions (“frac-outs”) other than at the entry and exit pits shall be minimized. Contractor shall seal and clean up all drilling fluid excursions promptly.

7-10.3(4)C Testing

Following assembly into a continuous string, the pipe shall be tested hydrostatically to 125 psig for a minimum duration of 4 hours without leakage prior to pullback. Pipes

may be tested hydrostatically while on skids or rollers. If the contractor decides to test the pipe on skids or rollers, the Contractor shall follow pipe manufacturer's recommendations. All continuous HDPE pipe strings shall be pre-tested before installation.

7-10.3(4)D Pre-Reaming and Pullback

Pre-reaming for all pipe strings shown on the Plans shall be conducted at the discretion of the Contractor.

7-10.3(4)E Reaming

Size and type of reamer for all pipe strings shown on the Plans shall be selected at the discretion of the Contractor.

7-10.3(4)F Swabbing

At Contractor's option, the finished reamed bole can be swabbed to confirm that it is open and ready for product pipe. A suitable swabbing tool will be selected consistent with soil composition along the bore route.

7-10.3(4)G Pulling Loads

Contractor shall be responsible for determining pulling loads required for his method of installation. Such loads shall be minimized to prevent damage or failure of the pipe string during installation.

7-10.3(4)H Torsional Stress

A swivel connection shall be employed between the product pipes and the reamer (and back reamer, if applicable) to eliminate torsional stress on the product pipe.

7-10.3(4)I Buckling Stress

The Contractor shall fill the underground portion of the pipe with water during pullback to prevent buckling and reduce buoyancy.

7-10.3(4)J Exposed Pipe String

The exposed pipe strings shall be supported on rollers, skids or soil mounds as appropriate to reduce friction resistance and pipe damage.

7-10.3(4)K Pull Section Length

If space allows, the pipe string shall be installed in one continuous pull with no tie-in welds. If staging space is not available, tie-in welds must be minimized.

7-10.3(4)L Water for Drilling, Testing and Buoyancy Control.

Water required for drilling, pipe pre-testing, buoyancy control, post-testing and cleanup shall be provided in accordance with Section 2-07 and 7-09.

7-10.3(4)M Over-Pulling

After the pipe string has been pulled into the reamed borehole, the pipe string shall be pulled so that 10 feet of pipeline is exposed on the end of the bore.

7-10.3(4)N Alignment and Grade

The installed pipe shall be surveyed at all exposed points. The collected data shall be recorded in the Contractor's field book and on the as built record drawings.

7-10.3(5) Restoration

After completion of the drilling, Contractor shall restore entry and access pits and staging areas to their original condition or as directed by the Engineer. Contractor shall clear all work areas of debris and returned drilling fluid.

Contractor shall restore any areas where subsidence has occurred due to drilling activities.

Contractor shall restore entry and exits pits as soon as the work is completed.

7-10.4 Measurement

HDPE casing will be measured by the linear foot along the invert of the installed casing. Casing installed beyond the limits shown in the Plans will be considered as being done for the Contractor's benefit and will not be measured for payment.

7-10.5 Payment

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

"High Density Polyethylene Pipe (HDPE) Pipe for Casing __ In. Diam." per linear foot.

The unit contract price per linear foot for "High Density Polyethylene Pipe (HDPE) Pipe for Casing __ In. Diam." shall be full pay for performing the work as specified, including labor, incidental materials, tools, equipment, apparatus, restoring facilities destroyed or damaged during construction, equipment necessary for staging, fusion joining, furnishing and installing the casing, spacers, end seals, testing, excavating and constructing the HDD and boring pits, native backfilling and compacting, removing and disposal of unsuitable excavated materials, and mortar.

"Force Account Unexpected Object Removal", by force account as provided in Section 1-09.6.

For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Force Account Unexpected Object Removal" in the bid proposal to become a part of the total bid by the Contractor.

7-12 VALVES FOR WATER MAINS

7-12.1 Description

Section 7-12.1 is supplemented with the following:

All valves shall be thrust blocked per the detail shown on the plans. All valve boxes shall be new and a uniform type.

7-12.2 Materials

Section 7-12.2 is supplemented with the following:

Valve boxes outside of the pavement section shall be encased in concrete and furnished with a concrete valve marker conforming to Section 9-30.3(5).

Valve stem extensions will be required on operating nuts located 4 feet below grade per section 9-30.3(6). Extensions shall be incidental to gate valves.

7-14 HYDRANTS

7-14.1 Description

Section 7-14.1 is supplemented with the following:

This work includes the installation of Blue Raised Pavement Markers on the roadway centerline adjacent to all hydrants.

7-14.2 Materials

Section 7-14.2 is supplemented with the following:

The City of Ferndale Standard Fire Hydrants is "M&H model 129S". The pumper port shall be oriented to face the main road.

Fire hydrants shall be painted City colors with two coats of Urethane paint, applied per the paint manufacturer's specifications.

A blue reflector, installed 1 foot off the road centerline towards the hydrant shall be included in the bid item "Hydrant Assembly".

All labor, equipment, and materials necessary to connect fire hydrants shall be incidental to the unit bid prices. Materials include, but are not limited to: gate valves,

fittings, spool fittings, restraints, restrained 6” ductile iron pipe, and thrust blocks.

7-14.3 Construction Requirements

Section 7-14.3 is supplemented with the following:

7-14.3(4)A Removing Existing Hydrants

Existing hydrants shall be removed where shown in the Plans. The existing main to which the existing hydrant lateral tee is connected shall be abandoned after the existing hydrant is removed. The open end of the hydrant lateral pipeline shall be plugged in accordance with 7-08.3(4).

Hydrant Removal

All removed hydrants shall be salvaged without damage and delivered to the City of Ferndale shop yard located at 5735 Legoe Avenue. The contractor shall take care to salvage all hydrants.

Delivery shall occur during the hours of 7:00 a.m. to 3:30 p.m. Monday thru Friday. Five days written advance notice shall be delivered to the Engineer prior to delivery. Material will not be accepted without the required advance notice.

Equipment damaged during removal or delivery shall be repaired or replaced to the Engineer's satisfaction at no cost to the Contracting Agency.

The Contractor shall be responsible for unloading the equipment where directed by the Engineer at the delivery site.

7-14.5 Payment

Section 7-14.5 is supplemented with the following:

The unit contract price per each for "Hydrant Assembly" shall be full compensation for all costs for labor, material, and equipment to remove and deliver existing hydrants, install spool fittings, restraints, thrust blocks, auxiliary gate valve, shackles, tie rods, concrete blocks, painting required for the complete installation of the hydrant assembly as specified, lateral tee and 6” ductile iron watermain to hydrant, hydrant, and blue raised pavement marker.

7-15 SERVICE CONNECTIONS

7-15.1 Description

Section 7-15.1 is supplemented with the following:

This work consists of installing new service connections, replacing existing services, and abandoning existing water service connections as shown on the Plans or at the direction of the Engineer.

All work is to be in conformance with City standards for water services.

7-15.2 Materials

Section 7-15.2 is supplemented with the following:

All fittings shall be brass. Saddles shall be as shown on the Plans with I.P. standard tapping. Corporation stops shall be Ford F700, or approved equal with inlet I.P. standard thread and outlet thread compatible with Type K copper connection piping, with no special adapters, minimum 150 psi.

Within the right-of-way, service piping shall be copper tubing and shall conform to the requirements of ASTM B88, Type K annealed. All underground fittings shall be flared within the right-of-way.

Pea Gravel shall not be used for pipe bedding on service connections.

7-15.3 Construction Requirements

Section 7-15.3 is supplemented with the following:

General

New type K copper tubing shall be installed between the watermain and the meter setter location. The Contractor shall provide and install a new meter setter, and meter box for all service connections, in accordance with the City of Ferndale Standards. All existing water meters, setters, and boxes shall be salvaged by the Contractor and delivered to the City of Ferndale Maintenance Shop.

Service connections shall include connection to the existing service line on the customer side of the meter. The proposed meter and meter setter shall be installed at the correct elevation below subgrade as shown in the plans. If the proposed meter setter is above or below the existing service line on the customer side of the meter, this work shall include all pipe, fittings, materials, tools, and labor to connect the customers' service line to the new setter.

Existing water services shall be abandoned at the existing water main by closing the corporation stop, disjointing the water service pipe from the corporation stop, and removing the existing water service line a minimum of 2 feet from the watermain.

Various items of work in this contract may require disruption of water service to customers on adjacent properties. The Contractor shall keep the service disruptions to an absolute minimum. When more than one item of work requires disruption of the same utility service to the same customer, the Contractor shall schedule the work so that the customer's service is disrupted only once. The Contractor shall be responsible for determining which residents will be affected by shutoffs, and will notify them a minimum of 24 hours in advance. The Contractor shall locate and verify the type of pipe, size, and depth prior to making the connection. Detailed sketches and plans of the connection proposed by the Contractor shall be given to the

Engineer not less than one week prior to the expected construction. The City of Ferndale shall be notified not less than two (2) working days prior to connection to existing mains and existing service line.

Any disrupted services shall be restored before the end of each working day. Overnight disruptions will not be permitted. If, in the opinion of the Engineer, service has not been restored in a satisfactory manner, the Engineer may take whatever action is necessary to restore service. The cost of such action will be deducted from any payments due or coming due the Contractor.

Coordination of Work

The Contractor shall notify the City of Ferndale Public Works Department at 384-4006, 48 hours prior to disconnection of the existing meter. The Contractor shall tag the existing meters to be removed with the corresponding address which is served by that meter and meter reading at time of removal. Once removed these meters shall be delivered to the City of Ferndale Maintenance Shop located at 5735 Legoe Ave.

The Contractor shall coordinate with the City of Ferndale for the collection of the existing meter. The existing water meter shall not be removed and service shall not be interrupted until the new water meter is on hand. The City will determine if a new meter is required and supply said meter.

Meter Removal

All meters and meter boxes removed shall be salvaged without damage and delivered to the City of Ferndale shop yard located at 5735 Legoe Avenue. The contractor shall take care to salvage all meters and fittings.

Delivery shall occur during the hours of 7:00 a.m. to 3:30 p.m. Monday thru Friday. Five days written advance notice shall be delivered to the Engineer prior to delivery. Material will not be accepted without the required advance notice.

Equipment damaged during removal or delivery shall be repaired or replaced to the Engineer's satisfaction at no cost to the Contracting Agency.

The Contractor shall be responsible for unloading the equipment where directed by the Engineer at the delivery site.

7-15.3(1) Flushing and Disinfection

Section 7-15.3(1) is supplemented with the following:

Service testing shall be done in conjunction with water main testing. An acceptance inspection will be made by the Engineer upon completion of all project work. During the inspection, every service shall be turned on to its full capacity to check flow and guarantee that each service line has been flushed. In no case shall the acceptance inspection be made until all project work is complete. Damage incurred during other

construction work on the project shall be corrected by the Contractor prior to acceptance by the Engineer.

7-15.3(2) Adjustments to Finished Grade

Existing water meter and irrigation boxes, which are to remain shall be adjusted to finished grade. This work shall be included in the bid item "Adjustments to Finished Grade."

7-15.4 Measurement

Section 7-15.4 is supplemented with the following:

Measurement for "Service Connection __ In. Diam." shall be measured per each. The following items shall be incidental and included in the unit price per each:

1. Dewatering if required.
2. Structure Excavation Class B Including Haul.
3. Pipe bedding as shown on the plans.
4. Backfill and Compaction.
5. All couplers, fittings, associated gaskets and appurtenances.
6. Connection to existing service pipe.
7. Cleaning.
8. Other work and materials, not specifically identified as being paid elsewhere.

7-15.5 Payment

Section 7-15.5 is supplemented with the following:

The unit contract price per each for "Service Connection, ___ In. Diam." and shall be full pay for all work to remove and deliver existing meters, install the meter boxes, meter setter, gate valve, service connection, including but not limited to, excavating, tapping the main, laying and jointing the pipe and fittings and appurtenances, connecting to existing service line, backfilling, testing, flushing and disinfection of the service connection, and other appurtenances to the location shown on the plans.

DIVISION 8:
MISCELLANEOUS CONSTRUCTION

8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.3 Construction Requirements

8-01.3(1) General

Section 8-01.3(1) is supplemented with the following:

The Contractor shall prepare a Stormwater Pollution Prevention (SWPP) Plan in compliance with the most current edition of the Department of Ecology's Stormwater Management Manual for Western Washington, Volume II – Construction Stormwater Pollution Prevention and the NPDES Permit. The Contractor's ESC Lead shall coordinate with the Contracting Agency in preparing the SWPP Plan. The SWPP Plan is to remain onsite throughout the duration of construction.

8-01.4 Measurement

*(March 18, 2010, 2008 R&E GSP)*Section 8-01.4 is supplemented with the following:

No specific unit of measure shall apply to the lump sum item "ESC Lead."

No specific unit of measurement will apply for the lump sum bid item "SWPP Plan Preparation".

8-01.5 Payment

(March 18, 2010 R&E GSP)

Section 8-01.5 is supplemented with the following:

The first item, "ESC Lead", is revised to read:

"ESC Lead", lump sum.

The item, "Silt Fence" is revised to read:

"Silt Fence" per linear foot. The unit contract price per liner foot for silt fence shall include all costs for removal and disposal of accumulated debris, silt fence maintenance, and silt fence removal and disposal.

"SWPP Plan Preparation", Lump Sum

The lump sum price for SWPP Plan Preparation shall be full compensation for all labor, materials, tools and equipment to satisfactorily complete the work as necessary and defined in the Standard Specifications, these Special Provisions, and the Plans.

8-02 ROADSIDE RESTORATION

8-02.1 Description
(March 15, 2010 R&E GSP)

Section 8-02.1 is supplemented with the following:

Furnish all labor, materials and equipment necessary for installation of planting and installation of topsoil and soil amendments, including but not limited to the preparation of the ground surface, installation of soil amendments, application of fertilizer, installation of seed, and chemicals as necessary in areas shown on the plans or as directed by the Engineer in accordance with these specifications.

The extent and location of seeding work includes all areas in this project , except new plant beds and paved areas, which are disturbed by construction, grading, pavement removal, utility installation and any other of the Contractor's operations or as directed by the Engineer in accordance with these specifications.

The Contractor shall provide 48 hours notice to the Engineer when an inspection is desired.

8-02.3 Construction Requirements

8-02.3(4) Topsoil
(March 18, 2010 R&E GSP)

Section 8-02.3, revise the 1st sentence of this Section to read:

Topsoil shall be evenly spread over the specified areas to a depth of four (4) inches or as otherwise directed by the Engineer. The soil shall be cultivated to a depth of 6 inches. After the topsoil has been spread, all large clods, hard lumps, and rocks 3 inches in diameter and larger, and litter shall be raked up, removed, and disposed of by the Contractor. The area shall then be rolled with a landscape roller in at least 1 direction at a velocity not to exceed 2 feet per second. Spread topsoil after subgrade preparation is complete. Topsoil shall not be placed when the ground or topsoil is frozen, inundated with water, or in a condition detrimental to the Work.

8-02.3(11) Bark or Wood Chip Mulch
(April 22, 2010 R&E GSP)

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

Wood Cellulose mulch shall be applied at a rate of 2,000 pounds per acre. To improve germination of seeds, this rate may be increased with approval by the Engineer.

8-02.3(16) Lawn Installation
(January 31, 2011 R&E GSP)

Section 8-02.3(16) is supplemented with the following:

The Contractor shall perform lawn installation in accordance with the following: Immediately prior to seeded lawn installation, a nominal four (4) inch depth of "Topsoil Type A" shall be placed in the areas requiring seeded lawn installation or as directed by the Engineer. Peat moss mulch shall be applied to a depth of 1/4 inch over newly seeded lawn area. The area shall then be rolled with a landscape roller in at least 1 direction at a velocity not to exceed 2 feet per second. Alternatively, a seed of fabric mulch mat shall be installed as approved by the Engineer.

“Seeded Lawn Installation” will be paid where construction, filling excavation, and grading have disturbed unimproved areas. This will generally consist of areas behind the sidewalk where no established lawns or landscaping currently exist. “Seeded Lawn Installation” shall be placed on all exposed soil disturbed by construction or any area directed by Engineer. “Seeded Lawn Installation” shall also be placed on all fill and cut areas outside roadway surface width, within the project limits.

The intent of seeding is to produce viable roadside vegetation toward the end of preventing erosion. If seeding has not germinated satisfactorily at the time of final acceptance, this work will be considered defective according to Section 1-05.7 of the Standard Specifications. The Engineer may require the Contractor to post security equal to 200% of the amount bid for seeding in order to secure performance of this germination specification. This security shall be in a form acceptable to the City and may be required prior to release of retainage of this project. Said security shall not be released until satisfactory germination has occurred. Any erosion, which in the opinion of the Engineer, occurs directly as a result of insufficient seed germination shall be repaired by the Contractor at no additional expense to the City. Any such repairs shall be completed prior to project acceptance or release of security as identified herein. Satisfactory germination is defined as a minimum of 300 stems per square foot. Any area in which two consecutive one square foot plots sampled fall below this standard will be considered defective and shall be corrected by the Contractor."

The dates for seeding outlined in Section 8-02.3(16)A of the Standard Specifications will be considered guidelines rather than requirements for this item. The Contractor shall use professional judgment and consider factors such as weather and soil moisture to obtain satisfactory germination."

Immediately after hydroseeding, the Contractor shall remove hydroseed overspray from all features other than the intended seeding area."

Binding Agents

Tacking agents and soil binders shall be provided in accordance with Section 8-01.3(2)E.

8-02.4 Measurement
(April 22, 2010 R&E GSP)

Section 8-02.4, is supplemented with the following:

No separate measurement will be made for topsoil, fertilizer, mulch, soil amendments, binding agents, or water where applied for "Seeded Lawn Installation."

All Work performed under "Landscape Restoration" shall be measured and paid in accordance with Section 1-09.6 Force Account.

8-02.5 Payment
(January 31, 2011 R&E GSP)

Section 8-02.5 is supplemented with the following:

The unit contract price per square yard for "Seeded Lawn Installation" shall be full compensation for all labor, materials (topsoil, fertilizer, mulch, soil amendments, binding agents, and water), tools and equipment necessary to perform the work as specified herein. All other items in this Section, not specified on the Bid Proposal form shall be included in the cost of "Seeded Lawn Installation". The unit price shall be full compensation for multiple applications in areas required by the Engineer as the work progresses.

Payment for "Landscape Restoration" shall be on a force account basis as per Section 1-09. For the purpose of providing a common proposal for all bidders, and for that purpose only, the Contracting Agency has established the amount of force account for this item and has entered the amount in the bid proposal to become a part of the total bid by the Contractor.

The following new Section is created:

8-32 POTHOLE EXISTING UNDERGROUND UTILITY

8-32.1 Description

When directed by the Engineer or shown on the Plans, this work shall consist of potholing existing underground utilities. The Contractor shall perform utility investigations or coordinate with utility companies as required. At the direction of the Engineer, the Contractor shall perform exploratory excavations or provide hand potholing as required to collect as-built utility information. The Contractor shall verify the depth and location of existing underground utilities. The Contractor shall immediately notify the Engineer if field conditions differ from that shown on the Plans. The Contractor shall give the owner advance notice of four (4) working days, prior to conducting such investigations.

8-32.4 Measurement

Measurement for potholing existing underground utilities will be by the unit for each

pothole.

8-32.5 Payment

Payment will be made in accordance with Section 1-04.1, for the following bid items:

"Pothole Existing Underground Utility", per each.

The unit contract price per each for "Pothole Existing Underground Utility" shall be full compensation for all equipment, labor, and materials to locate the existing utility, verify the utilities' vertical and horizontal location, and restoring the disturbed area.

The following new Section is created:

8-33 REPAIR EXISTING PUBLIC AND PRIVATE FACILITIES

8-33.1 Description

This work shall consist of the repair of existing public and private facilities, and the correction, repair, removal, or construction of items as directed by the Engineer. This shall not exempt the contractor from protecting known existing facilities, or from the responsibility for repair of such known existing facilities.

8-33.3 Construction Requirements

The contractor shall obtain written or verbal approval from the Engineer, prior to proceeding with any repair of existing or private facilities. Work performed without approval from the Engineer will not be compensated.

The Contractor and the Contracting Agencies' representative or Engineer shall reconcile the hours of work for labor and equipment on a daily basis for the purpose of tracking all work under this item. The Contractor shall supply the Engineer with material invoices for all materials incorporated into this work in a timely manner. Invoices shall be original or copies of original invoices from the material supplier.

8-33.4 Measurement

Work performed under the item "Repair Existing Public and Private Facilities" shall be measured in accordance with Section 1-09.6 Force Account.

8-33.5 Payment

Payment for the item "Repair Existing Public and Private Facilities" shall be full compensation for all labor, tools, equipment, materials and subcontractor work needed to complete individual items of work as directed by the engineer. This item shall be paid in accordance with Section 1-09.6 Force Account.

DIVISION 9:
MATERIALS

9-03 AGGREGATES

9-03.10 Aggregate for Gravel Base

(December 28, 2009 R&E GSP)

Section 9-03.10 is revised to read:

Gravel base shall consist of granular material, either naturally occurring or processed. It shall be essentially free from various types of wood waste or other extraneous or objectionable materials. It shall have such characteristics of size and shape that it will compact readily and the maximum particle size shall not exceed ½ of the depth of the layer being placed.

Gravel base shall meet the following requirements for grading and quality when placed in hauling vehicles for delivery to the roadway or during manufacture and placement into a temporary stockpile. The exact point of acceptance will be determined by the Engineer.

Sieve Size	Percent Passing
4" square	100
1-1/2" square	70-100
1/2" square	35-80
U.S. No. 4	15-50
U.S. No. 40	20 max
U.S. No. 200	5.0 max

Sand Equivalent shall be 40 min.

All percentages are by weight.

Gravel base material retained on a No. 4 sieve shall contain not more than 0.20 percent by weight of wood waste.

9-14 EROSION CONTROL AND ROADSIDE PLANTING

9-14.2 Topsoil

9-14.2(1) Topsoil Type A

General: Topsoil shall be free draining, fertile, friable sandy loam, and shall supply the following composition requirements: weed and seed free; pH between 5.5 and 7.5; maximum particle size to 1/2 inch, with 97% to 100% passing the 3/8 inch screen; soluble salts shall not exceed 4.0 mmho/cm; free of clay lumps, litter and toxic matter harmful to plant growth. Components shall conform to the requirements indicated.

Percentages below are by volume. Mixing of the soil components shall not occur on site.

	Sand	Compost	Sandy Loam
Topsoil for turf, rough grass and plant bed areas	34%	33%	33%

Top Sand: Conform to the following analysis using Tyler Standard Screens - Equivalent U.S. Series Number:

Sieve Size	Percent Passing by Weight
#4	100%
#10	95-100%
#16	85-100%
#30	75-90%
#60	15-30%
#100	0-5%
#200 (wet sieve)	0-1.5%

Composted Mulch: Material shall be derived from aerobic decomposition of recycled plant waste fully composted; material shall be composted on a paved surface and shall have a moisture content of between 20% and 40%; no visible free water or dust shall be produced when handling the material; fresh sawdust or fresh wood by products shall not have been added after the composting process has begun. No recycled sanican waste shall be used. Yard waste shall be from permitted composting facility. Pure organic matter content shall be between 30% and 50% by weight. 100% of composted yard waste shall pass the 7/16 inch screen and a minimum 50% shall pass the 1/4" screen. Material shall be maintained at a 15% oxygen level throughout the composting process.

Sandy Loam: Shall be derived from the "A" horizon of naturally occurring, free draining, friable soils. Soils with a high clay content will be rejected. Submit separate sample for approval prior to mixing.

9-14.3 Seed

Section 9-14.2 is supplemented with the following:

Grass seed for Seeded Lawn Installation shall be a blended seed mixture of non-leafy grasses of a commercial grade for home lawn use. The composition, proportion, and quality shall be subject to the advance approval of the Engineer. Grass seed mixtures for playgrounds, pastures, roadside seeding, or other non-residential use shall not be allowed. The approved grass seed mixture shall be applied to the rate of five pounds per 1,000 square feet.

9-14.4 Fertilizer

Section 9-14.3 is supplemented with the following:

The Contractor shall supply a commercially available starter fertilizer designed by the manufacturer for use in new lawn installation applications. The fertilizer formula and application rate shall provide the following types and amounts of nutrients at a minimum:

Total Nitrogen as N - One pound per thousand square feet
Available Phosphoric Acid as P_20_5 - One pound per thousand square feet
Soluble Potash as K_20 - One pound per thousand square feet.
50-60 percent of the total nitrogen shall be derived from ureaform or ureaformaldehyde. The remainder may be derived from any source.

APPENDICES
(July 12, 1999 WSDOT GSP)

The following appendices are attached and made a part of this contract:

APPENDIX A:
State Prevailing Wage Rates

APPENDIX B:
Geotechnical Data Report

APPENDIX C:
WSDOT Traffic Control Plans

APPENDIX D:
WSDOT Standard Plans

APPENDIX E:
WSDOT AGC Equipment Rental Agreement

APPENDIX F:
As Built Blow Off Photo, Approx 1+75, LT

APPENDIX G:
WSDOT Utility Franchise Permit

(May 5, 2025)
Standard Plans

The Washington State Department of Transportation *Standard Plans* M21-01, published September 2024, is made a part of this Contract with the following revisions:

A-10.30
RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table): The RISER RING detail is deleted from the plan.

INSTALLATION detail, SECTION A: The "1/4"" callout is revised to read "+/- 1/4" (SEE CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)"

A-40.20
Sheet 1, NOTES 1, 2, 3, and 4 are replaced with the following:

1. Use the ½ inch joint details for bridges with expansion length less than 100 feet and for bridges with L type abutments. Use the 1 inch joint details for other applications.

2. Use detail 5, 6, 7 on steel trusses and timber bridges with concrete bridge deck panels.

3. For details 1, 2, 3, and 4, the item "HMA Joint Seal at Bridge End" shall be used for payment. For details 5 and 6, the item "HMA Joint Seal at Bridge Deck Panel Joint" shall be used for payment. For detail 7, the item "Clean and Seal Bridge Deck Panel Joint" shall be used for payment.

Sheet 2, Detail 8 reference to "6-09.3(6)" is revised to read "6-21.3(7)".

A-50.40
Sheet 1, Plan View: The callout "BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21 OR TYPE 24 (SEE STANDARD PLAN C-25.20 OR C-25.30)" is revised to read "BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21, 24, OR 25 (SEE STANDARD PLAN C-25.20, C-25.30, OR C-25.32)"

A-60.40
Note 2 reference to "6-09.3(6)" is revised to read "6-21.3(7)".

B-90.40
Valve Detail – DELETED

C-20.41
Note 4, First Sentence, "Box Culvert guardrail steel posts are not needed for fill depths greater than 40 inches." is revised to read; "Box culvert guardrail steel posts are not needed for fill depths greater than 46 inches. Provide 6-inches or greater of separation between the bottom of the guardrail post and top of the culvert"
BOX CULVERT POST ASSEMBLY, ELEVATION VIEW, post assembly length dimension "41" MIN. 72" MAX." is revised to read; "41" MIN. 78" MAX."
SECTION A, base material depth dimension - "9" MIN. 40" MAX. (SEE NOTE 4)" is revised to read: "9" MIN. 46" MAX. (SEE NOTE 4)"

C20-43

Note 4, First Sentence: “Box culvert guardrail steel posts are not needed for fill depths greater than 40 inches.” is revised to read: “Box culvert guardrail steel posts are not needed for fill depths greater than 46 inches. Provide 6-inches or greater separation between the bottom of guardrail post and top of culvert.”

BOX CULVERT POST & BASE PLATE ASSEMBLY, ELEVATION VIEW, post assembly length dimension – “41” MIN. 72” MAX.” is revised to read: “41” MIN. 78” MAX.”

SECTION A, base material depth dimension - “9” MIN. 40” MAX. (SEE NOTE 4)” is revised to read: “9” MIN. 46” MAX. (SEE NOTE 4)”

C-23.70

Sheet 2, ANCHOR BRACKET ASSEMBLY DETAIL, dimension, “R. 5/16” is revised to read; R. 15/16”

ANCHOR PLATE DETAIL, weld callout (fillet), 1/4" is revised to read; 3/16”

C-60.20

Sheet 1, Plan view, callout – “1/2” (IN) DIAMETER X 6 1/2" (IN) LONG ANCHOR BOLT ~ PER STD. SPEC. SECT. 9-06.5(4) (TYPICAL) (SEE NOTE 7)” is revised to read: “5/8” DIAMETER x 6 1/2" (IN) LONG ANCHOR BOLT ~ PER STD. SPEC. SECT. 9-06.5(4) (TYPICAL) (SEE NOTE 7)”

C-70.15

BARRIER CONNECTION DETAIL, callout – “CENTER GRID IN CONNECTION BLOCKOUT AND FILL VOID WITH TYPE 3 GROUT (STD. SPECIFICATION SECTION 9-20.3(3) PLACED IN ACCORDANCE WITH STD. SPECIFICATION SECTION 6-20.3(20)” is revised to read “CENTER GRID IN CONNECTION BLOCKOUT AND FILL VOID WITH GROUT TYPE 3 (STD. SPECIFICATION SECTION 9-20.3(3) PLACED IN ACCORDANCE WITH STD. SPECIFICATION SECTION 6-02.3(20)”

C81.10

Sheet 1, TYPICAL SECTION – TRAFFIC BARRIER the R4 #6 bar on the traffic face may be placed 4” down from the top of the barrier to allow additional room to install BP railing or other attachments. The R4 bar shall be kept tight to the front R2 bar.

Sheet 4, the existing table “IMPACT SHEAR AND IMPACT MOMENT TABLE” is renamed to “IMPACT SHEAR AND MOMENT TABLE DECK OVERHANG AND CONNECTIONS” keynote 25 is still applicable.

Sheet 4, NOTES, the following Note is added: “3. Deck overhangs for this use constitute plain reinforced concrete typically around 8" in thickness, non-prestressed moment slabs or approach slabs, or plain reinforced and longitudinally prestressed box girders which employ a topping slab. Other Supporting Structure Systems inclusive of post-tensioned decks, walls, and or Structure segments tied together without a topping slab, with the ties in the barrier resistance load path, shall use the impact shear and moments for other supporting structures.”

Sheet 4, the following table is added with a keynote 25.

IMPACT SHEAR AND MOMENT TABLE OTHER SUPPORTING STRUCTURES										
	Interior Segment					**End Segment**				
Roadway and Fill	0	6	12	18	24	0	6	12	18	24

Height at Curb Line (in)										
End Segment Length (ft)	-	-	-	-	-	10.00	10.50	11.25	11.75	12.50
Impact Moment (kip*ft/ft)	19.86	24.12	28.55	33.16	37.97	20.80	25.17	29.65	34.27	39.04
Impact Shear (kip/ft)	7.89	8.04	8.23	8.44	8.68	8.27	8.39	8.54	8.72	8.92

C-81.15

Sheet 1, General Notes, Add Note 7, to read;"7. The concrete class for the moment slab shall be class 4000 typically and class 4000A when the top of the slab is used as the roadway, or sidewalk, surface. The concrete class for the barrier is defined in Standard Specification Section 6-10.3."

C-85.11

On Section B, the callout "3" EXPANDED POLYSTYRENE AROUND COLUMN (TYP.)" is revised to read "3" EXPANDED POLYSTYRENE OR POLYETHYLENE FOAM AROUND COLUMN (TYP.)"

D-3.09

Sheet 1, GEOSYNTHETIC WALL WITH 2 FT TRAFFIC SURCHARGE detail, callout – "BARRIER ON WALL ~ SEE Standard Plan D-3.15 or D-3.16" is revised to read: "BARRIER ON WALL ~ SEE CONTRACT PLANS"

D-3.10

Sheet 1, Typical Section, callout – "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.15" is revised to read; "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE CONTRACT PLANS"

Sheet 1, Typical Section, callout – "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16" is revised to read; "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS"

D-3.11

Sheet 1, Typical Section, callout – ""B" BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "B" BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)

Sheet 1, Typical Section, callout – "TYPICAL BARRIER ON BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "TYPICAL BARRIER ON BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)

D-10.10

Note 7, “If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30” is revised to read “Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 1 and 1SW”.

D-10.15
Note 7, “If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30” is revised to read “Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 2 and 2SW”.

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
Note 5, “If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30” is revised to read “Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 7”.

D-10.45
Note 5, “If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30” is revised to read “Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 8”.

F-10.18
Note 1; “Construct curb joints at concrete pavement transverse joint locations. If all adjacent pavement is HMA, see Standard Plam F-30.10 for Curb Expansion and Contraction Joint Spacing.” is revised to read – “See Standard Plan F-30.10 and Standard Specification Section 8-04.3 for Curb Expansion and Contraction Joint details and spacing.”

F-30.10
All five instances of the “2.0% MAX.” are replaced with “2.1% MAX.”

F-40.12
The one instance of “2.0% MAX.” is replaced with “2.1% MAX.”
Note 7 is replaced with the following:
7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement. When a ramp is constructed on a radius, the Curb Ramp length is measured on the inside radius along the back of the walkway.
Section B is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”
Section C is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”

F-40.14
The one instance of “2.0% MAX.” is replaced with “2.1% MAX.”
Note 7 is replaced with the following:

7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement. When a ramp is constructed on a radius, the Curb Ramp length is measured on the inside radius along the back of the walkway.
Section A is amended as follows:
Delete: "15' – 0" MAX. (TYP.)"
Section C is amended as follows:
Delete: "15' – 0" MAX. (TYP.)"

F-40.15
The one instance of "2.0% MAX." is replaced with "2.1% MAX."
Note 7 is replaced with the following:
7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement.
Section A is amended as follows:
Delete: "15' – 0" MAX. (TYP.)"

F-40.16
The one instance of "2.0% MAX." is replaced with "2.1% MAX."
Note 8 is replaced with the following:
7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement.
Section A is amended as follows:
Delete: "15' – 0" MAX. (TYP.)"
Section B is amended as follows:
Delete: "15' – 0" MAX. (TYP.)"

F-80.10
The one instance of "2.0% MAX." is replaced with "2.1% MAX."
Note 6 is replaced with the following:
The running slope of the Pedestrian Ramp shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk.
Section A is amended as follows:
Delete: "15" Max."

J-10.10
Sheet 4 of 6, "Foundation Size Reference Table", PAD WIDTH column, Type 33xD=6' – 3" is revised to read: 7' – 3". Type 342LX / NEMA P44=5' – 10" is revised to read: 6' – 10"
Sheet 5 of 6, Plan View, "FOR EXAMPLE PAD SHOWN HERE:, "first bullet" item, "-SPACE BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6" (IN)" IS REVISED TO READ: "SPACE BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL STEEL) AND 33x CABINET IS 6" (IN) (CHANNEL STEEL ADDS ABOUT 5" (IN)"

J-10.16
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.17
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.18
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-20.01
STANDARD DIMENSIONS AND REFERENCES table, TYPE FB, Standard Height column – "15'-0" "is revised to read; "14'-0" "

J-20.10
DELETED

J-20.11
DELETED

J-20.26
Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton post."
Add General Note 2, to read: "Signs shown are for locations with pedestrian signal displays (Accessible Pedestrian Signals/APS). Accessible information device (AID) pushbuttons signs not shown."
Revise View Titles (Both Sheets) to read: "ACCESSIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY"

J-20.16
View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10
Sheet 1, Anchor Bolt Template, callout; "9" (IN) BOLT CIRCLE" is revised to read: "9" (IN) DIA.BOLT CIRCLE"
Base Plate Detail, callout; "3/4" (IN) STEEL PLATE WITH HOLE = POLE BASE + 1/6" (IN)" IS REVISED TO READ; "3/4" (IN) STEEL PLATE WITH HOLE = POLE BASE + 1/16" (IN)"
Flat Foundation Detail – Elevation, 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"
Flat Foundation Detail – Elevation, dimension; 4' – 0" is revised to read; "4' – 0" ROUND OR 3' – 0" SQUARE"

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
On both elevation views, the overall standard height dimension "15'-0" " is revised to read; "14'-0" "

J-28.30
General Note 13 – "See Standard Plans C-8b and C-85.14 for steel light standards on traffic barrier" is revised to read; "See Standard Plan C-85.15 for steel light standards on traffic 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-40.36
Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-40.37
Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-50.15
Sheet 1, SECTION A, the call out "LOOP LEAD-IN WIRES, TWISTED PAIRS ~ MAX. 3 PAIRS" is revised to read "LOOP LEAD-IN WIRES, TWISTED PAIRS ~ MAX. 6 PAIRS"

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-75.55
Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20.

L-5.10
Add new general Note 9 on sheet 1 – "9. The top of wall in Section A on Sheet 1 shall be located as follows: 1) flush with the finished grade when placed within the deflection distance of the long span guardrail system (Std. Plan C-20.40), 2) Two inches maximum above finished grade when placed behind a box culvert guardrail steel post system (Std. Plan C-20.41 or C-20.43), 3) Six inches minimum for all other applications. The bottom rail shall be located at mid height between the top rail and the top of structure."

M-20.30
Wide Dotted Lane Line Detail, reference below title, (SEE NOTE 6) is revised to read: (SEE NOTE 5)

M-40.10
Guide Post Type ~ Reflective Sheeting Applications Table, remove reference - "(SEE NOTE 5)"

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-10.20-00 ..... 10/5/07
A-10.30-00 ..... 10/5/07
A-20.10-00 ..... 8/31/07
A-30.10-00 ..... 11/8/07
A-30.30-01 ..... 6/16/11
A-30.35-00 .....10/12/07
A-40.00-01 .....7/6/22
A-40.10-04 .....7/31/19
A-40.15-00 .....8/11/09
A-40.20-04 .....1/18/17
A-40.50-03 ..... 9/12/23
A-50.10-02 .....7/18/24
A-50.40-01 .....8/17/21
A-60.10-03 .....12/23/14
A-60.20-03 .....12/23/14
A-60.30-01 .....6/28/18
A-60.40-00 .....8/31/07

B-5.20-03..... 9/9/20
B-5.40-02..... 1/26/17
B-5.60-02..... 1/26/17
B-10.20-03..... 8/23/23
B-10.40-02..... 8/17/21
B-10.70-03..... 8/23/23
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-25.60-03..... 8/23/23
B-30.05-00..... 9/9/20
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-30.50-03 .....2/27/18
B-30.60-00 .....9/9/20
B-30.40-03 .....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-35.40-01 .....8/23/23
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-55.20-03 .....8/17/21
B-60.20-02 .....9/9/20
B-60.40-01 .....2/27/18
B-65.20-01 .....4/26/12
B-65.40-00 .....6/1/06
B-70.20-01 .....3/15/22
B-75.20-03 .....8/17/21
B-75.50-02 .....3/15/22
B-70.60-01 ..... 1/26/17
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-95.20-02 .....8/17/21
B-95.40-01 .....6/28/18

C-1 ..... 9/8/22
C-1b 10/12/23
C-1d 10/31/03
C-6a 9/8/22
C-7 ..... 9/8/22
C-7a 9/8/22
C-20.10-09..... 10/12/23
C-20.14-05..... 9/8/22
C-20.15-03..... 10/12/23
C-20.18-04..... 9/8/22
C-20.40-10..... 10/12/23
C-20.41-05..... 7/18/24
C-20.43-01..... 7/18/24
C-20.44-00..... 8/13/24
C-20.45-03..... 9/8/22
C-20.55-00..... 7/30/24
C-22.16-08..... 10/17/23
C-22.40-11..... 7/21/24
C-22.45-07..... 7/21/24
C-23.70-01 .....10/16/23
C.24.10-05 .....7/21/24
C-24.15-00 .....3/15/22
C-25.20-07 .....8/20/21
C-25.22-06 .....8/20/21
C-25.26-05 .....8/20/21
C-25.30-01 .....8/20/21
C-25.32-00 .....7/29/24
C-25.80-05 .....8/12/19
C-60.10-04 .....7/21/24
C-60.15-01 .....7/21/24
C-60.20-01 .....9/8/22
C-60.30-02 .....7/21/24
C-60.40-01 .....7/21/24
C-60.45-01 .....7/21/24
C-60.50-01 .....7/21/24
C-60.60-01 .....7/21/24
C-60.70-01 .....9/8/22
C-60.80-02 .....7/21/24
C-70.10-04 .....10/16/23
C-70.15-01 .....7/21/24
C-75.10-02 .....9/16/20
C-75.20-03 .....8/20/21
C-75.30-03 .....8/20/21
C-80.10-03 ..... 10/16/23
C-80.20-01 ..... 6/11/14
C-80.30-02 .....8/20/21
C-80.40-01 ..... 6/11/14
C-85.10-00 .....4/8/12
C-85.11-01 .....9/16/20
C-85.15-03 ..... 10/17/23
C-85-18-03.....9/8/22
C-81.10-00 .....9/12/23
C-81.15-00 .....9/12/23

D-2.36-03 ..... 6/11/14
D-2.46-02 ..... 8/13/21
D-2.84-00 ..... 11/10/05
D-2.92-01 ..... 4/26/22
D-3.09-00 ..... 5/17/12
D-3.11-03 .....6/11/14
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-10.25-01.....8/7/19
D-10.30-00.....7/8/08
D-10.35-00.....7/8/08
D-10.40-01.....12/2/08
D-10.45-01.....12/2/08

D-3.10-01 ..... 5/29/13

E-1 ..... 2/21/07
E-2 ..... 5/29/98

F-10.12-04 ..... 9/24/20
F-10.16-00 ..... 12/20/06
F-10.18-04 ..... 6/28/24
F-10.40-04 ..... 9/24/20
F-10.42-00 ..... 1/23/07

G-10.10-00 ..... 9/20/07
G-20.10-03 ..... 8/20/21
G-22.10-04 ..... 6/28/18
G-24.10-00 ..... 11/8/07
G-24.20-01 ..... 2/7/12
G-24.30-02 ..... 6/28/18
G-24.40-07 ..... 6/28/18

H-10.10-01 ..... 6/2/24
H-10.11-00..... 6/2/24
H-10.15-01 ..... 6/2/24
H-10.16-00 ..... 6/2/24

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

J-05.50-00..... 8/30/22
J-10 ..... 7/18/97
J-10.10-04..... 9/16/20
J-10.12-00..... 9/16/20
J-10.14-00..... 9/16/20
J-10.15-01..... 6/11/14
J-10.16-02..... 8/18/21
J-10.17-02..... 8/18/21
J-10.18-02..... 8/18/21
J-10.20-04..... 8/18/21
J-10.21-02..... 8/18/21
J-10.22-03..... 10/4/23
J-10.25-01..... 6/21/24
J-10.26-00..... .8/30/22
J-12.15-00..... 6/28/18
J-12.16-00..... 6/28/18
J-15.10-01..... 6/11/14
J-15.15-02..... 7/10/15
J-20.01-01..... .6/21/24
J-20.05-00..... 6/21/24
J-20.10-05..... 10/4/23
J-20.11-03..... 7/31/19
J-20.15-04..... 6/21/24
J-20.16-02..... 6/30/14
J-20.20-02..... 5/20/13

D-10.20-01 .....8/7/19

E-4.....8/27/03
E-4a.....8/27/03

F-10.62-02.....4/22/14
F-10.64-03.....4/22/14
F-30.10-04.....9/25/20
F-40.12-03.....6/29/16
F-40.14-03.....6/29/16

G-24.50-05 .....8/7/19
G-24.60-05 .....6/28/18
G-25.10-05 .....9/16/20
G-26.10-00 .....7/31/19
G-30.10-04 .....6/23/15
G-50.10-03 .....6/28/18

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

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

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-28.01-00 .....8/30/22
J-28.10-02 .....8/7/19
J-28.22-00 .....8/07/07
J-28.24-02 .....9/16/20
J-28.26-01 .....12/02/08
J-28.30-04 .....6/18/24
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-28.60-03 .....8/27/21
J-28.70-04 .....8/30/22
J-29.10-02 .....8/26/22
J-29.15-01 .....7/21/16
J-29.16-02 .....7/21/16
J-30.10-01 .....8/26/22
J-40.01-00 .....8/30/22
J-40.05-00 .....7/21/16
J-40.10-04 .....4/28/16

D-20.10-00.....10/9/23

E-20.10-00 .....9/12/23
E-20.20-00 .....10/4/23

F-40.15-04 .....9/25/20
F-40.16-03 .....6/29/16
F-45.10-05 .....6/4/24
F-80.10-04 .....7/15/16

G-90.10-03..... 7/11/17
G-90.20-05..... 7/11/17
G-90.30-04..... 7/11/17
G-95.10-02.....6/28/18
G-95.20-03.....6/28/18
G-95.30-03.....6/28/18

H-70.10-02.....8/17/21
H-70.20-02.....8/17/21

I-40.20-00 .....9/20/07
I-50.20-02 .....7/6/22
I-60.10-01 .....6/10/13
I-60.20-01 .....6/10/13
I-80.10-02 .....7/15/16

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-50.13-01 .....8/30/22
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-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-75.50-00 .....8/30/22
J-75.55-00 .....8/30/22
J-80.05-00 .....8/30/22
J-80.10-01 .....8/18/21
J-80.12-00 .....8/18/21

J-20.26-01 ..... 7/12/12
J-21.10-05 ..... 6/21/24
J-21.15-01 ..... 6/10/13
J-21.16-02 ..... 6/21/24
J-21.17-01 ..... 6/10/13
J-21.20-01 ..... 6/10/13
J-22.15-03 ..... 6/21/24
J-22.16-03 ..... 7/10/15
J-22.17-00 ..... 6/21/24

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-80.15-00 ..... 6/28/18
J-81.10-02 ..... 8/18/21
J-81.12-00 ..... 9/3/21
J-84.05-00 ..... 8/30/22
J-86.10-00 ..... 6/28/18
J-90.10-03 ..... 6/28/18
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-80.10-02 ..... 9/25/20

K-80.32-00 ..... 8/17/21
K-80.34-00 ..... 8/17/21

K-80.35-01 ..... 9/16/20
K-80.37-01 ..... 9/16/20

L-5.10-02 ..... 6/5/24
L-5.15-00 ..... 9/19/22
L-10.10-02 ..... 6/21/12

L-20.10-03 ..... 7/14/15
L-30.10-02 ..... 6/11/14
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-1.20-04 ..... 9/25/20
M-1.40-03 ..... 9/25/20
M-1.60-03 ..... 9/25/20
M-1.80-03 ..... 6/3/11
M-2.20-03 ..... 7/10/15
M-2.21-00 ..... 7/10/15
M-3.10-04 ..... 9/25/20
M-3.20-04 ..... 8/2/22
M-3.30-04 ..... 9/25/20
M-3.40-04 ..... 9/25/20
M-3.50-03 ..... 9/25/20
M-5.10-03 ..... 9/25/20
M-7.50-01 ..... 1/30/07
M-9.50-02 ..... 6/24/14

M-9.60-00 ..... 2/10/09
M-11.10-04 ..... 8/2/22
M-12.10-04 ..... 6/28/24
M-15.10-02 ..... 7/17/23
M-17.10-02 ..... 7/3/08
M-20.10-04 ..... 8/2/22
M-20.20-02 ..... 4/20/15
M-20.30-05 ..... 6/28/24
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-40.10-04 ..... 10/17/23
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-60.20-03 ..... 8/17/21
M-65.10-03 ..... 8/17/21
M-80.10-01 ..... 6/3/11
M-80.20-00 ..... 6/10/08
M-80.30-00 ..... 6/10/08

CONTRACT FORMS

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CONTRACT
FOR:
THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PROJECT
FERNDALE, WASHINGTON

This Contract, made and entered into this ____ day of _____, 20___ by and between the City of Ferndale, hereinafter called the "Owner" and _____, hereinafter called the "Contractor".

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this Contract, the parties hereto covenant and agree as follows:

1. The Contractor shall do all of the work and furnish all of the labor, materials, tools and equipment for the construction of the improvements and shall perform any changes in the work, all in full compliance with the contract documents entitled "THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PROJECT", WA2010-01**,** Ferndale, Washington.

   The "Bid Proposal", "Specifications and Conditions", "Contract Forms", and the "Plans" sections contained in said contract documents are hereby referred to and by reference made a part hereof.

2. The Owner hereby promises and agrees with the Contractor to employ, and does employ the Contractor to furnish the labor, materials, tools and equipment, and to and cause to be done the above-described work, and to complete and finish the same in accordance with the said contract documents and the terms and conditions herein contained, and hereby contracts to pay for the same, according to the said contract documents, including the schedule of estimated quantities, and unit and lump sum prices in the Bid Proposal, the approximate sum of _____, the total amount of bid, subject to the actual quantity of work performed, at the time and in the manner and upon the conditions provided for in this contract.

3. The Contractor for himself, and for his agents, successors, assigns, subcontractors and/or employees, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.

4. The Owner hereby appoints and the Contractor hereby accepts Reichhardt & Ebe Engineering, Inc., hereinafter referred to as the Engineer, as the City's representative for the purpose of administering the provisions of this Contract, including the Owner's right to receive and act on all reports and documents related to this

Contract, to request and receive additional information from the Contractor, to assess the general performance of the Contractor under this Contract, to determine if the contracted services are being performed in accordance with Federal, State or local laws, and to administer any other right granted to the Owner under this Contract. The Owner expressly reserves the right to terminate this Contract as provided in the contract documents, and also expressly the reserves the right to commence civil action for the enforcement of this contract.

5. This Contract contains terms and conditions agreed upon by the parties. The parties agree that there are no other understandings, oral or otherwise, regarding the subject matter of this Contract.

6. The Contractor agrees to comply with all applicable Federal, State, City or municipal standards for the licensing, certification, operation of facilities and programs, and accreditation and licensing of individuals.

7. The Contractor shall not assign or subcontract any portion of the work provided for under the terms of this Contract without obtaining prior written approval of the Engineer. All terms and conditions of this Contract shall apply to any approved subcontract or assignment related to this Contract.

8. The parties intend that an independent Contractor-Owner relationship will be created by this Contract. The Owner is interested only in the results to be achieved, the implementation of the work will lie solely with the Contractor. The Contractor will be solely and entirely responsible for its acts and for the acts of its agents, employees, servants, subcontractors, or otherwise during the performance of this Contract. In the performance of the work herein contemplated, the Contractor is an independent Contractor with regard to the performance of the details of the work; however, the components of and the results of the work contemplated herein must meet the approval of the Engineer and shall be subject to the Engineer's general rights of inspection and review to secure the satisfactory completion thereof.

9. The Contractor agrees and covenants to indemnify, defend, and save harmless, the Owner and the City of Ferndale and those persons who were, now are, or shall be duly elected or appointed officials or members of employees thereof, hereinafter referred to as the "Owner" or "City" against and from any loss, damage, costs, charge, expense, liability, claims, demands or judgments, of whatsoever kind or nature, whether to persons or to property, arising wholly or partially out of any act, action, neglect, omission, or default on the part of the Contractor, his agents, successors, assignees, subcontractors and/or employees, except only such injury or damage as shall have been caused by or resulted from the sole negligence of the City. In case any suit or cause of action shall be brought against the Owner or the City on account of any act, action, neglect, omission, or default on the part of the Contractor, his agents, successors, assignees, subcontractors and/or employees the Contractor hereby agrees and covenants to assume the defense thereof and to pay

any and all costs, charges, attorney's fees and other expenses and any and all judgments that may be incurred or obtained against the City.

In the event the Owner is required to institute legal action and/or participate in the legal action to enforce this Indemnification and Hold Harmless Clause, the Contractor agrees to pay the Owner or City's legal fees, costs and disbursements incurred in establishing the right to indemnification. If the claim, suit, or action for injuries, death, or damages as provided for in the preceding paragraphs of this specification is caused by or results from the concurrent negligence of (a) the indemnitee or the indemnitee's agents or employees and (b) the indemnitor or the indemnitor's agents for employees the indemnity provisions provided for in the preceding paragraphs of this specification shall be valid and enforceable only to the extent of the indemnitor's negligence.

Contractor hereby specifically and expressly waives any immunity under Industrial Insurance, Title 51 RCW and acknowledges that this waiver was mutually negotiated by the parties herein. In the event of litigation between the parties to enforce the rights under this paragraph, reasonable attorney's fees shall be allowed to the prevailing party.

10. This Contract has been and shall be construed as having been made and delivered within the State of Washington and it is mutually understood and agreed by each party hereto that this Contract shall be governed by the laws of the State of Washington, both as to interpretation and performance. Any action in law, suit and equity or judicial proceedings for the enforcement of this contract, or any provisions thereof, shall be instituted and maintained in the courts of competent jurisdiction located in City of Ferndale, Washington.

11. The failure of the Owner to insist upon strict performance of any of the covenants and agreements of this Contract or to exercise any option herein conferred in any one or more instances shall not be construed to be a waiver or relinquishment of any such, or any other covenants or agreements, but the same shall be and remain in full force and effect.

12. It is understood and agreed by the parties hereto that if any part of this agreement is determined to be illegal, the validity of the remaining portions shall be construed as if the agreement did not contain the particular illegal part.

13. No change or addition to this Contract shall be valid or binding upon either party unless such change or addition shall be in writing, executed by both parties.

14. In the event that funding from State, Federal, or other sources is withdrawn, reduced, or limited in any way after the effective date of this Agreement, and prior to its normal completion, the Owner may summarily terminate this Agreement as to the funds withdrawn, reduced, or limited notwithstanding any other termination provisions of this Agreement. If the level of funding withdrawn, reduced or limited

is so great that the Owner deems that the continuation of the programs covered by this Agreement is no longer in the best interest of the City, the Owner may summarily terminate this Agreement in whole notwithstanding any other termination of this Agreement. Termination under this section shall be effective upon receipt of written notice as specified herein.

IN WITNESS WHEREOF, the Contractor has executed this instrument, on the day and year first below written and the Owner has caused this instrument to be executed by and in the name of the said County, the day and year first above written.

Executed by the Contractor this _____day of _____, 20___.

CITY OF FERNDALE:

By: _____
City Administrator / Mayor

STATE OF WASHINGTON)
) ss.
COUNTY OF WHATCOM)

On this _____ day of _____, 20___, before me personally appeared _____to me personally known to be the person described in and who executed the above instrument and who acknowledged to me the act of signing thereof.

NOTARY PUBLIC, in and for the
State of Washington, residing at:

My Commission Expires:_____

CONTRACTOR:

By: _____

Title: _____

STATE OF WASHINGTON)
) ss.
COUNTY OF WHATCOM)

On this _____ day of _____, 20___, before me personally appeared_____ to me personally known to be the person described in and who executed the above instrument and who acknowledged to me the act of signing thereof.

NOTARY PUBLIC, in and for the
State of Washington, residing at:

My Commission Expires:_____

PERFORMANCE BOND
to the
City of Ferndale

KNOW ALL MEN BY THESE PRESENTS, That we_____
_____ the Contractor named in the Contract hereinafter referred to as PRINCIPAL, and_____as SURETY, are jointly and severally held and firmly bound to the City of Ferndale, hereinafter referred to as OWNER named in said Contract THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PROJECT, WA2010-01**,** Ferndale, Washington, for the penal sum of, _____DOLLARS ($_____), lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, assigns, administrators and successors jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that Whereas, the Principal entered into a contract with the Owner, dated the _____day of _____, 20___, for such construction work with the City of Ferndale, Washington.

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform all of the provisions and fulfill all of the undertakings, covenants, terms, conditions and agreements of said contract during the period of the original contract and any extensions thereof that may be granted by the Owner, with or without notices to the surety; and during the life of any guaranty required under the contract; and shall also well and truly perform and fulfill all of the undertakings, covenants, terms, conditions and agreements of any and all duly authorized modifications of said contract that may hereafter be made; notice of which modifications to the surety being hereby waived, shall indemnify and save harmless owner from all cost and damage by reason of the principal's default of failure to do so, and shall pay the State of Washington sales and use taxes, and amounts due said state pursuant to Titles 50 and 51 of the Revised Code of Washington then this obligation to be void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the above bonded parties have executed this instrument under their separate seals this _____ day of _____, 20___, the name and corporate seal of each corporate party hereto affixed, and these presents duly signed by its undersigned representatives pursuant to authority of its governing body.

_____
Corporate Seal: PRINCIPAL

ATTEST: (If Corporation)

By:_____

Title:_____

_____
SURETY

Corporate Seal:

By:_____

Title:_____

PAYMENT BOND
to the
City of Ferndale

KNOW ALL MENT BY THESE PRESENTS: that

_____
(Name of Contractor)

_____
(Address of Contractor)

a _____ , hereinafter called Principal,
(Corporation, Partnership or Individual)

and_____
(Name of Surety)

_____
(Address of surety)

hereinafter called **SURETY**, are held and firmly bound unto_____

_____
(Name of Owner)

_____
(Address of Owner)

hereinafter called **OWNER**, in the penal sum of _____Dollars, $(_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the **OWNER**, dated the _____day of _____20___, a copy of which is hereto attached and made a part hereof for the construction of:

_____

_____

_____

_____

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, **SUBCONTRACTORS**, and corporations furnishing materials for or performing labor in the prosecution of the **WORK** provided for in such contract, and any authorized extension or modification thereof including all amounts due for materials, lubricants, oil, gasoline, coal, and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such **WORK,** and all Insurance premiums on said **WORK,** and for all labor, performed in such **WORK** whether by **SUBCONTRACTOR** or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said **SURETY** for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the **WORK** to be performed thereunder or the **SPECIFICATIONS** accompanying the same shall in any wise affect its obligation on this **BOND,** and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the **WORK** or to the **SPECIFICATIONS.**

PROVIDED, FURTHER, that no final settlement between the **OWNER** and the **CONTRACTOR** shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in_____counterparts, each
one of which (number)
shall be deemed an original, this the _____day of _____

ATTEST:

_____
Principal

_____
(Principal) Secretary

(**SEAL)** **By** _____(s)

_____
(Address)

_____

_____
Witness as to Principal

_____
(Address)

_____ _____
(Surety)

ATTEST: **By** _____
(Attorney –in-Fact)

_____ _____
Witness as to Surety (Address

_____ _____
(Address)

NOTE: Date of **BOND** must not be prior to date of Contract.
If **CONTRACTOR** is Partnership, all partners should execute **BOND.**

IMPORTANT: Surety companies executing **BONDS** must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the **PROJECT** is located.

CITY OF FERNDALE
RETAINAGE INVESTMENT OPTION

CONTRACTOR: _____

PROJECT NAME: _____

DATE: _____

Pursuant to Chapter 60.28 RCW, you may choose how your retainage under this contract will be held and invested. Please complete and sign this form indicating your preference. If you fail to do so, the City of Ferndale (City) will hold your retain age as described in "Current Expense", option 1 below.

_____1. Current Expense: The City will retain your money in its Current Expense Fund Account until thirty days following final acceptance of the improvement or work as completed. You will not receive interest earned on this money.

_____2. Interest Bearing Account: The City will deposit retainage checks in an interest-bearing account in a bank, mutual savings bank, or savings and loan association, not subject to withdrawal until after the final acceptance of the improvement or work as completed or until agreed to by both parties. Interest on the account will be paid to you.

BONDS AND SECURITIES ACCEPTABLE BY THE CITY OF FERNDALE:

1. Bills, certificates, notes or bonds of the United States.
2. Other obligations of the United States or its agencies.
3. Indebtedness of the Federal national Mortgage Association.
4. Time Deposits in commercial banks.

Designate below the type of investment selected:

_____
_____
_____

_____3. Bond-in-Lieu: With the consent of the City, the contractor may submit a bond for all or any portion of the amount of funds retained by the City in a form acceptable to the City and from a bonding company meeting standards established by the City, if any. Unless otherwise indicated, the contractor elects to submit a bond for the entire 5% retainage amount. Such bond and any proceeds there from shall be made subject to all claims and liens and in the same manner and priority as set forth for retained percentages in Chapter 60.28 RCW. Whenever the City accepts a bond-in-lieu of retained funds from a contractor, the contractor shall accept like bonds from any subcontractors or suppliers from which the contractor has retained funds. The contractor shall then release the funds retained from

the subcontractor or supplier, to the subcontractor or supplier, within thirty days of the contractor's receipt of the retained funds from the City.

Retainage is normally released 30 - 45 days after final acceptance of work by the City or following receipt Employment Security / Department of Revenue clearance, whichever takes longer.

_____

(Contractor's Signature) Date

Title: _____

APPENDICES

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APPENDIX A
STATE PREVAILING WAGE RATES
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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: 5/12/2025

Whatcom County

Trade	Job Classification	Wage	Holiday	Overtime	Note
Asbestos Abatement Workers	Journey Level	$63.87	**5D**	**1H**	
Boilermakers	Journey Level	$80.89	**5N**	**1C**	
Brick Mason	Journey Level	$71.82	**7E**	**1N**	
Brick Mason	Pointer-Caulker-Cleaner	$71.82	**7E**	**1N**	
Building Service Employees	Janitor	$16.66		**1**	
Building Service Employees	Shampooer	$16.66		**1**	
Building Service Employees	Waxer	$16.66		**1**	

Building Service Employees	Window Cleaner	$16.66		1	
Cabinet Makers (In Shop)	Journey Level	$24.89		1	
Carpenters	Acoustical Worker	$78.96	15J	11U	
Carpenters	Bridge Dock and Wharf Carpenter	$80.50	15J	11U	9L
Carpenters	Floor Layer & Floor Finisher	$78.96	15J	11U	
Carpenters	General Carpenter	$78.96	15J	11U	
Carpenters	Scaffold Erector	$78.96	15J	11U	
Cement Masons	Application of all Composition Mastic	$77.30	15J	4U	
Cement Masons	Application of all Epoxy Material	$76.78	15J	4U	
Cement Masons	Application of all Plastic Material	$77.30	15J	4U	
Cement Masons	Application of Sealing Compound	$76.78	15J	4U	
Cement Masons	Application of Underlayment	$77.30	15J	4U	
Cement Masons	Building General	$76.78	15J	4U	
Cement Masons	Composition or Kalman Floors	$77.30	15J	4U	

Cement Masons	Concrete Paving	$76.78	**15J**	**4U**
Cement Masons	Curb & Gutter Machine	$77.30	**15J**	**4U**
Cement Masons	Curb & Gutter, Sidewalks	$76.78	**15J**	**4U**
Cement Masons	Curing Concrete	$76.78	**15J**	**4U**
Cement Masons	Finish Colored Concrete	$77.30	**15J**	**4U**
Cement Masons	Floor Grinding	$77.30	**15J**	**4U**
Cement Masons	Floor Grinding/Polisher	$76.78	**15J**	**4U**
Cement Masons	Green Concrete Saw, self-powered	$77.30	**15J**	**4U**
Cement Masons	Grouting of all Plates	$76.78	**15J**	**4U**
Cement Masons	Grouting of all Tilt-up Panels	$76.78	**15J**	**4U**
Cement Masons	Gunite Nozzleman	$77.30	**15J**	**4U**
Cement Masons	Hand Powered Grinder	$77.30	**15J**	**4U**
Cement Masons	Journey Level	$76.78	**15J**	**4U**
Cement Masons	Patching Concrete	$76.78	**15J**	**4U**
Cement Masons	Pneumatic Power Tools	$77.30	**15J**	**4U**
Cement Masons	Power Chipping & Brushing	$77.30	**15J**	**4U**

Cement Masons	Sand Blasting Architectural Finish	$77.30	**15J**	**4U**	
Cement Masons	Screed & Rodding Machine	$77.30	**15J**	**4U**	
Cement Masons	Spackling or Skim Coat Concrete	$76.78	**15J**	**4U**	
Cement Masons	Troweling Machine Operator	$77.30	**15J**	**4U**	
Cement Masons	Troweling Machine Operator on Colored Slabs	$77.30	**15J**	**4U**	
Cement Masons	Tunnel Workers	$77.30	**15J**	**4U**	
Divers & Tenders	Bell/Vehicle/Submersible Operator (not under pressure)	$156.25	**15J**	**11T**	**9I**
Divers & Tenders	Dive Supervisor	$157.75	**15J**	**11T**	**9I**
Divers & Tenders	Diver	$156.25	**15J**	**11T**	**9I**
Divers & Tenders	Diver Tender	$86.86	**15J**	**11T**	**9I**
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	$109.76	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 31.01-44.00 PSI	$118.99	**15J**	**11U**	

Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	$128.22	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	$137.45	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	$146.67	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	$155.90	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	$165.13	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	$174.36	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	$183.59	**15J**	**11U**	
Divers & Tenders	Lead Diver (Dive Master)	$101.32	**15J**	**11T**	**9I**
Divers & Tenders	Manifold Operator (Life Support Technician)	$86.86	**15J**	**11T**	**9I**
Divers & Tenders	Remote Operated Vehicle Operator/Technician	$86.86	**15J**	**11T**	**9I**

Divers & Tenders	Remote Operated Vehicle Operator/Technician	$86.86	**15J**	**11T**	**9I**
Divers & Tenders	Remote Operated Vehicle Tender	$80.55	**15J**	**11T**	**9I**
Divers & Tenders	Stand-by Diver	$96.32	**15J**	**11T**	**9I**
Dredge Workers	Assistant Engineer	$85.37	**5D**	**3F**	
Dredge Workers	Assistant Mate (Deckhand)	$84.71	**5D**	**3F**	
Dredge Workers	Boatmen	$85.37	**5D**	**3F**	
Dredge Workers	Engineer Welder	$87.02	**5D**	**3F**	
Dredge Workers	Leverman, Hydraulic	$88.77	**5D**	**3F**	
Dredge Workers	Mates	$85.37	**5D**	**3F**	
Dredge Workers	Oiler	$84.71	**5D**	**3F**	
Drywall Applicator	Journey Level	$78.76	**15O**	**11S**	
Drywall Tapers	Journey Level	$78.76	**15O**	**11S**	
Electrical Fixture Maintenance Workers	Journey Level	$16.66		**1**	
Electricians - Inside	Cable Splicer	$95.85	**7H**	**1E**	
Electricians - Inside	Construction Stock Person	$46.03	**7H**	**1D**	

Electricians - Inside	Journey Level	$89.75	**7H**	**1E**	
Electricians - Motor Shop	Craftsman	$16.66		**1**	
Electricians - Motor Shop	Journey Level	$16.66		**1**	
Electricians - Powerline Construction	Cable Splicer	$102.42	**5A**	**4D**	
Electricians - Powerline Construction	Certified Line Welder	$93.99	**5A**	**4D**	
Electricians - Powerline Construction	Groundperson	$59.30	**5A**	**4D**	
Electricians - Powerline Construction	Heavy Line Equipment Operator	$93.99	**5A**	**4D**	
Electricians - Powerline Construction	Journey Level Lineperson	$93.99	**5A**	**4D**	
Electricians - Powerline Construction	Line Equipment Operator	$80.96	**5A**	**4D**	
Electricians - Powerline Construction	Meter Installer	$59.30	**5A**	**4D**	**8W**
Electricians - Powerline Construction	Pole Sprayer	$93.99	**5A**	**4D**	
Electricians - Powerline Construction	Powderperson	$69.84	**5A**	**4D**	
Electronic Technicians	Electronic Technicians Journey Level	$58.51	**5B**	**1B**	

Elevator Constructors	Mechanic	$115.14	**7D**	**4A**	
Elevator Constructors	Mechanic In Charge	$124.53	**7D**	**4A**	
Fabricated Precast Concrete Products	Journey Level	$16.66		**1**	
Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$16.66		**1**	
Fence Erectors	Fence Erector	$54.65	**15J**	**11P**	**8Y**
Fence Erectors	Fence Laborer	$54.65	**15J**	**11P**	**8Y**
Flaggers	Journey Level	$54.65	**15J**	**11P**	**8Y**
Glaziers	Journey Level	$82.16	**7L**	**1Y**	
Heat & Frost Insulators And Asbestos Workers	Journey Level	$91.81	**15H**	**11C**	
Heating Equipment Mechanics	Mechanic	$99.46	**7F**	**1E**	
Hod Carriers & Mason Tenders	Journey Level	$67.38	**15J**	**11P**	**8Y**
Industrial Power Vacuum Cleaner	Journey Level	$16.66		**1**	
Inland Boatmen	Boat Operator	$71.28	**5B**	**1K**	
Inland Boatmen	Cook	$69.70	**5B**	**1K**	
Inland Boatmen	Deckhand	$70.00	**5B**	**1K**	

Inland Boatmen	Deckhand Engineer	$69.55	**5B**	**1K**
Inland Boatmen	Launch Operator	$71.23	**5B**	**1K**
Inland Boatmen	Mate	$89.12	**5B**	**1K**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator	$51.27	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Foamer Operator	$51.27	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$51.27	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$49.20	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$42.99	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	TV Truck Operator	$46.10	**15M**	**11O**
Insulation Applicators	Journey Level	$78.96	**15J**	**11U**
Ironworkers	Journeyman	$90.82	**15K**	**11N**

Laborers	Air, Gas Or Electric Vibrating Screed	$63.87	**15J**	**11P**	**8Y**
Laborers	Airtrac Drill Operator	$65.75	**15J**	**11P**	**8Y**
Laborers	Ballast Regular Machine	$63.87	**15J**	**11P**	**8Y**
Laborers	Batch Weighman	$54.65	**15J**	**11P**	**8Y**
Laborers	Brick Pavers	$63.87	**15J**	**11P**	**8Y**
Laborers	Brush Cutter	$63.87	**15J**	**11P**	**8Y**
Laborers	Brush Hog Feeder	$63.87	**15J**	**11P**	**8Y**
Laborers	Burner	$63.87	**15J**	**11P**	**8Y**
Laborers	Caisson Worker	$65.75	**15J**	**11P**	**8Y**
Laborers	Carpenter Tender	$63.87	**15J**	**11P**	**8Y**
Laborers	Cement Dumper-paving	$64.98	**15J**	**11P**	**8Y**
Laborers	Cement Finisher Tender	$63.87	**15J**	**11P**	**8Y**
Laborers	Change House Or Dry Shack	$63.87	**15J**	**11P**	**8Y**
Laborers	Chipping Gun (30 Lbs. And Over)	$64.98	**15J**	**11P**	**8Y**
Laborers	Chipping Gun (Under 30 Lbs.)	$63.87	**15J**	**11P**	**8Y**
Laborers	Choker Setter	$63.87	**15J**	**11P**	**8Y**

Laborers	Chuck Tender	$63.87	**15J**	**11P**	**8Y**
Laborers	Clary Power Spreader	$64.98	**15J**	**11P**	**8Y**
Laborers	Clean-up Laborer	$63.87	**15J**	**11P**	**8Y**
Laborers	Concrete Dumper/Chute Operator	$64.98	**15J**	**11P**	**8Y**
Laborers	Concrete Form Stripper	$63.87	**15J**	**11P**	**8Y**
Laborers	Concrete Placement Crew	$64.98	**15J**	**11P**	**8Y**
Laborers	Concrete Saw Operator/Core Driller	$64.98	**15J**	**11P**	**8Y**
Laborers	Crusher Feeder	$54.65	**15J**	**11P**	**8Y**
Laborers	Curing Laborer	$63.87	**15J**	**11P**	**8Y**
Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	$63.87	**15J**	**11P**	**8Y**
Laborers	Ditch Digger	$63.87	**15J**	**11P**	**8Y**
Laborers	Diver	$65.75	**15J**	**11P**	**8Y**
Laborers	Drill Operator (Hydraulic, Diamond)	$64.98	**15J**	**11P**	**8Y**
Laborers	Dry Stack Walls	$63.87	**15J**	**11P**	**8Y**
Laborers	Dump Person	$63.87	**15J**	**11P**	**8Y**

Laborers	Epoxy Technician	$63.87	**15J**	**11P**	**8Y**
Laborers	Erosion Control Worker	$63.87	**15J**	**11P**	**8Y**
Laborers	Faller & Bucker Chain Saw	$64.98	**15J**	**11P**	**8Y**
Laborers	Fine Graders	$63.87	**15J**	**11P**	**8Y**
Laborers	Firewatch	$54.65	**15J**	**11P**	**8Y**
Laborers	Form Setter	$64.98	**15J**	**11P**	**8Y**
Laborers	Gabian Basket Builders	$63.87	**15J**	**11P**	**8Y**
Laborers	General Laborer	$63.87	**15J**	**11P**	**8Y**
Laborers	Grade Checker & Transit Person	$67.38	**15J**	**11P**	**8Y**
Laborers	Grinders	$63.87	**15J**	**11P**	**8Y**
Laborers	Grout Machine Tender	$63.87	**15J**	**11P**	**8Y**
Laborers	Groutmen (Pressure) Including Post Tension Beams	$64.98	**15J**	**11P**	**8Y**
Laborers	Guardrail Erector	$63.87	**15J**	**11P**	**8Y**
Laborers	Hazardous Waste Worker (Level A)	$65.75	**15J**	**11P**	**8Y**
Laborers	Hazardous Waste Worker (Level B)	$64.98	**15J**	**11P**	**8Y**

Laborers	Hazardous Waste Worker (Level C)	$63.87	**15J**	**11P**	**8Y**
Laborers	High Scaler	$65.75	**15J**	**11P**	**8Y**
Laborers	Jackhammer	$64.98	**15J**	**11P**	**8Y**
Laborers	Laserbeam Operator	$64.98	**15J**	**11P**	**8Y**
Laborers	Maintenance Person	$63.87	**15J**	**11P**	**8Y**
Laborers	Manhole Builder-Mudman	$64.98	**15J**	**11P**	**8Y**
Laborers	Material Yard Person	$63.87	**15J**	**11P**	**8Y**
Laborers	Mold Abatement Worker	$63.87	**15J**	**11P**	**8Y**
Laborers	Motorman-Dinky Locomotive	$67.48	**15J**	**11P**	**8Y**
Laborers	nozzleman (concrete pump, green cutter when using combination of high pressure air & water on concrete & rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster)	$67.38	**15J**	**11P**	**8Y**
Laborers	Pavement Breaker	$64.98	**15J**	**11P**	**8Y**
Laborers	Pilot Car	$54.65	**15J**	**11P**	**8Y**
Laborers	Pipe Layer (Lead)	$67.38	**15J**	**11P**	**8Y**

Laborers	Pipe Layer/Tailor	$64.98	**15J**	**11P**	**8Y**
Laborers	Pipe Pot Tender	$64.98	**15J**	**11P**	**8Y**
Laborers	Pipe Reliner	$64.98	**15J**	**11P**	**8Y**
Laborers	Pipe Wrapper	$64.98	**15J**	**11P**	**8Y**
Laborers	Pot Tender	$63.87	**15J**	**11P**	**8Y**
Laborers	Powderman	$65.75	**15J**	**11P**	**8Y**
Laborers	Powderman's Helper	$63.87	**15J**	**11P**	**8Y**
Laborers	Power Jacks	$64.98	**15J**	**11P**	**8Y**
Laborers	Power Washer	$63.87	**15J**	**11P**	**8Y**
Laborers	Railroad Spike Puller - Power	$64.98	**15J**	**11P**	**8Y**
Laborers	Raker - Asphalt	$67.38	**15J**	**11P**	**8Y**
Laborers	Re-timberman	$65.75	**15J**	**11P**	**8Y**
Laborers	Remote Equipment Operator	$64.98	**15J**	**11P**	**8Y**
Laborers	Rigger/Signal Person	$64.98	**15J**	**11P**	**8Y**
Laborers	Rip Rap Person	$63.87	**15J**	**11P**	**8Y**
Laborers	Rivet Buster	$64.98	**15J**	**11P**	**8Y**

Laborers	Rodder	$64.98	**15J**	**11P**	**8Y**
Laborers	Scaffold Erector	$63.87	**15J**	**11P**	**8Y**
Laborers	Scale Person	$63.87	**15J**	**11P**	**8Y**
Laborers	Sloper (Over 20")	$64.98	**15J**	**11P**	**8Y**
Laborers	Sloper Sprayer	$63.87	**15J**	**11P**	**8Y**
Laborers	Spreader (Concrete)	$64.98	**15J**	**11P**	**8Y**
Laborers	Stake Hopper	$63.87	**15J**	**11P**	**8Y**
Laborers	Stock Piler	$63.87	**15J**	**11P**	**8Y**
Laborers	Swinging Stage/Boatswain Chair	$54.65	**15J**	**11P**	**8Y**
Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	$64.98	**15J**	**11P**	**8Y**
Laborers	Tamper (Multiple & Self-propelled)	$64.98	**15J**	**11P**	**8Y**
Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	$64.98	**15J**	**11P**	**8Y**
Laborers	Toolroom Person (at Jobsite)	$63.87	**15J**	**11P**	**8Y**
Laborers	Topper	$63.87	**15J**	**11P**	**8Y**
Laborers	Track Laborer	$63.87	**15J**	**11P**	**8Y**

Laborers	Track Liner (Power)	$64.98	**15J**	**11P**	**8Y**
Laborers	Traffic Control Laborer	$58.20	**15J**	**11P**	**9C**
Laborers	Traffic Control Supervisor	$61.47	**15J**	**11P**	**9C**
Laborers	Truck Spotter	$63.87	**15J**	**11P**	**8Y**
Laborers	Tugger Operator	$64.98	**15J**	**11P**	**8Y**
Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	$200.40	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	$205.43	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	$209.11	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	$214.81	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	$216.93	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	$222.03	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00	$223.93	**15J**	**11P**	**9B**

	psi				
Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	$225.93	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	$227.93	**15J**	**11P**	**9B**
Laborers	Tunnel Work-Guage and Lock Tender	$67.48	**15J**	**11P**	**8Y**
Laborers	Tunnel Work-Miner	$67.48	**15J**	**11P**	**8Y**
Laborers	Vibrator	$64.98	**15J**	**11P**	**8Y**
Laborers	Vinyl Seamer	$63.87	**15J**	**11P**	**8Y**
Laborers	Watchman	$49.97	**15J**	**11P**	**8Y**
Laborers	Welder	$64.98	**15J**	**11P**	**8Y**
Laborers	Well Point Laborer	$64.98	**15J**	**11P**	**8Y**
Laborers	Window Washer/Cleaner	$49.97	**15J**	**11P**	**8Y**
Laborers - Underground Sewer & Water	General Laborer & Topman	$63.87	**15J**	**11P**	**8Y**
Laborers - Underground Sewer & Water	Pipe Layer	$64.98	**15J**	**11P**	**8Y**
Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	$49.97	**15J**	**11P**	**8Y**

Landscape Construction	Landscape Operator	$85.27	**15J**	**11G**	**8X**
Landscape Maintenance	Groundskeeper	$16.66		**1**	
Lathers	Journey Level	$78.76	**15O**	**11S**	
Marble Setters	Journey Level	$71.82	**7E**	**1N**	
Metal Fabrication (In Shop)	Journey Level	$33.09	**15G**	**11B**	
Millwright	Journey Level	$80.28	**15J**	**4C**	
Modular Buildings	Journey Level	$16.66		**1**	
Painters	Journey Level	$54.71	**6Z**	**11J**	
Pile Driver	Crew Tender	$86.81	**15J**	**11U**	**9L**
Pile Driver	Journey Level	$80.50	**15J**	**11U**	**9L**
Plasterers	Journey Level	$73.54	**7Q**	**1R**	
Plasterers	Nozzleman	$77.54	**7Q**	**1R**	
Playground & Park Equipment Installers	Journey Level	$16.66		**1**	
Plumbers & Pipefitters	Journey Level	$90.87	**5A**	**1G**	
Power Equipment Operators	Asphalt Plant Operators	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Assistant Engineer	$81.51	**15J**	**11G**	**8X**

Power Equipment Operators	Barrier Machine (zipper)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Batch Plant Operator: concrete	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Boat Operator	$87.82	**7A**	**11H**	**8X**
Power Equipment Operators	Bobcat	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Brokk - Remote Demolition Equipment	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Brooms	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Bump Cutter	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Cableways	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Chipper	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Compressor	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Finish Machine - Laser Screed	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$85.27	**15J**	**11G**	**8X**

Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Conveyors	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Cranes Friction: 200 tons and over	$90.46	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes, A-frame: 10 tons and under	$82.59	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$88.67	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	$87.03	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	$89.60	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	$90.46	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of	$87.82	**7A**	**11H**	**8X**

	boom(including jib with attachments)				
Power Equipment Operators	Cranes: Friction cranes through 199 tons	$89.60	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: through 19 tons with attachments, a-frame over 10 tons	$86.36	**7A**	**11H**	**8X**
Power Equipment Operators	Crusher	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Deck Engineer/Deck Winches (power)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Derricks, On Building Work	$87.82	**7A**	**11H**	**8X**
Power Equipment Operators	Dozers D-9 & Under	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Drilling Machine	$87.59	**15J**	**11G**	**8X**
Power Equipment Operators	Elevator and man-lift: permanent and shaft type	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Forklift: 3000 lbs and over with attachments	$85.27	**15J**	**11G**	**8X**

Power Equipment Operators	Forklifts: under 3000 lbs. with attachments	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Gradechecker/Stakeman	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Guardrail Punch	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Horizontal/Directional Drill Locator	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Horizontal/Directional Drill Operator	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	$86.36	**7A**	**11H**	**8X**
Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	$82.59	**7A**	**11H**	**8X**

Power Equipment Operators	Leverman	$88.47	**15J**	**11G**	**8X**
Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders, Overhead Under 6 Yards	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders, Plant Feed	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders: Elevating Type Belt	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Locomotives, All	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Material Transfer Device	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Mechanics: All (Leadmen - $0.50 per hour over mechanic)	$87.59	**15J**	**11G**	**8X**
Power Equipment Operators	Motor Patrol Graders	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$81.51	**15J**	**11G**	**8X**

Power Equipment Operators	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Overhead, bridge type Crane: 20 tons through 44 tons	$87.03	**7A**	**11H**	**8X**
Power Equipment Operators	Overhead, bridge type: 100 tons and over	$88.67	**7A**	**11H**	**8X**
Power Equipment Operators	Overhead, bridge type: 45 tons through 99 tons	$87.82	**7A**	**11H**	**8X**
Power Equipment Operators	Pavement Breaker	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Pile Driver (other Than Crane Mount)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Plant Oiler - Asphalt, Crusher	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Posthole Digger, Mechanical	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Power Plant	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Pumps - Water	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Quad 9, Hd 41, D10 And Over	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Quick Tower: no cab, under 100 feet in height	$85.93	**15J**	**11G**	**8X**

	base to boom				
Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Rigger and Bellman	$82.59	**7A**	**11H**	**8X**
Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	$86.36	**7A**	**11H**	**8X**
Power Equipment Operators	Rollagon	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Roller, Other Than Plant Mix	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Roto-mill, Roto-grinder	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Saws - Concrete	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Scrapers - Concrete & Carry All	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Service Engineers: Equipment	$85.27	**15J**	**11G**	**8X**

Power Equipment Operators	Shotcrete/Gunite Equipment	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$87.59	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$88.47	**15J**	**11G**	**8X**
Power Equipment Operators	Slipform Pavers	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Spreader, Topsider & Screedman	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Subgrader Trimmer	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Tower Bucket Elevators	$85.27	**15J**	**11G**	**8X**

Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	$89.60	**7A**	**11H**	**8X**
Power Equipment Operators	Tower crane: up to 175' in height base to boom	$88.67	**7A**	**11H**	**8X**
Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	$90.46	**7A**	**11H**	**8X**
Power Equipment Operators	Transporters, All Track Or Truck Type	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Trenching Machines	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators	Truck Crane Oiler/Driver: 100 tons and over	$87.03	**7A**	**11H**	**8X**
Power Equipment Operators	Truck crane oiler/driver: under 100 tons	$86.36	**7A**	**11H**	**8X**
Power Equipment Operators	Truck Mount Portable Conveyor	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Vac Truck (Vactor Guzzler, Hydro Excavator)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators	Welder	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators	Wheel Tractors, Farmall Type	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators	Yo Yo Pay Dozer	$85.93	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operators	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator, Concrete	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Boat Operator	$87.82	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Bobcat	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Brokk - Remote Demolition Equipment	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Brooms	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Bump Cutter	$85.93	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Cableways	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Chipper	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Compressor	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine - Laser Screed	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Conveyors	$85.27	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Cranes Friction: 200 tons and over	$90.46	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes, A-frame: 10 tons and under	$82.59	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$88.67	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	$87.03	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	$89.60	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	$90.46	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	$87.82	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	$89.60	**7A**	**11H**	**8X**

Power Equipment Operators- Underground Sewer & Water	Cranes: through 19 tons with attachments, a-frame over 10 tons	$86.36	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Crusher	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Deck Engineer/Deck Winches (power)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Derricks, On Building Work	$87.82	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Drilling Machine	$87.59	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$85.93	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Gradechecker/Stakeman	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Guardrail Punch	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Locator	$85.27	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Operator	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	$82.59	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	$86.36	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Leverman	$88.47	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders, Overhead Under 6 Yards	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Locomotives, All	$85.93	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Mechanics: All (Leadmen - $0.50 per hour over mechanic)	$87.59	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Motor Patrol Graders	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type Crane: 20 tons through 44 tons	$87.03	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 100 tons and over	$88.67	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	$87.82	**7A**	**11H**	**8X**

Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pile Driver (other Than Crane Mount)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Power Plant	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pumps - Water	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Quick Tower: no cab, under 100 feet in height base to boom	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	$86.69	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Rigger and Bellman	$82.59	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	$86.36	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rollagon	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roller, Other Than Plant Mix	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	$85.27	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shotcrete/Gunite Equipment	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$87.59	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$88.47	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	$86.69	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	$89.60	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower crane: up to 175' in height base to boom	$88.67	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	$90.46	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Trenching Machines	$85.27	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	$87.03	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	$86.36	**7A**	**11H**	**8X**

Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Vac Truck (Vactor Guzzler, Hydro Excavator)	$85.93	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Welder	$86.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	$81.51	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	$85.93	**15J**	**11G**	**8X**
Power Line Clearance Tree Trimmers	Journey Level In Charge	$64.20	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Spray Person	$60.74	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Tree Equipment Operator	$64.20	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Tree Trimmer	$57.29	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$43.05	**5A**	**4A**	

Refrigeration & Air Conditioning Mechanics	Journey Level	$100.35	**6Z**	**1G**
Residential Brick Mason	Journey Level	$71.82	**7E**	**1N**
Residential Carpenters	Journey Level	$31.89		**1**
Residential Cement Masons	Journey Level	$35.24		**1**
Residential Drywall Applicators	Journey Level	$26.00		**1**
Residential Drywall Tapers	Journey Level	$27.18		**1**
Residential Electricians	Journey Level	$47.21	**7F**	**1D**
Residential Glaziers	Journey Level	$16.66		**1**
Residential Insulation Applicators	Journey Level	$18.03		**1**
Residential Laborers	Journey Level	$28.59		**1**
Residential Marble Setters	Journey Level	$71.82	**7E**	**1N**
Residential Painters	Journey Level	$30.34		**1**
Residential Plumbers & Pipefitters	Journey Level	$40.83		**1**
Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$55.37	**5A**	**1G**
Residential Sheet Metal Workers	Journey Level (Field or Shop)	$58.44	**7J**	**1I**

Residential Soft Floor Layers	Journey Level	$30.31		**1**
Residential Sprinkler Fitters (Fire Protection)	Journey Level	$19.32		**1**
Residential Stone Masons	Journey Level	$71.82	**7E**	**1N**
Residential Terrazzo Workers	Journey Level	$16.66		**1**
Residential Terrazzo/Tile Finishers	Journey Level	$18.09		**1**
Residential Tile Setters	Journey Level	$16.66		**1**
Roofers	Journey Level	$67.45	**5A**	**3H**
Roofers	Using Irritable Bituminous Materials	$70.45	**5A**	**3H**
Sheet Metal Workers	Journey Level (Field or Shop)	$99.46	**7F**	**1E**
Shipbuilding & Ship Repair	New Construction Boilermaker	$58.93	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Carpenter	$51.85	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Crane Operator	$43.00	**7V**	**1**
Shipbuilding & Ship Repair	New Construction Electrician	$58.98	**7X**	**4J**

Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	$91.81	**15H**	**11C**
Shipbuilding & Ship Repair	New Construction Laborer	$58.60	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Machinist	$58.79	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Operating Engineer	$43.00	**7V**	**1**
Shipbuilding & Ship Repair	New Construction Painter	$58.72	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Pipefitter	$59.07	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Rigger	$58.93	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Sheet Metal	$58.68	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Shipwright	$51.85	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	$43.00	**7V**	**1**
Shipbuilding & Ship Repair	New Construction Welder / Burner	$58.93	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Boilermaker	$58.93	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Carpenter	$51.85	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Crane Operator	$45.06	**7Y**	**4K**

Shipbuilding & Ship Repair	Ship Repair Electrician	$58.98	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	$91.81	**15H**	**11C**
Shipbuilding & Ship Repair	Ship Repair Laborer	$58.60	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Machinist	$58.79	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Operating Engineer	$45.06	**7Y**	**4K**
Shipbuilding & Ship Repair	Ship Repair Painter	$58.72	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Pipefitter	$59.07	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Rigger	$58.93	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Sheet Metal	$58.68	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Shipwright	$51.85	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	$45.06	**7Y**	**4K**
Sign Makers & Installers (Electrical)	Journey Level	$16.66		**1**
Sign Makers & Installers (Non-Electrical)	Journey Level	$16.66		**1**
Soft Floor Layers	Journey Level	$63.29	**15J**	**4C**
Solar Controls For Windows	Journey Level	$16.66		**1**

Sprinkler Fitters (Fire Protection)	Journey Level	$75.89	**7J**	**1R**	
Stage Rigging Mechanics (Non Structural)	Journey Level	$16.66		**1**	
Stone Masons	Journey Level	$71.82	**7E**	**1N**	
Street And Parking Lot Sweeper Workers	Journey Level	$16.66		**1**	
Surveyors	Assistant Construction Site Surveyor	$86.36	**7A**	**11H**	**8X**
Surveyors	Chainman	$82.59	**7A**	**11H**	**8X**
Surveyors	Construction Site Surveyor	$87.82	**7A**	**11H**	**8X**
Surveyors	Drone Operator (when used in conjunction with survey work only)	$82.59	**7A**	**11H**	**8X**
Surveyors	Ground Penetrating Radar Operator	$82.59	**7A**	**11H**	**8X**
Telecommunication Technicians	Telecom Technician Journey Level	$58.51	**5B**	**1B**	
Telephone Line Construction - Outside	Cable Splicer	$41.35	**5A**	**2B**	
Telephone Line Construction - Outside	Hole Digger/Ground Person	$27.31	**5A**	**2B**	
Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$34.53	**5A**	**2B**	

Telephone Line Construction - Outside	Telephone Lineperson	$39.07	**5A**	**2B**
Terrazzo Workers	Journey Level	$67.51	**7E**	**1N**
Tile Setters	Journey Level	$65.51	**7E**	**1N**
Tile, Marble & Terrazzo Finishers	Finisher	$56.34	**7E**	**1N**
Traffic Control Stripers	All cleanup required in connection with traffic control stripers work (Group 1)	$92.44	**15L**	**1K**
Traffic Control Stripers	Handling, painting and installing of all car stops, stop signs and any other type sign (Group 2)	$62.69	**15L**	**1K**
Traffic Control Stripers	Installation of guard rail and posts and similar protective devices (Group 2)	$62.69	**15L**	**1K**
Traffic Control Stripers	Installation of parking gates, ticket spitters and other mechanical and automatic control devices (Group 2)	$62.69	**15L**	**1K**
Traffic Control Stripers	Installation of plastic metal or composition button, or lines used instead of paint (Group 1)	$92.44	**15L**	**1K**

Traffic Control Stripers	Line removal; chemical sand and hydro-blast, paint and button (Group 1)	$92.44	**15L**	**1K**	
Traffic Control Stripers	Manufacturing and installation of all car stops and control devices and similar traffic regulators (Group 2)	$62.69	**15L**	**1K**	
Traffic Control Stripers	Manufacturing, painting, stenciling, servicing, repairing, placing and removal of traffic safety and control devices/barricades (Group 2)	$62.69	**15L**	**1K**	
Traffic Control Stripers	Painting and installing lines, arrows, bumpers, curbs, etc., on parking lots, air fields, highways, game courts (Group 1)	$92.44	**15L**	**1K**	
Traffic Control Stripers	Preparation and maintenance of all surfaces (Group 1)	$92.44	**15L**	**1K**	
Traffic Control Stripers	Seal coating, slurry coating and other surface protection (Group 2)	$62.69	**15L**	**1K**	
Truck Drivers	Asphalt Mix Over 16 Yards	$78.65	**15J**	**11M**	**8L**

Truck Drivers	Asphalt Mix To 16 Yards	$77.81	**15J**	**11M**	**8L**
Truck Drivers	Dump Truck	$77.81	**15J**	**11M**	**8L**
Truck Drivers	Dump Truck & Trailer	$78.65	**15J**	**11M**	**8L**
Truck Drivers	Other Trucks	$78.65	**15J**	**11M**	**8L**
Truck Drivers - Ready Mix	Transit Mix	$78.65	**15J**	**11M**	**8L**
Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$16.66		**1**	
Well Drillers & Irrigation Pump Installers	Oiler	$16.66		**1**	
Well Drillers & Irrigation Pump Installers	Well Driller	$18.02		**1**	

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.

Overtime Codes Continued

1. 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.

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.

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.

   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.

   M. This code appears to be missing. All hours worked on Saturdays, Sundays and holidays shall be paid at double 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.

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.

   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.

Overtime Codes Continued

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

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.

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.

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.

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.

Overtime Codes Continued

4. 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.

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.

S. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, work performed in excess of (10) hours shall be paid at one and one half (1-1/2) times the hourly rate of pay. On Monday through Friday, work performed outside the normal work hours of 6:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations).

All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed 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.

Multiple Shift Operations: When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. Special Shifts: The Special Shift Premium is the basic hourly rate of pay plus $2.00 an 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 more than four (4) hours of a special shift can only be performed outside the normal 6am 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 the 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).

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. 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

11. 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 After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   C 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. All non-overtime and non-holiday hours worked between 4:00 pm and 5:00 am, Monday through Friday, shall be paid at a premium rate of 15% over the hourly rate of wage.

   D. 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.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   E. The first two (2) hours after eight (8) regular hours Monday through Friday, the first ten (10) hours on Saturday, and the first ten (10) hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, and Sundays shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

11. F. 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-half times the hourly rate of wage 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.

G. 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 nine (9) hours or more. When an employee returns to work without at least nine (9) 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 nine (9) hours rest period.

H. 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 ten (10) hours or more. When an employee returns to work without at least ten (10) 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 ten (10) hours rest period.

J. All hours worked on holidays shall be paid at double the hourly rate of wage.

K. On Monday through Friday hours worked outside 4:00 am and 5:00 pm, and the first two (2) hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked over 10 hours per day Monday through Friday, and all hours worked on Saturdays, Sundays, and Holidays worked shall be paid at double the hourly rate of wage.

L. An employee working outside 5:00 am and 5:00 pm shall receive an additional two dollar ($2.00) per hour for all hours worked that shift. All hours worked on holidays shall be paid at one and one-half 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.

Overtime Codes Continued

11. M. 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.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that 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 of 5:00 am to 6:00 pm, then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shift shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten shifts.

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. All work performed after 6:00 pm Saturday to 5:00 am Monday, all work performed over twelve (12) hours, and all work performed on holidays shall be paid at double the straight time rate of pay.

Shift Pay Premium: In an addition to any overtime already required, all hours worked between the hours of 6:00 pm and 5:00 am shall receive an additional two dollars ($2.00) per hour.

N. All work performed over twelve hours in a shift and all work performed on Sundays and Holidays shall be paid at double the straight time rate.

Any time worked over eight (8) hours on Saturday shall be paid double the straight time rate, except employees assigned to work six 10-hour shifts per week shall be paid double the straight time rate for any time worked on Saturday over 10 hours.

O. All work performed on Saturdays, Sundays, and Holidays shall be paid at one and one half (1-1/2) times the straight time rate of pay.

Overtime Codes Continued

11. P. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that 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 of 5:00 a.m. to 6:00 p.m., then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shifts shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten-hour shifts.

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.

Q. 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 35% over the hourly rate of wage. Work performed on Sundays shall be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

R On Monday through Saturday hours worked outside 6:00 am and 7:00 pm, and all hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

When a holiday falls on a Saturday, the Friday before shall be the observed holiday. When a holiday falls on a Sunday, the following Monday shall be the observed holiday.

S. The first ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions, or other conditions beyond the control of the Employer, then Saturday may be worked at the straight time rate, for the first eight (8) hours, or the first ten (10) hours when a four day ten hour workweek has been established.

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.

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.

11. T. 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.

U. 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.

If, 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 a Special Shift may be worked, Monday through Friday, at the straight-time rate. The starting time of work for the Special Shift will be arranged to fit such conditions of work. Such Special Shift shall consist of eight (8) hours of work for eight (8) hours of pay or ten (10) hours of work for ten(10) hours of pay on a four-ten workday schedule.

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).

Holiday Codes Continued

5. I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

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).

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).

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).

Holiday Codes Continued

6. 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).

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.

Holiday Codes Continued

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.

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.

Holiday Codes Continued

7. 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.

Holiday Codes Continued

7. 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.

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.

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.

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.

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, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, Christmas Eve, and Christmas Day (9). Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday. Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Holiday Codes Continued

15. G. New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, the last scheduled workday before Christmas, and Christmas Day (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.

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, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, and Christmas Day (9). 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.

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, Independence Day, Labor Day, Veteran's 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. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

M. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day and Christmas Day (9). 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.

N. 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). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

O. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, the day before Christmas day, and Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

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.

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.

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.

Note Codes Continued

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.

Note Codes Continued

9. 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.

F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, 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.

H. One (1) person crew shall consist of a Party Chief. (Total Station or similar one (1) person survey system). Two (2) person survey party shall consist of a least a Party Chief and a Chain Person. Three (3) person survey party shall consist of at least a Party Chief, an Instrument Person, and a Chain Person.

9. I. 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’.

Employees may be required to perform any combination of work within the Diving team/crew, (with the exception of dive Supervisor) provided they are paid at the highest rate at which he/she has worked for the shift.

L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.

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.

APPENDIX B
GEOTECHNICAL DATA REPORT
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GEOTEST

741 Marine Drive
Bellingham, WA 98225

PHONE 360 733_7318
TOLL FREE 888 251_5276
FAX 360 733_7418

August 2nd, 2010
Job No. 10-0363

Reichhardt and Ebe Engineering
PO Box 978
Lynden, WA 98264

Attn.: Ben Martin

Re: Limited Subsurface Investigation
I-5 Utility Crossing - Thornton Street / Newkirk Road
Ferndale, WA 98248

Dear Mr. Martin:

This report presents the results of our limited subsurface investigation for the proposed I-5 watermain crossing between Thornton Street and Newkirk Road in Ferndale, Washington. Our services were completed in accordance with your request.

PROJECT DESCRIPTION

We understand that there are plans to directionally drill a new utility below I-5 along the Thornton Street and Newkirk Road right-of-ways. Reichhardt and Ebe Engineering requested that we explore the subsurface conditions below the proposed alignment by drilling a total of two borings at depths ranging between approximately 20 to 30 feet below existing site grades.

SUBSURFACE CONDITIONS

Subsurface soil conditions at the site were explored by drilling and sampling two test borings (B-1 & B-2) using a trailer-mounted drill rig on July 14th, 2010. Both borings were advanced adjacent to I-5 in the Thornton Street and Newkirk Road right-of-ways. Approximate locations are shown in the Site Exploration Map (Figure 1). Both explorations were extended to a depth of approximately 31½ feet below the existing ground surface (BGS).

At the surface of both explorations we encountered approximately 8 to 12 inches of sandy gravel (pit run fill) overlying dense, gray to brown, moist, silty, fine to coarse sand (glacial outwash) to a depth of approximately 10 feet BGS. Below 10 feet BGS we encountered very soft to medium stiff, gray, wet, sandy clay (Bellingham Drift) with occasional thin sand layers to the base of our explorations. Please see the boring logs attached with this report (Figures 3 & 4) for more detail.

Groundwater

At the time of our subsurface investigation on July 14th of 2010, groundwater was observed in B-1 at a depth of approximately 10 feet BGS. Significant groundwater was not observed within B-2.

Groundwater levels and seepage rates are not static, and vary with respect to surface runoff, precipitation, season, changes in site utilization, both on and off site, and other factors. In general, groundwater levels are higher during the wetter months, October through June.

LIMITATIONS

The observations provided in this report are based on conditions encountered at the time of the subsurface exploration performed by GeoTest Services, Inc. and our experience and judgment. Our work has been performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in this area for the exclusive use of Reichhardt and Ebe Engineering and their representatives. No warranty, expressed or implied, is made.

We must presume the subsurface conditions encountered are representative for the proposed site. Subsurface conditions may vary with time and between exploratory locations, and unanticipated conditions may be encountered.

We appreciate the opportunity to be of service to you on this project. If any questions should arise regarding this report, please contact the undersigned.

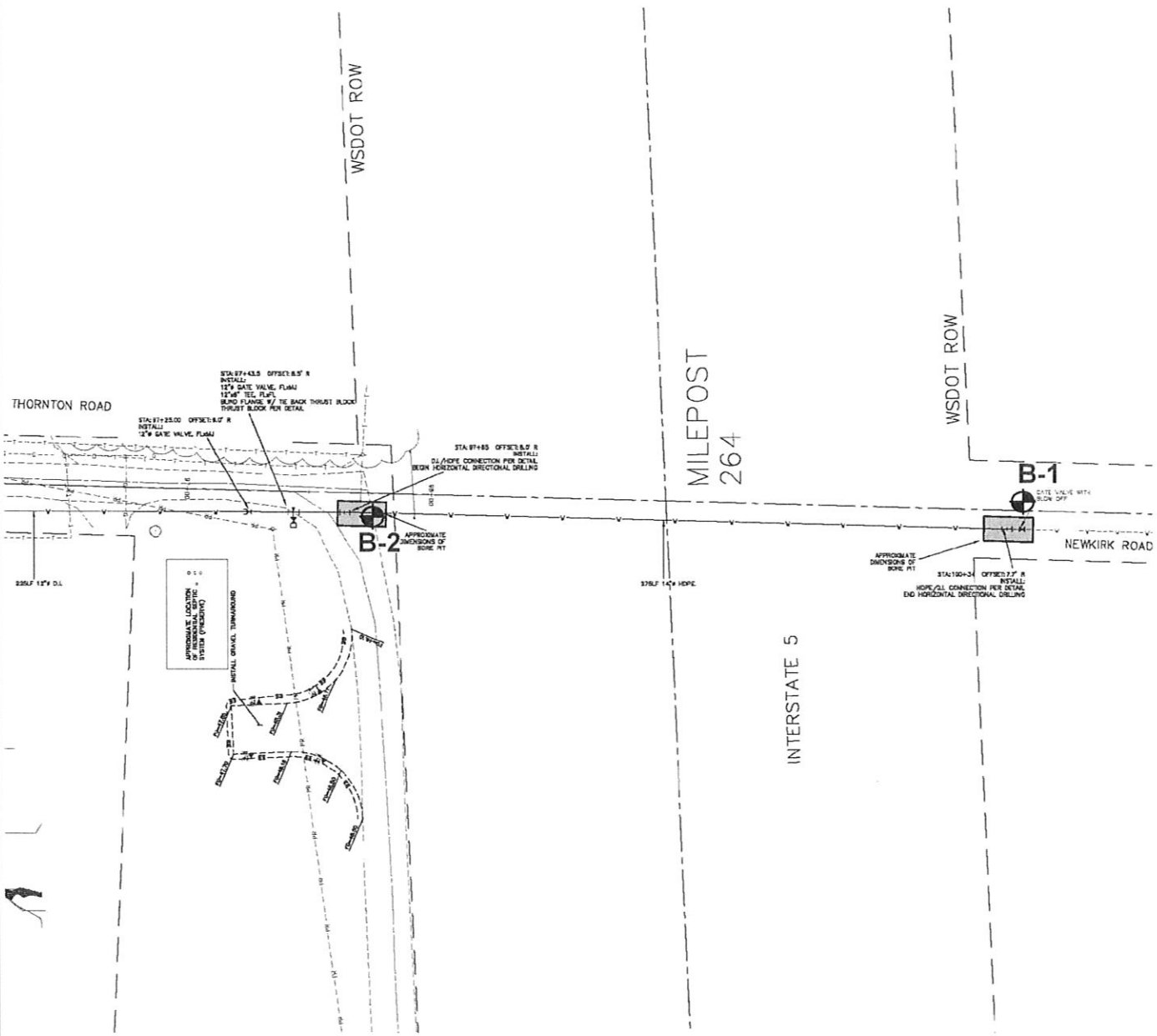
Respectfully Submitted,
GeoTest Services, Inc.

Grant Richardson
Engineering Geologist

Danny Goger, E.I.T.
Engineer in Training

Attachments:

Figure 1	Site and Exploration Map
Figure 2	Soil Classification System and Key
Figure 3 & 4	Boring Logs
Figure 5	Grain Size Test Data
Figure 6	Plasticity Chart



Base Map Provided By Reichhardt & Ebe Engineering, Inc

N

⊕ B-# - APPROXIMATE BORING LOCATION

GEOTEST SERVICES, INC.
741 Marine Drive
Bellingham, WA 98225
phone: (360) 733-7318
fax: (360) 733-7418

Date: 8-02-10	By: DG	Scale: None	Project 10-0363

SITE AND EXPLORATION MAP
I-5 UTILITY CROSSING
THORNTON STREET TO NEWKIRK ROAD
FERNDALE, WASHINGTON

Figure 1

Soil Classification System

MAJOR DIVISIONS			GRAPHIC SYMBOL	USCS LETTER SYMBOL	TYPICAL DESCRIPTIONS[1][2]
COARSE-GRAINED SOIL (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		GW	Well-graded gravel; gravel/sand mixture(s); little or no fines
				GP	Poorly graded gravel; gravel/sand mixture(s); little or no fines
		GRAVEL WITH FINES (Appreciable amount of fines)		GM	Silty gravel; gravel/sand/silt mixture(s)
				GC	Clayey gravel; gravel/sand/clay mixture(s)
	SAND AND SANDY SOIL (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		SW	Well-graded sand; gravelly sand; little or no fines
				SP	Poorly graded sand; gravelly sand; little or no fines
		SAND WITH FINES (Appreciable amount of fines)		SM	Silty sand; sand/silt mixture(s)
				SC	Clayey sand; sand/clay mixture(s)
FINE-GRAINED SOIL (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid limit less than 50)			ML	Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity
				CL	Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay
				OL	Organic silt; organic, silty clay of low plasticity
	SILT AND CLAY (Liquid limit greater than 50)			MH	Inorganic silt; micaceous or diatomaceous fine sand
				CH	Inorganic clay of high plasticity; fat clay
				OH	Organic clay of medium to high plasticity; organic silt
	HIGHLY ORGANIC SOIL			PT	Peat; humus; swamp soil with high organic content

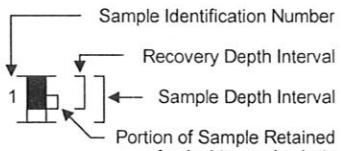
OTHER MATERIALS	GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
PAVEMENT		AC or PC	Asphalt concrete pavement or Portland cement pavement
ROCK		RK	Rock (See Rock Classification)
WOOD		WD	Wood, lumber, wood chips
DEBRIS		DB	Construction debris, garbage

Notes:
1. Soil descriptions are based on the general approach presented in the *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*, as outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the *Standard Test Method for Classification of Soils for Engineering Purposes*, as outlined in ASTM D 2487.
2. Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:

Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc.
Secondary Constituents: > 30% and ≤ 50% - "very gravelly," "very sandy," "very silty," etc.
> 12% and ≤ 30% - "gravelly," "sandy," "silty," etc.
Additional Constituents: > 5% and ≤ 12% - "slightly gravelly," "slightly sandy," "slightly silty," etc.
≤ 5% - "trace gravel," "trace sand," "trace silt," etc., or not noted.

Drilling and Sampling Key

SAMPLE NUMBER & INTERVAL



SAMPLER TYPE

Code	Description
a	3.25-inch O.D., 2.42-inch I.D. Split Spoon
b	2.00-inch O.D., 1.50-inch I.D. Split Spoon
c	Shelby Tube
d	Grab Sample
e	Other - See text if applicable
1	300-lb Hammer, 30-inch Drop
2	140-lb Hammer, 30-inch Drop
3	Pushed
4	Other - See text if applicable

Groundwater

▽ ATD — Approximate water elevation at time of drilling (ATD) or on date noted. Groundwater levels can fluctuate due to precipitation, seasonal conditions, and other factors.

Field and Lab Test Data

Code	Description
PP = 1.0	Pocket Penetrometer, tsf
TV = 0.5	Torvane, tsf
PID = 100	Photoionization Detector VOC screening, ppm
W = 10	Moisture Content, %
D = 120	Dry Density, pcf
-200 = 60	Material smaller than No. 200 sieve, %
GS	Grain Size - See separate figure for data
AL	Atterberg Limits - See separate figure for data
GT	Other Geotechnical Testing
CA	Chemical Analysis

GEOTEST

I-5 Utility Crossing
Thornton St and Newkirk Rd
Ferndale, WA

Soil Classification System and Key

Figure 2

B-1

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft):	Water Level
0						AC	Approximately 1" of chipseal asphalt	
						GP/SP	Approximately 8" of pit run (fill)	
						SP-SM	Dense, gray, moist, silty, fine to coarse SAND (glacial outwash)	
5	1	b2	34	W = 13				
10	2	b2	7	W = 20				▽ ATD
	3	b2		W = 62		CL	Medium stiff, light gray, wet, sandy CLAY (Bellingham Drift)	
15	4	b2	2	W = 42		SC/CL	Very soft to loose, gray, wet, clayey SAND to sandy CLAY. Stratified with occasional sand layers	
20	5	b2	0	W = 43		CL	Very soft, gray, wet, slightly sandy CLAY	
25	6	b2	2	W = 34				
30	7	b2	2	W = 30				

Boring Completed 07/14/10
Total Depth of Boring = 31.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

GEOTEST

I-5 Utility Crossing
Thornton St and Newkirk Rd
Ferndale, WA

Log of Boring B-1

Figure 3

B-2

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft):	
0						GP/SP	Approximately 12" of Pit Run Gravel (fill)	
						SP-SM	Dense, gray-brown, moist, slightly silty, fine SAND (glacial outwash)	Groundwater not encountered.
5	1	b2	34	W = 12 GS				
10	2	b2	3	W = 40		CL	Soft, gray, wet, slightly sandy CLAY (Bellingham Drift)	
15	3	b2	3	W = 62 GS AL				
20	4	b2	3	W = 23				
25	5	b2	3	W = 26 GS			Increasing sand content (~12%)	
30	6	b2	3	W = 29				

Boring Completed 07/14/10
Total Depth of Boring = 31.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

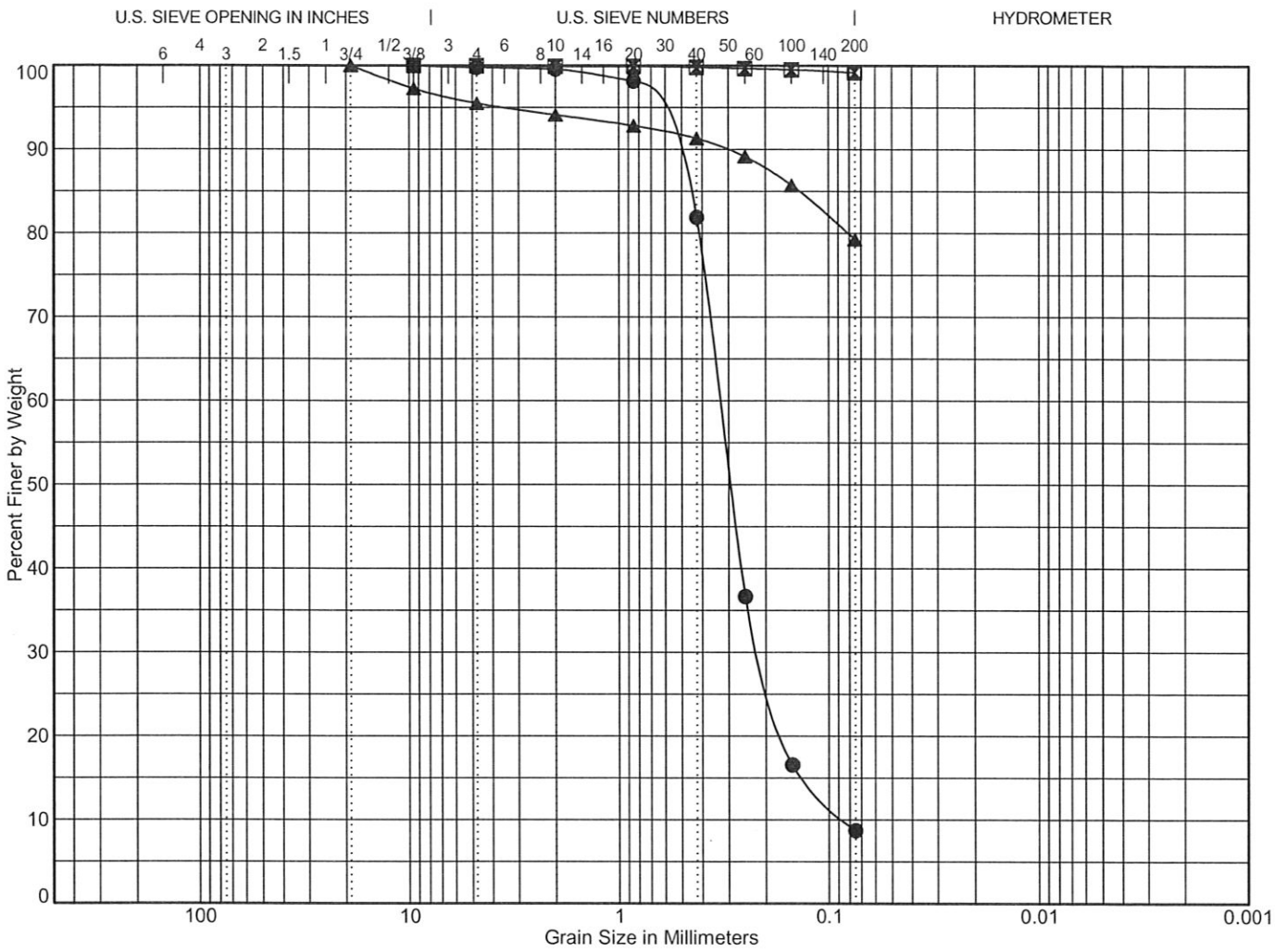
-561103.00 8/2/10 X:\0-PROJECTS GEO\00000-PROJECTS 2010-GEO\ROADS AND UTILITIES\R&E - 10-0363 - THORNTON AND NEWKIRK I-5 UTILITY CROSSING\GINT.GPJ SOIL BORING LOG

GEOTEST

I-5 Utility Crossing
Thornton St and Newkirk Rd
Ferndale, WA

Log of Boring B-2

Figure 4



Cobbles	Gravel		Sand			Silt or Clay
	coarse	fine	coarse	medium	fine	

Point		Depth	Classification	LL	PL	PI	C_c	C_u
●	B-2	5.0	Slightly silty, fine to medium SAND (SP-SM)				1.61	3.91
⊠	B-2	15.0	LEAN CLAY (CL)	48	22	26		
▲	B-2	25.0	Sandy CLAY (CL)					

Point		Depth	D_{100}	D_{60}	D_{50}	D_{30}	D_{10}	%Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines
●	B-2	5.0	9.5	0.329	0.292	0.211	0.084	0.0	0.2	0.2	17.7	73.2	8.7
⊠	B-2	15.0	9.5					0.0	0.0	0.0	0.1	0.6	99.2
▲	B-2	25.0	19					0.0	4.5	1.4	2.8	12.1	79.3

$C_c = D_{30}^2/(D_{60} * D_{10})$
$C_u = D_{60}/D_{10}$

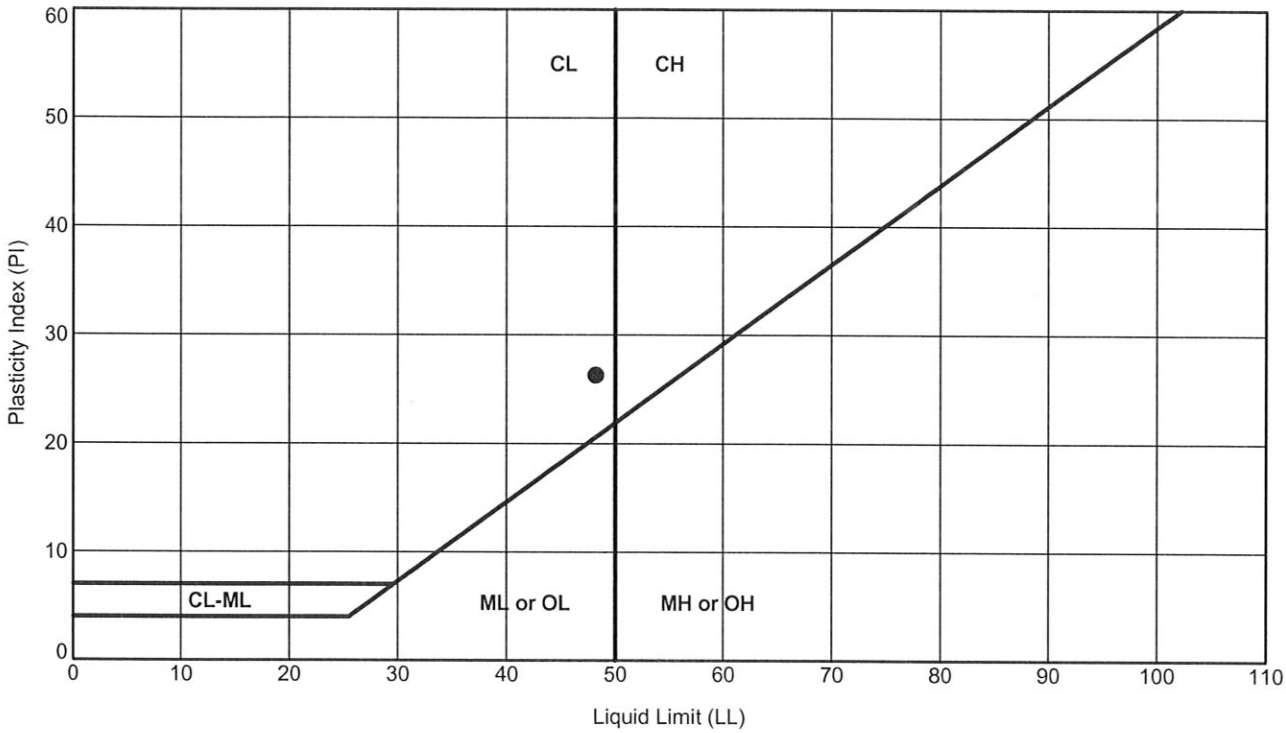
To be well graded: $1 < C_c < 3$ and $C_u > 4$ for GW or $C_u > 6$ for SW

GEOTEST

I-5 Utility Crossing
Thornton St and Newkirk Rd
Ferndale, WA

Grain Size Test Data

Figure 5



ATTERBERG LIMIT TEST RESULTS

Symbol	Exploration Number	Sample Number	Depth (ft)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Natural Moisture (%)	Soil Description	Unified Soil Classification
●	B-2		15.0	48	22	26	62	Lean CLAY	CL

ASTM D 4318 Test Method

-561103.00 8/2/10 X:\0-PROJECTS GEO\00000-PROJECTS 2010-GEO\ROADS AND UTILITIES\R&E - 10-0363 - THORNTON AND NEWKIRK I-5 UTILITY CROSSING\GINT.GPJ ATTERBERG LIMITS FIGURE

GEOTEST

I-5 Utility Crossing
Thornton St and Newkirk Rd
Ferndale, WA

Plasticity Chart

Figure
6

APPENDIX C
WSDOT TRAFFIC CONTROL PLAN
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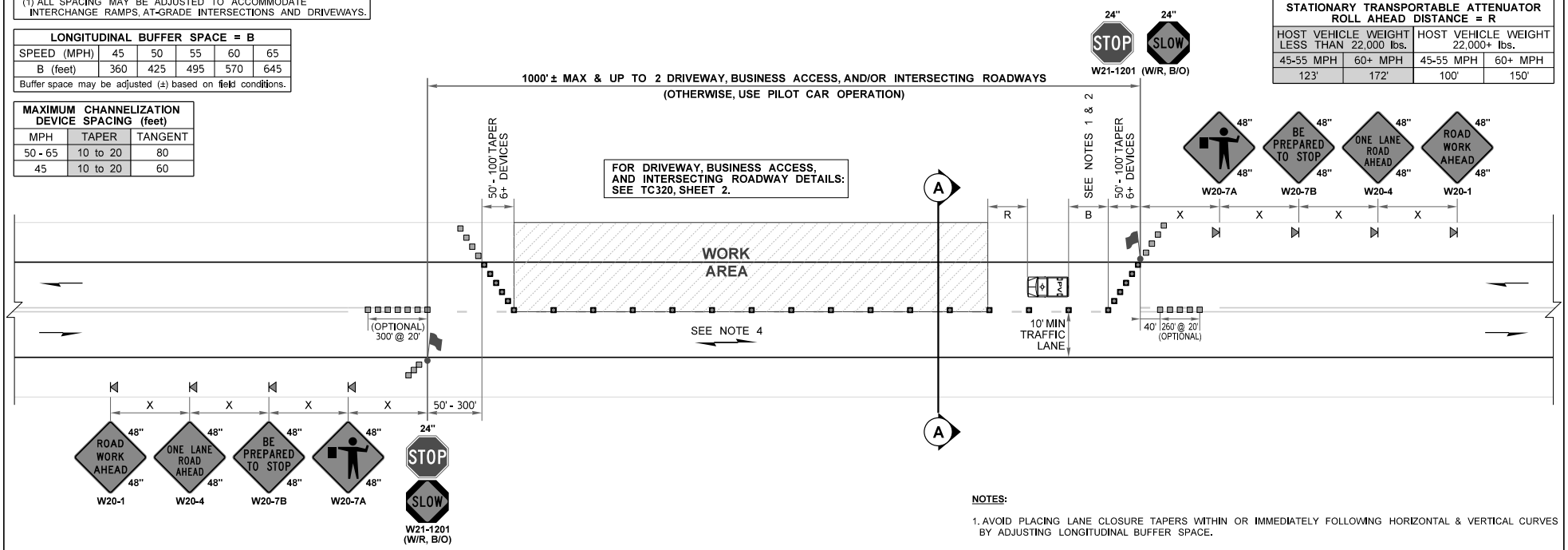
RECOMMENDED SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800' ±
RURAL ROADS	45-55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

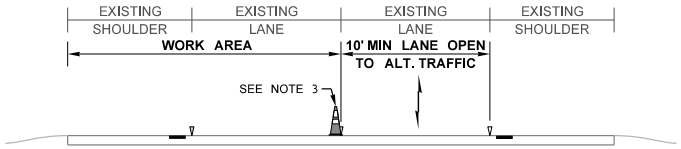
LONGITUDINAL BUFFER SPACE = B					
SPEED (MPH)	45	50	55	60	65
B (feet)	360	425	495	570	645
Buffer space may be adjusted (±) based on field conditions.					

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50 - 65	10 to 20	80
45	10 to 20	60

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R			
HOST VEHICLE WEIGHT LESS THAN 22,000 lbs.		HOST VEHICLE WEIGHT 22,000+ lbs.	
45-55 MPH	60+ MPH	45-55 MPH	60+ MPH
123'	172'	100'	150'





SECTION A-A

NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. **IF LONGITUDINAL BUFFER SPACE REDUCED** FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE (PV) TO A TRANSPORTABLE ATTENUATOR (TA). ADDITIONAL PV/TAs MAY BE ADDED AT SEPARATE WORK CREWS.
3. MAY SHIFT LATERALLY. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
4. PEDESTRIAN & BICYCLIST ACCOMEDIATIONS (ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES):
   (A) ALLOW PEDESTRIANS TO USE THE PAVED SHOULDER OR ADJACENT PATH OPPOSITE THE WORK AREA
   (B) COMBINE BIKES & VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO RELEASING ONCOMING TRAFFIC
   (C) PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS MAY BE USED)
5. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   1-07.8(1) HIGH-VISIBILITY APPAREL
   1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   9-35.1 24-INCH STOP/SLOW PADDLE SIZE
6. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
7. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
8. EXISTING PAVEMENT MARKINGS MAY VARY.

LEGEND:

- TEMPORARY SIGN LOCATION
- 28" REFLECTIVE TRAFFIC CONE (SEE NOTE 3)
- OPTIONAL CHANNELIZATION DEVICE
- PROTECTIVE VEHICLE (SEE NOTE 2)
- FLAGGER

ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED (45+ MPH HIGHWAYS)

NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\320Hwy45+AltTrafficFlagger.dgn						
TIME	6:56:02 AM			REGION NO.	STATE	FED.AID PROJ.NO.	
DATE	7/18/2023			10	WASH		
PLOTTED BY	LintzF			JOB NUMBER			
DESIGNED BY				CONTRACT NO.		LOCATION NO.	
ENTERED BY							
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.		REVISION	DATE	BY			

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

TYPICAL TRAFFIC CONTROL PLANS

Plot 1

PLAN REF NO TC320

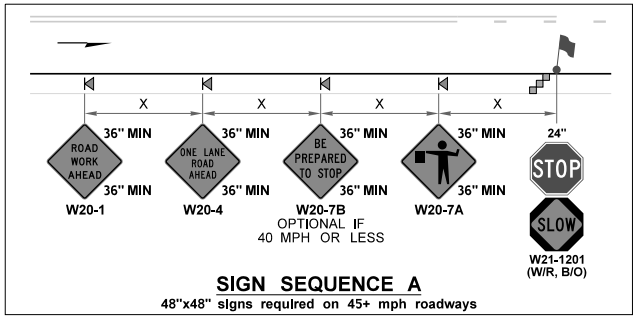
SHEET 1 OF 4 SHEETS

NOTES:

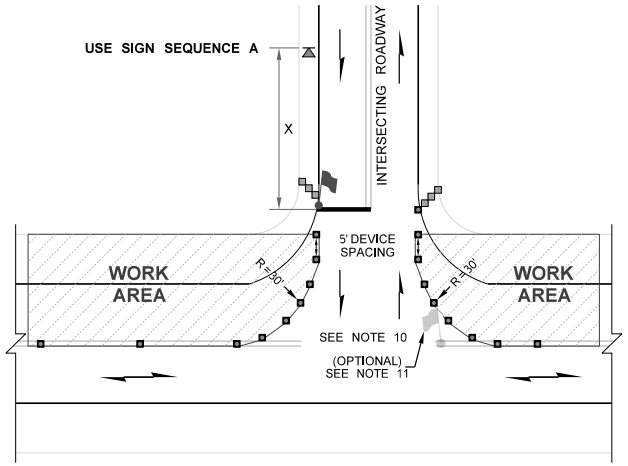
9. FOR LEGEND, TABLES, AND ADDITIONAL NOTES: SEE TC320, SHEET 1.

10. WORK MAY BRIEFLY OCCUR WITHIN LANE CLOSURE ACROSS INTERSECTING ROADWAY APPROACHES, BUSINESS ACCESSES, OR DRIVEWAYS. **MAY HOLD APPROACH OR ACCESS TRAFFIC FOR 5 MINUTES OR LESS** (ENGINEER MAY ACCEPT HOLDS UP TO 10 MINUTES) WHILE RESTRICTING TURNS FROM MAINLINE. CHANNELIZATION DEVICES DELINEATING APPROACH OR ACCESS MAY BE REMOVED OR RELOCATED AS NEEDED.

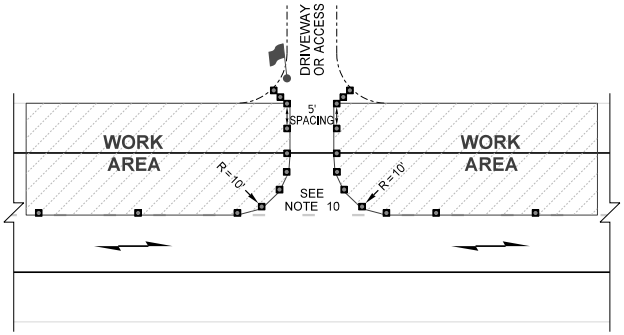
11. SINGLE FLAGGER (WITH RED FLAG/ RED GLOW CONE FLASHLIGHT) MAY BE ADDED TO THE INTERSECTING ROADWAY APPROACH TO HELP GUIDE ALTERNATING & TURNING TRAFFIC.



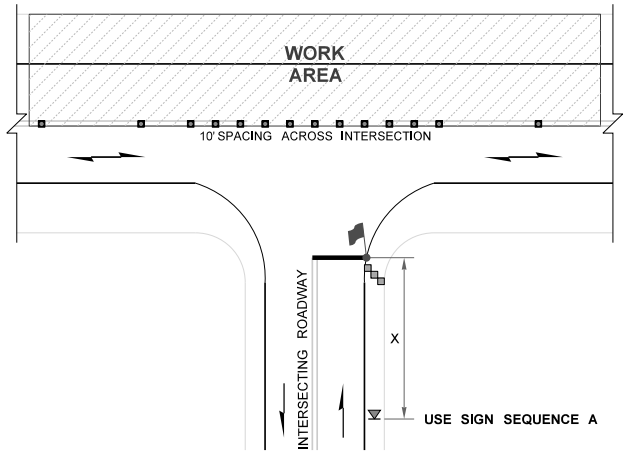
SIGN SEQUENCE A
48"x48" signs required on 45+ mph roadways



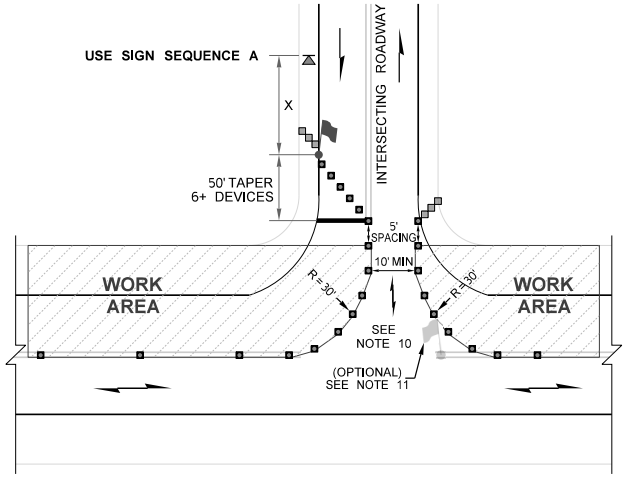
UNSIGNALIZED INTERSECTING ROADWAY DETAIL
SAME SIDE AS LANE CLOSURE (TWO OPEN LANES)



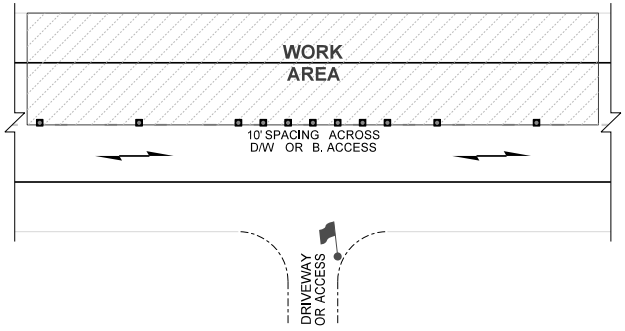
DRIVEWAY OR BUSINESS ACCESS DETAIL
SAME SIDE AS LANE CLOSURE



UNSIGNALIZED INTERSECTING ROADWAY DETAIL
OPPOSITE OF LANE CLOSURE



UNSIGNALIZED INTERSECTING ROADWAY DETAIL
SAME SIDE AS LANE CLOSURE (SINGLE OPEN LANE)



DRIVEWAY OR BUSINESS ACCESS DETAIL
OPPOSITE OF LANE CLOSURE

ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED (45+ MPH HIGHWAYS)

NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\320Hwy45+AltTrafficFlagger.dgn								Plot 2
TIME	6:56:03 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.		PLAN REF NO TC320
DATE	7/18/2023								
PLOTTED BY	LintzF				JOB NUMBER				
DESIGNED BY									
ENTERED BY					CONTRACT NO.		LOCATION NO.		SHEET 2 OF 4 SHEETS
CHECKED BY									
PROJ. ENGR.									
REGIONAL ADM.		REVISION	DATE	BY					

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

TYPICAL TRAFFIC CONTROL PLANS

WORK ZONE MICROSTATION CELLS: Updated work zone cells incorporated (July 2023).

WSDOT CAE automatically updates cell libraries on WSDOT and on-site consultant staff computers (no action needed); however, external users or off-site consultants must manually install them. For additional information email HQCAEHelpDesk@wsdot.wa.gov.

Division 4 in WSDOT Plans Preparation Manual, Section 400.06(29), provides updated work zone cell library policy and information for PS&Es. See https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/manuals/plans-preparation-manual

TYPICAL TCP USAGE EXPLANATION:

Plot 1: Flagger-controlled 1-lane, 2-way alternating traffic on the mainline for 45+ mph 2-lane highways with a shared bicycle-vehicle lane.

Plot 2: Details for intersecting roadways and driveway/business access for Plot 1.

Plot 3: Flagger-controlled 1-lane, 2-way alternating traffic on the mainline for 45+ mph 2-lane highways with a shared bicycle-vehicle lane for high traffic volumes (800+ vehicles/hour in all directions) by minimizing the distance between mainline flaggers.

Plot 4: Details for intersecting roadways and driveway/business access for Plot 3.

Other Alternating Traffic TCPs (45+ mph): See Typical Traffic Control Plan Library (https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/plan-sheet-library/work-zone-typical-traffic-control-plans-tcp)
* TC320s for other variations of flagger-controlled alternating traffic plans
* TC330s for AFAD-controlled alternating traffic plans
* TC340s for temporary signal-controlled alternating traffic plans
* TC350s for traffic holds

If not published yet, they will be added in the future.

Other Alternating Traffic TCPs (40 mph or less): See Typical Traffic Control Plan Library (https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/plan-sheet-library/work-zone-typical-traffic-control-plans-tcp)
* TC420s for flagger-controlled alternating traffic
* TC430s for AFAD-controlled alternating traffic
* TC440s for temporary signal-controlled alternating traffic plans
* TC450s for traffic holds

If not published yet, they will be added in the future.

DESIGNER NOTES:

A. Contact Region Transportation Operations to determine which Typical TCP(s) to utilize, as their are several variations available (or soon will be).

B. These typical traffic control plans may be modified for site specific situations and/or WSDOT Region Transportation Operations standard practices. **Typical TCPs are not "Standard Plans".**

C. **Do not use intermittent (old: "variable") regulatory work zone speed limit reductions for flagging or AFAD operations**. Instead, maintain the existing speed limit (or continuous regulatory work zone speed limit reduction, if applicable). See WSDOT Traffic Manual Section 5-18 and Executive Order E1060 regulatory speed limit reductions & advisory speed approval policy for work zones thru Region Transportation Operations.

D. See MUTCD Table 6F-1 for additional temporary sign size information. Work zone signs are usually smaller than those used permanently.

E. WAC 468-95-300 modifies MUTCD Table 6-1 "Recommended Advance Warning Sign Minimum Spacing". Sign spacing may be adjusted for field conditions based on engineering judgement. The Sign Spacing table is acceptable to use in Typical TCPs; however, site-specific traffic control plans should include actual sign spacing values (with Å) that have been verified in the field, on SR view, or via Google Maps.

F. When positioned behind channelization devices, temporary signs should be mounted at 5' minimum.

G. The work zone design speed is typically the posted speed limit (or the work zone speed limit when in effect). For split speed limits (SPEED LIMIT 65 TRUCKS 60), use the higher 65 mph for work zone design. For this Typical TCP, the work zone design speed is based on the existing posted speed limit for sign spacing, channelization device spacing, buffer, and roll ahead distances.

H. "Flagger tapers" are always 50'-100' per closed lane with 6 devices minimum (10'-20' spacing on the taper), regardless of the posted speed limit or lane width per MUTCD 6C.08, Paragraph 15. Never use "L" for these tapers.

I. Channelization devices types may be modified (vertical panel channelization devices prohibited). 28" reflective traffic cones are recommended on flagger-controlled alternating traffic (especially for access delineation to maintain visiblity for turning motorists). 36" reflective traffic cones, 42" tall channelization devices, or traffic safety drums may be used. Warning lights on channelization devices is being phased out in Washington. Contact Region Transportation Operations for information regarding their standard practices.

J. Maximum channelization device spacing table for tangents is based on WAC 468-95-301 and may ALWAYS be reduced.

K. Sequential arrow boards are prohibited at flagger tapers per WSDOT standard practice and per MUTCD Guidance TA-10.

L. Per MUTCD Section 6C.06, longitudinal buffer spaces are optional. Using longtitudinal buffer spaces listed in MUTCD Table 6C-2 is recommended as best practice when feasible, but may be adjusted based on engineering judgement. The Longitudinal Buffer Space table is acceptable in Typical TCPs; however, site-specific traffic control plans should include actual buffer distances that have been verified in the field, on SR view, or via Google Maps.

M. The lateral buffer (tranverse distance between open travel lanes and work area) is optional. No lateral buffer has been provided in these Typical TCPs due to the low speeds of alternating traffic. Actual work area limits may be modified.

N. WSDOT best practice is to place a protective vehicle (PV) in the closed lane in advance of the work area for flagger-controlled alternating traffic, but provide a full longitudinal buffer space to provide errant vehicles an opportunity to stop at the posted speed limit on 45+ mph roadways before impacting the PV. If the longnitudinal buffer distance must be reduced or eliminated on 45+ mph roadways with flagger-controlled alternating traffic, then upgrade the PV to a transportable attenuator (TA). Additional PVs (or TAs) may be added prior to multiple work crews within a work area. Contact Region Transportation Operations for their standard practice.

O. Placing channelization devices transversely (at 45° and 5-foot spacing) is an optional strategy to stop move errant drivers traveling within the closed lane(s) but is not shown in the Typical TCP.

P. The downstream taper of 50'-100' is required on 1-lane, 2-way traffic configurations.

Q. Duration of traffic holds for driveways, business accesses, and/or roadway approaches is listed as 5 minutes (1 minute on high volume highways) in this Typical Traffic Control Plan, but may be adjusted. Contact Region Transportation Operations for additional guidance.

ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED (45+ MPH HIGHWAYS)

INFORMATIONAL USE ONLY

DO NOT INCLUDE THIS SHEET IN CONTRACT PS&Es or TCP SUBMITTALs.

DESIGNER GUIDANCE

Plot 5

TC320

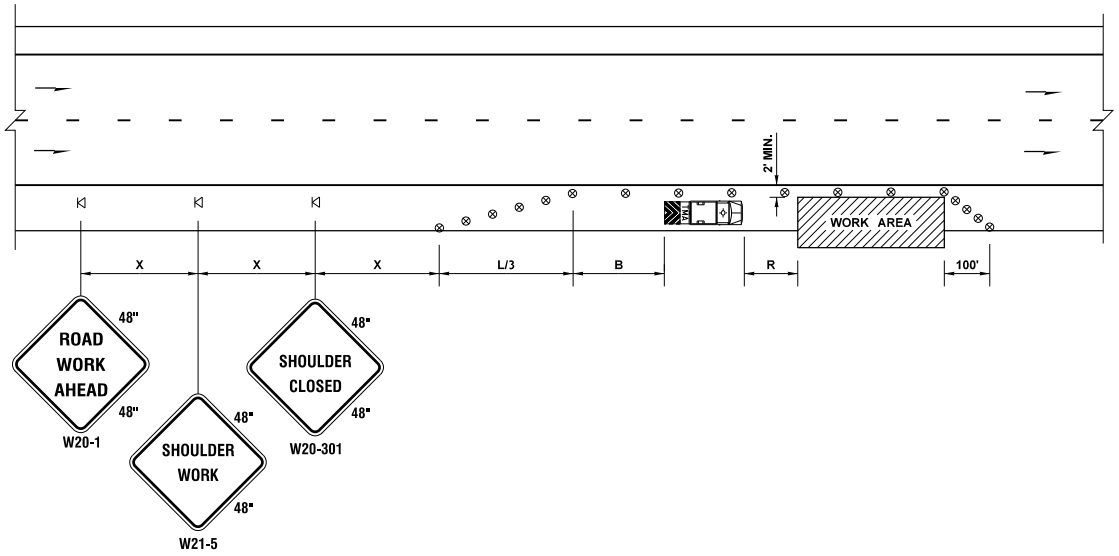
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR

SHOULDER CLOSURE - HIGH SPEED

NOT TO SCALE

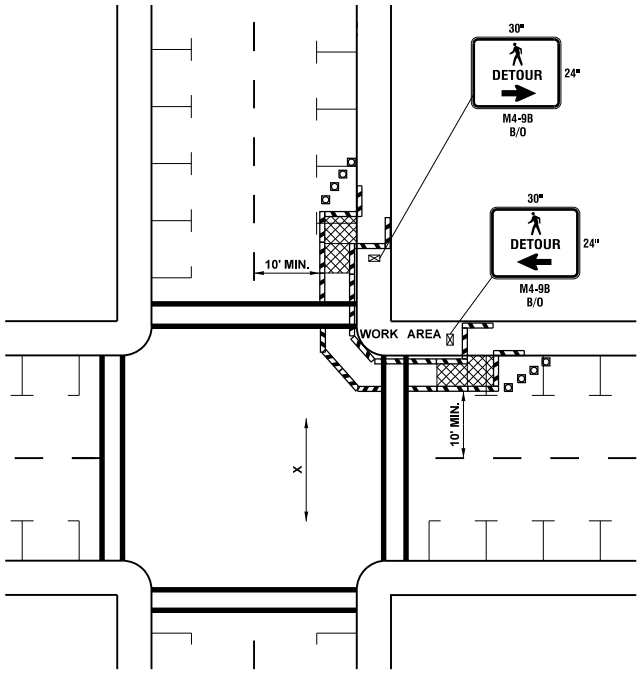
NOTES

1. NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
3. ALL SIGNS ARE BLACK ON ORANGE.

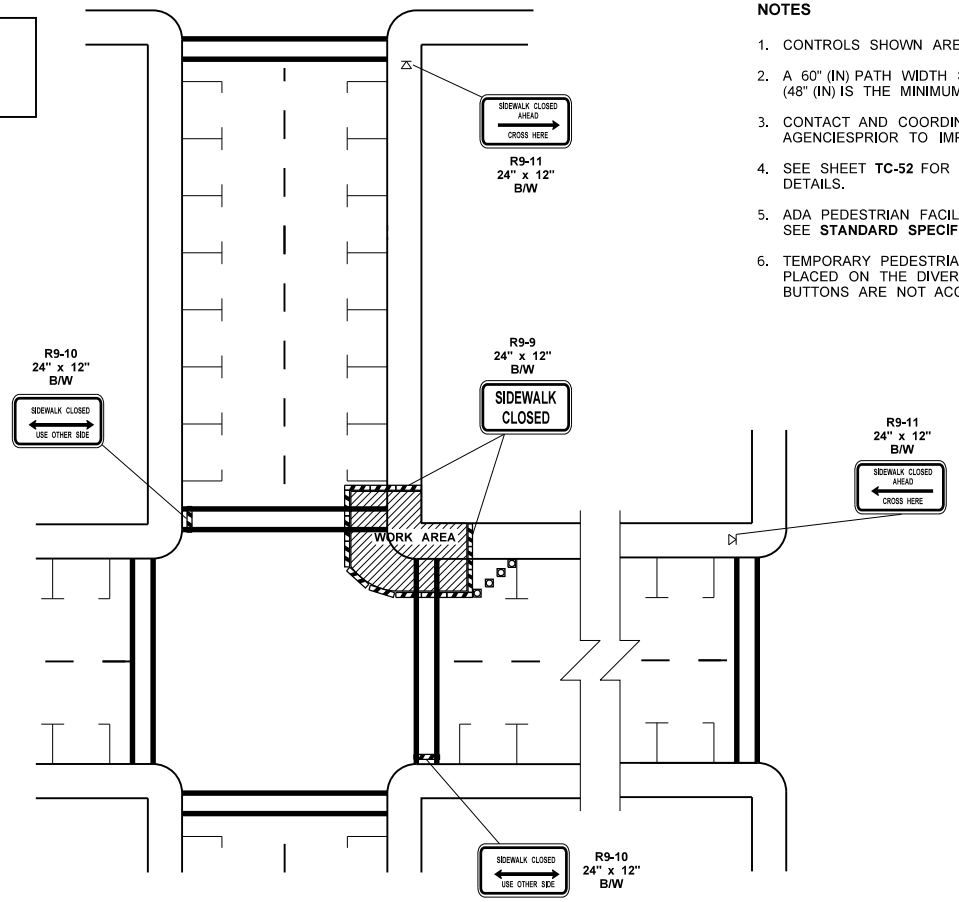
FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\(TC) Work Zone Traffic Control\(TC-6) Shoulder Closure - High Speed\TC-6.dgn								Plot 1
TIME	9:03:14 AM				REGION NO. / STATE: WASH	FED.AID PROJ.NO.		Washington State Department of Transportation	PLAN REF NO: TC6
DATE	1/3/2018				JOB NUMBER				
PLOTTED BY	lddelf				CONTRACT NO.	LOCATION NO.	DATE P.E. STAMP BOX	DATE P.E. STAMP BOX	TRAFFIC CONTROL PLAN
DESIGNED BY									SHEET OF SHEETS
ENTERED BY									
CHECKED BY									
PROJ. ENGR.									
REGIONAL ADM.		REVISION	DATE	BY					

NO PARKING R8-3 24" x 30" R/W

INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA 24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL. PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.



SIDEWALK DIVERSION



SIDEWALK DETOUR

NOTES

1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" (IN) PATH WIDTH SHOULD BE MAINTAINED (48" (IN) IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIESPRIOR TO IMPLEMENTING ANY CLOSURES.
4. SEE SHEET **TC-52** FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE **STANDARD SPECIFICATION 1-10.2(1)B.**
6. TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\(TC) Work Zone Traffic Control\(TC-16) Intersection Pedestrian Traffic Control\TC-16.dgn								Plot 1
TIME	11:26:56 AM				REGION NO. / STATE	FED.AID PROJ.NO.		Washington State Department of Transportation	PLAN REF NO TC16
DATE	1/9/2018				WASH				
PLOTTED BY	lilddelf				JOB NUMBER				
DESIGNED BY					CONTRACT NO.	LOCATION NO.	P.E. STAMP BOX / DATE	PEDESTRIAN CONTROL AND PROTECTION	SHEET OF SHEETS
ENTERED BY									
CHECKED BY									
PROJ. ENGR.									
REGIONAL ADM.		REVISION	DATE	BY			P.E. STAMP BOX / DATE		

APPENDIX D
WSDOT STANDARD PLANS
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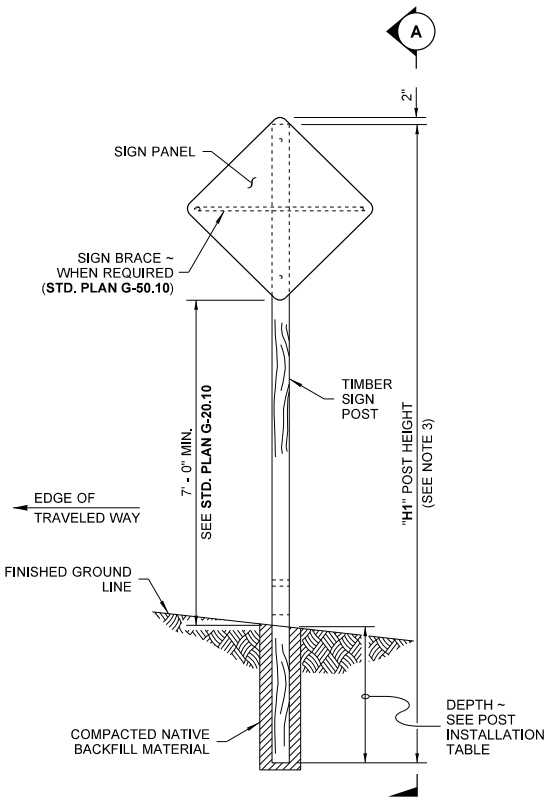
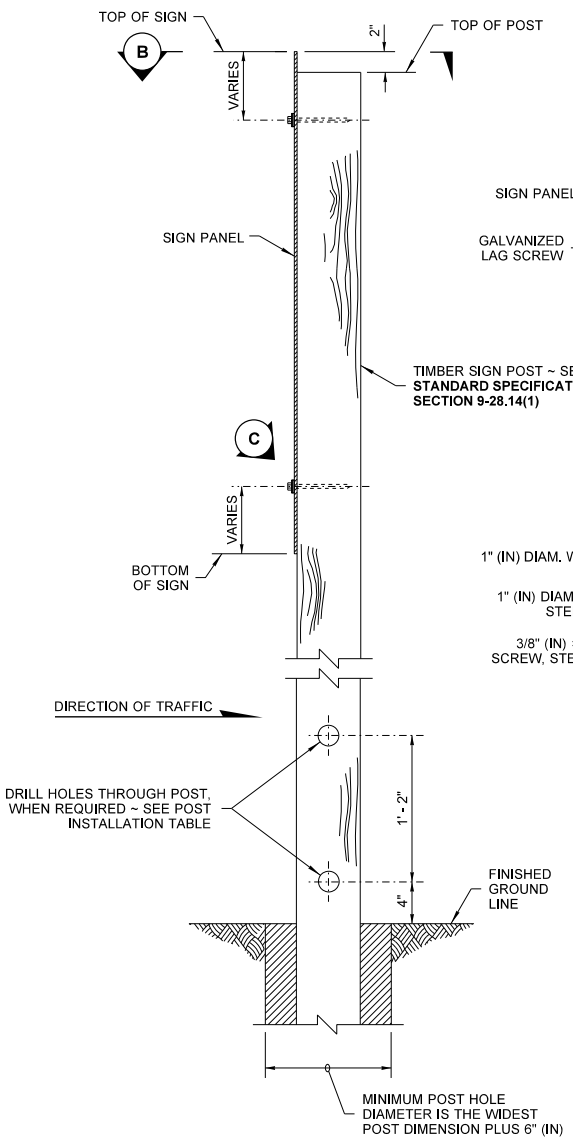
DRAWN BY: BILL BERENS

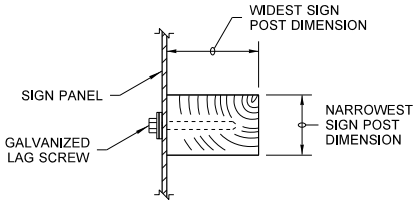


ELEVATION VIEW

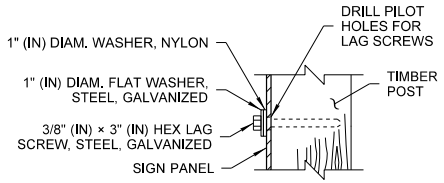
SINGLE-POST INSTALLATION



VIEW A



VIEW B



DETAIL C

NOTES

1. Notch is only required with multiple post installations.
2. 6×10, 8×10, and 6×12 Timber Sign Posts cannot be made breakaway and do not have holes or notches. These posts shall not be installed within the Design Clear Zone. They may be installed behind traffic barrier.
3. For "**X**", "**Y**", "**H1**", "**H2**", "**H3**", and "**H4**", refer to the Sign Specification Sheet in the Contract.
4. For 6×6 posts and larger, 7' (ft) minimum spacing is required between posts.
5. All materials shall meet the requirements of **Standard Specification Section 9-28**.

POST INSTALLATION TABLE

POST SIZE (NOM.)	DEPTH	HOLE DIAMETER	NOTCH DEPTH (SEE NOTE 1)
4×4	3' - 0"	NOT REQ'D	NOT REQ'D
4×6	4' - 0"	1 1/2"	1 1/2"
6×6	4' - 0"	2" SEE NOTES 3 & 4	2" SEE NOTES 3 & 4
6×8	5' - 0"	3" SEE NOTES 3 & 4	3" SEE NOTES 3 & 4
6×10	6' - 0"	SEE NOTE 2	SEE NOTE 2
8×10	6' - 0"	SEE NOTE 2	SEE NOTE 2
6×12	7' - 0"	SEE NOTE 2	SEE NOTE 2

JOHN C. NISBET STATE OF WASHINGTON 29115 REGISTERED PROFESSIONAL ENGINEER

Nisbet, John

Digitally signed by Nisbet, John
Date: 2018.06.27 11:29:46 -07'00'

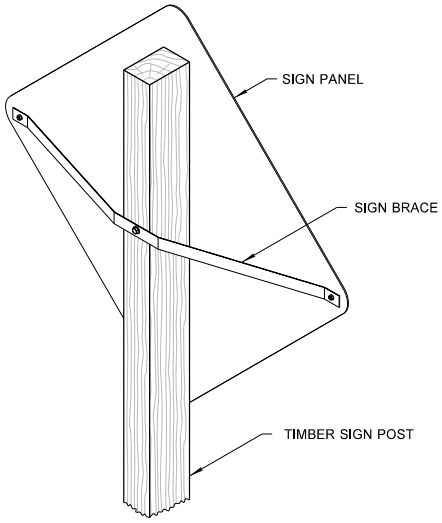
TIMBER SIGN SUPPORT

STANDARD PLAN G-22.10-04

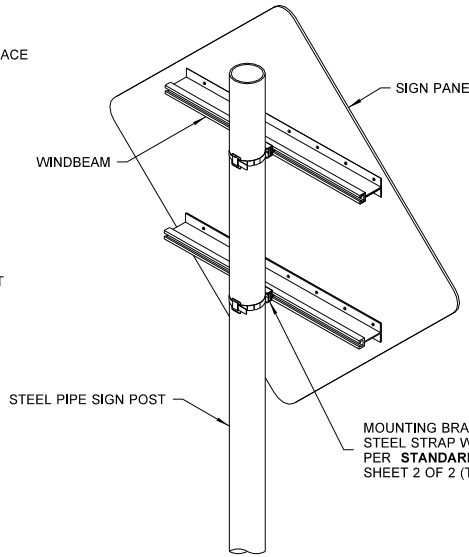
SHEET 1 OF 3 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 28 2018 10:42 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

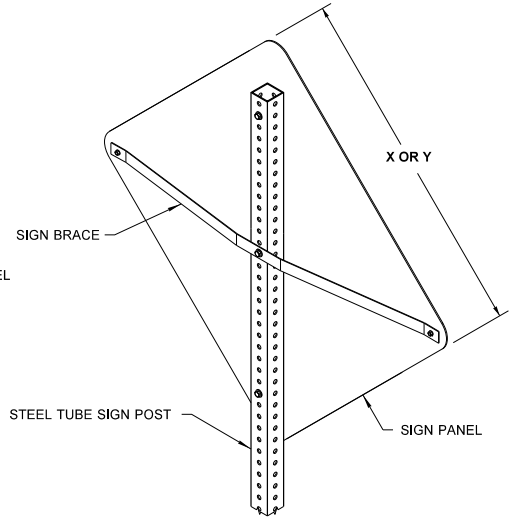
DRAWN BY: FERN LIDDELL



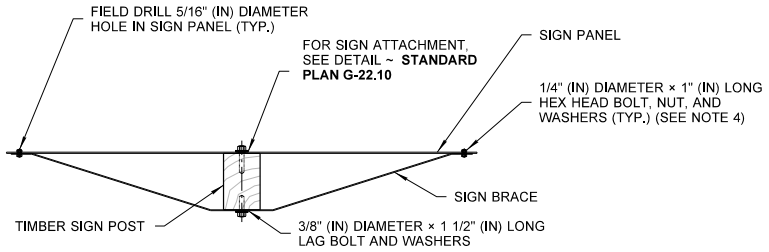
SIGN BRACE ON TIMBER POST



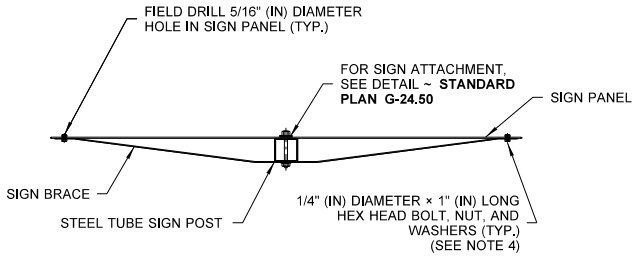
SIGN BRACE ON STEEL PIPE



SIGN BRACE ON STEEL TUBE



PLAN



PLAN

NOTES

1. Mounting brackets with steel straps shall be a stainless steel band and buckle system product or an approved equal. Mounting brackets shall be one bolt, flared leg; steel straps shall be 3/4" (in) wide and 0.030" (in) thick.
2. Sign braces are required for sign widths of 48" (in) or greater. For sign widths of 36" (in) or less, sign braces are only required when specified in the contract.
3. Sign braces are typically necessary on large sign panels that are exposed to high winds, traffic generated wind buffeting, or when snow thrown from plows might impact the sign.
4. A nylon washer shall be placed between the sign and the steel washer when the sign face has Type III, IV, VII or IX sheeting.
5. Signs 48" (in) or greater can be pinned together, back to back.
6. For signs installed back to back on a single post, no bracing is required.

JOHN C. NISBET
STATE OF WASHINGTON
29115
REGISTERED
PROFESSIONAL ENGINEER

Nisbet, John
Digitally signed by Nisbet, John
Date: 2018.06.27 11:42:32 -07'00'

SIGN BRACING

STANDARD PLAN G-50.10-03

SHEET 1 OF 2 SHEETS

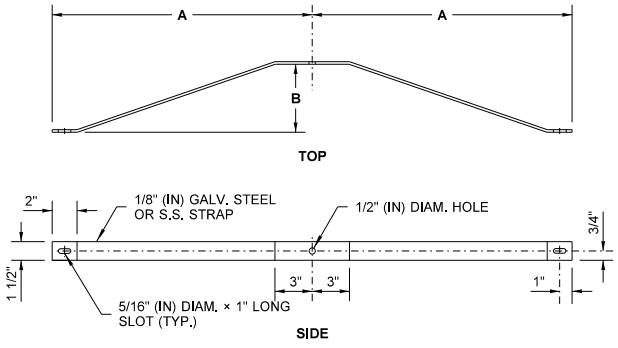
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 28 2018 10:37 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL

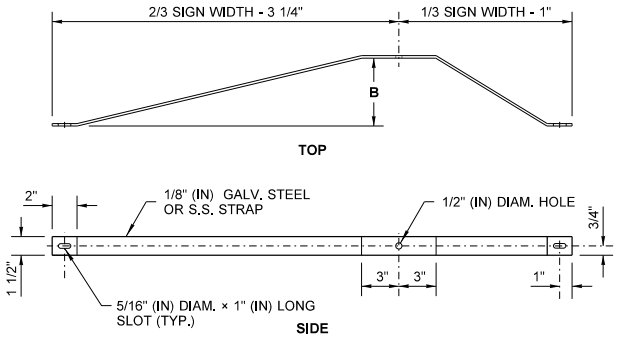
SIGN BRACE DIMENSIONS				
	SIGN TYPE			
	YIELD	DIAMOND-SHAPED	OTHERS	
A	1/3 SIGN WIDTH - 1 3/4"	1/2 SIGN WIDTH - 2 1/4"	1/2 SIGN WIDTH - 1"	
	SIGN POST TYPE			
	4×6 OR 6×6 TIMBER POST	6×8 TIMBER POST	3" DIAM. STEEL PIPE	2 1/2" SQUARE TUBE
B	5 1/2"	7 1/2"	4 3/4"	2 1/2"

NOTE

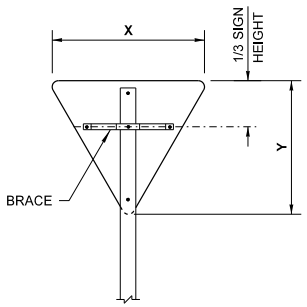
1. For sign installations on round steel posts, see **Standard Plan G-30.10, sheet 2 of 2.**



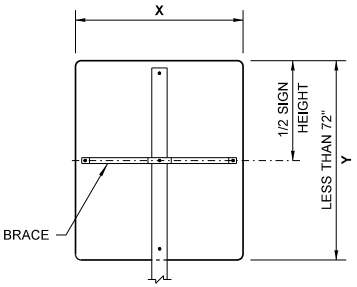
SIGN BRACE DETAIL



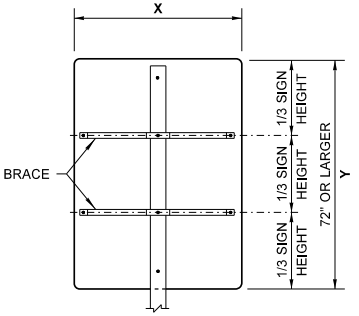
NO PASSING ZONE SIGN BRACE DETAIL



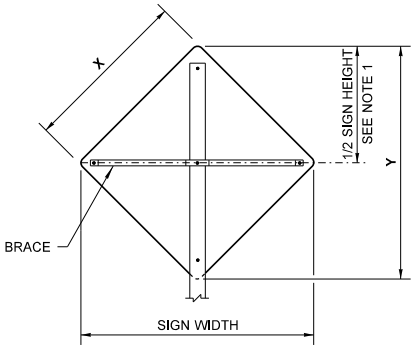
YIELD SIGN



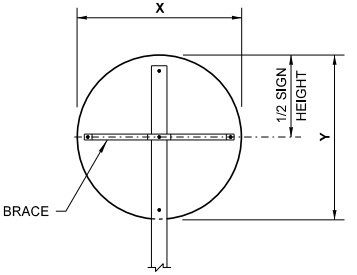
SMALL RECTANGULAR SIGN



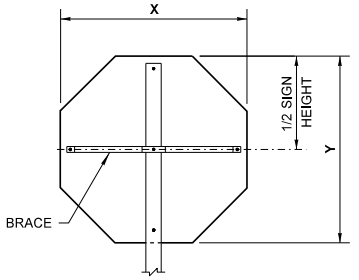
LARGE RECTANGULAR SIGN



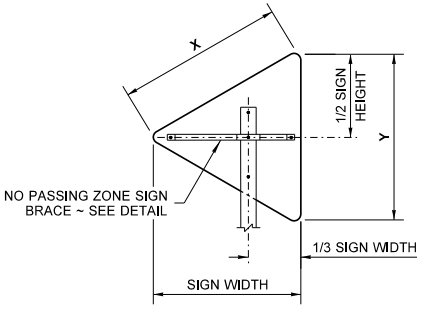
DIAMOND-SHAPED SIGN



RAILROAD WARNING SIGN



STOP SIGN



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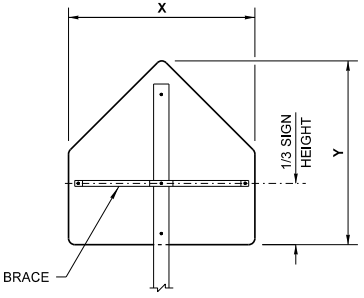
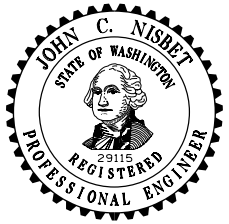


SCHOOL ZONE SIGN

SIGN BRACE PLACEMENT



Nisbet, John
Digitally signed by Nisbet, John
Date: 2018.06.27 11:42:51 -07'00'

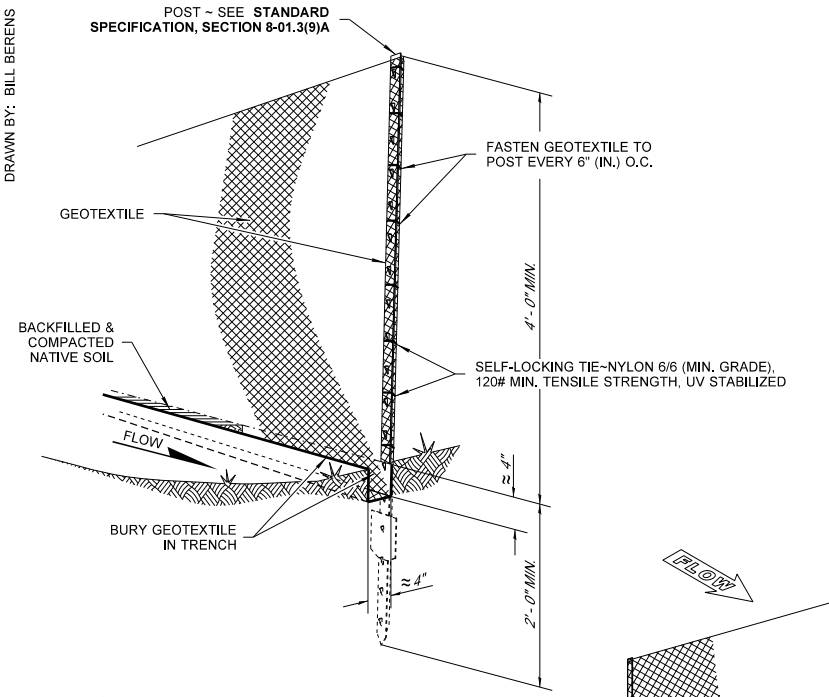
SIGN BRACING

STANDARD PLAN G-50.10-03

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 28 2018 10:38 AM
cosign
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: BILL BERENS

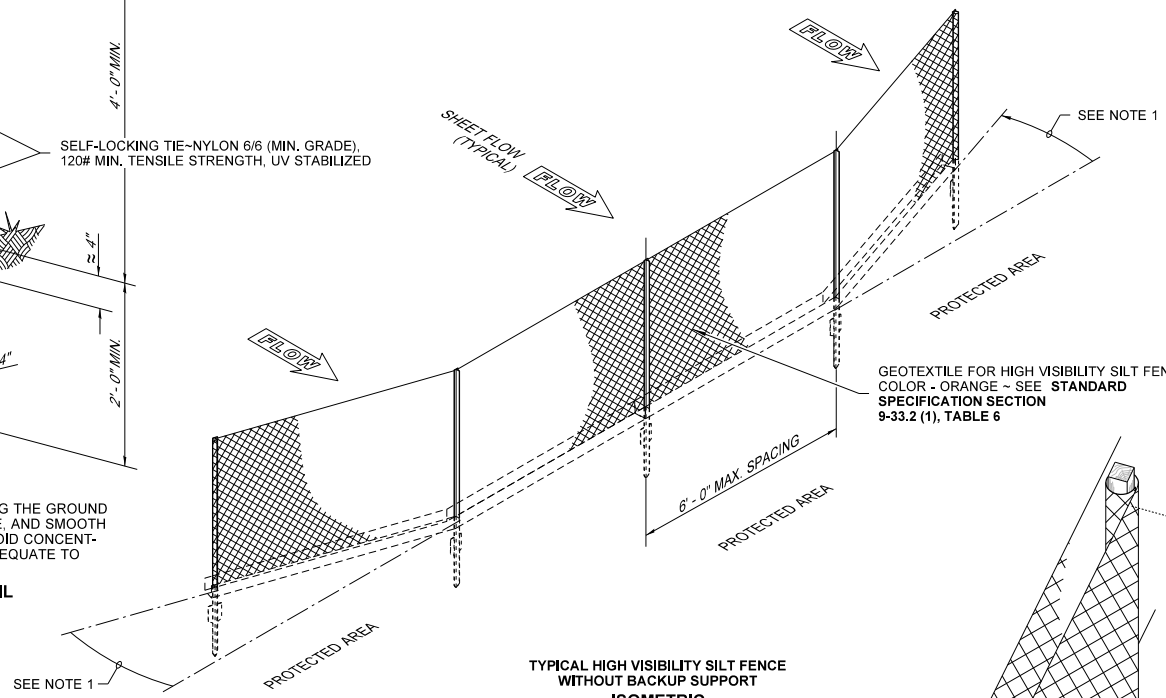


NOTE

DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

TYPICAL INSTALLATION DETAIL

(STEEL POSTS SHOWN)



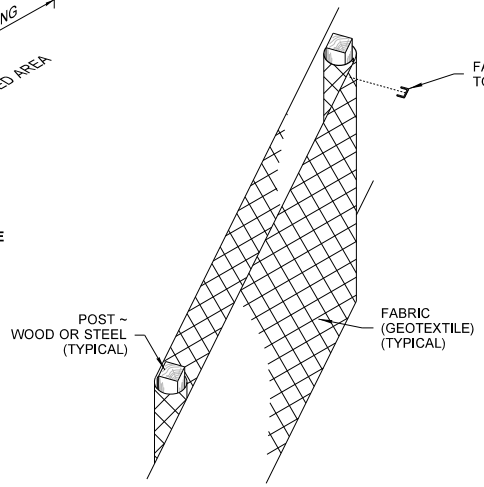
TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT

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

Hartwig, Juli
Jun 4 2019 10:48 AM
cosign

HIGH VISIBILITY SILT FENCE

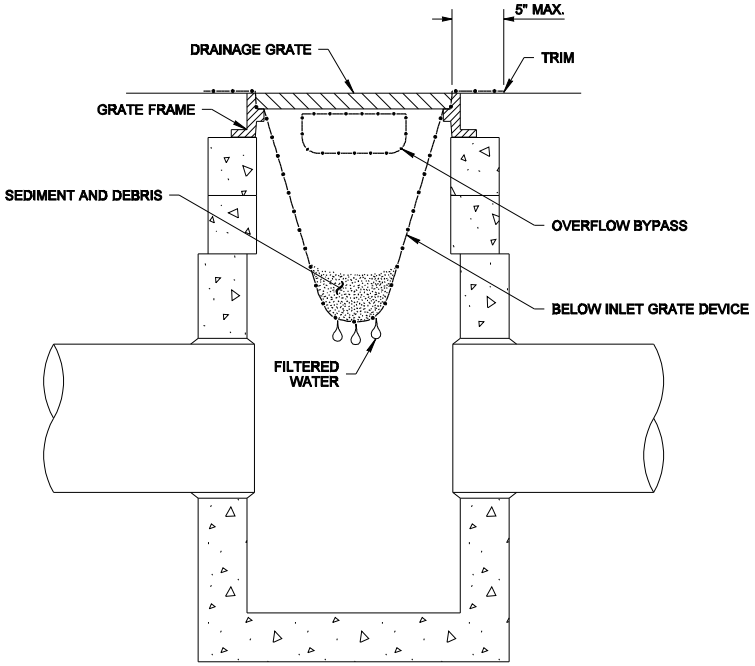
STANDARD PLAN I-30.17-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Roark, Steve
Jun 12 2019 7:42 AM
cosign
STATE DESIGN ENGINEER

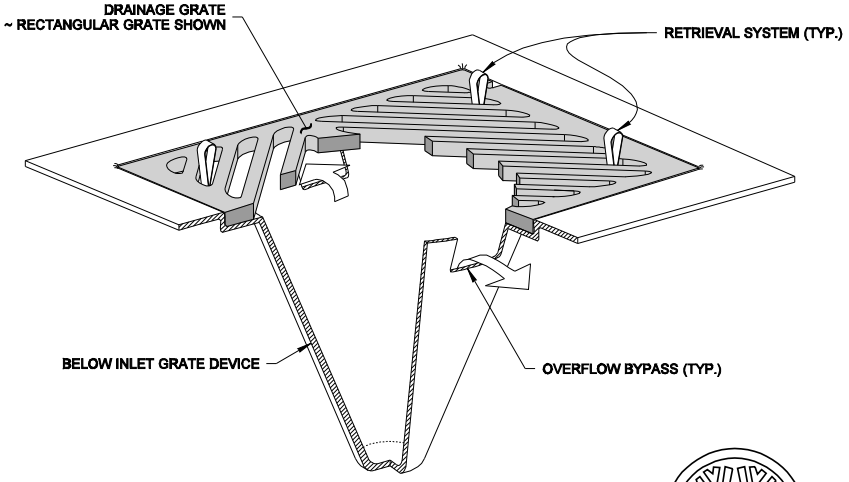
Washington State Department of Transportation

DRAWN BY: LISA CYFORD



SECTION VIEW

NOT TO SCALE



ISOMETRIC VIEW

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

MARK W. MAURER

CERTIFICATE NO. 000598

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.

STORM DRAIN INLET PROTECTION

STANDARD PLAN I-40.20-00

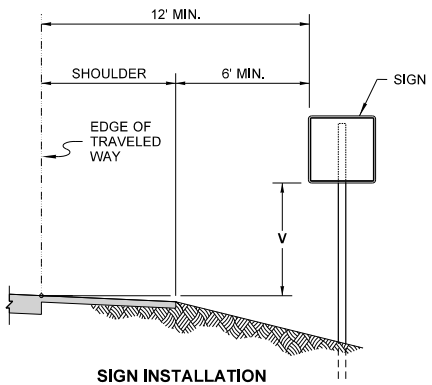
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

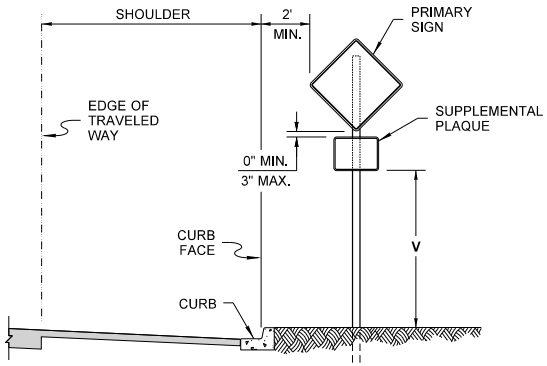
Pasco Bakotich III — STATE DESIGN ENGINEER

09-20-07 — DATE

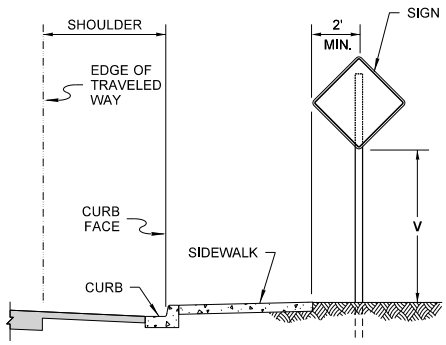
Washington State Department of Transportation



SIGN INSTALLATION (FILL SECTION)



SIGN INSTALLATION (CURB SECTION)



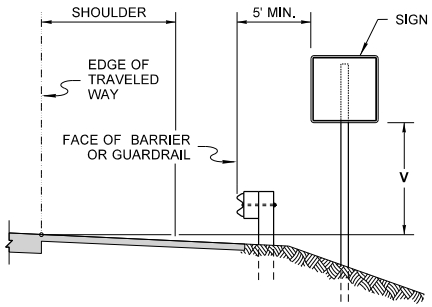
SIGN INSTALLATION (SIDEWALK AND CURB SECTION)

NOTES

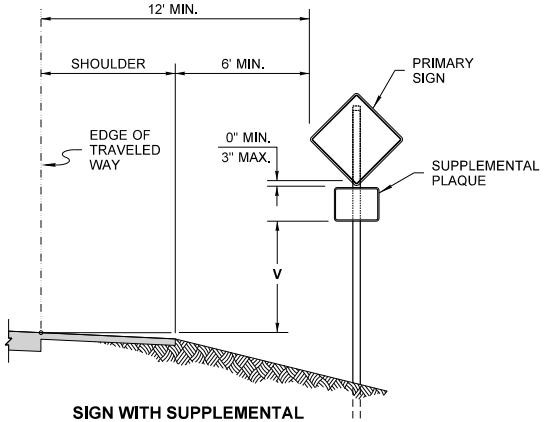
1. For sign installation details, see **Standard Plan G - series.**
2. Where it is impractical to locate a sign with the lateral offset, a minimum of 2'(ft) offset may be used. A 1'(ft) lateral offset may be used in business, commercial or residential areas.
3. The "**V**" height for signs, with an area of more than 50 square feet and two or more sign supports, is 7 feet in both rural and urban areas.

HEIGHT V		
	TO BOTTOM OF SIGN (NO SUPPLEMENTAL PLAQUE)	**TO BOTTOM OF SUPPLEMENTAL PLAQUE** (WHEN REQUIRED)
RURAL	5' MINIMUM	4' MINIMUM
URBAN	7' MINIMUM	6' MINIMUM

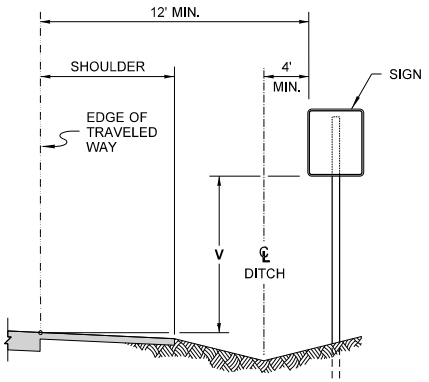
DRAWN BY: FERN LIDDELL



SIGN INSTALLATION (BEHIND TRAFFIC BARRIER)



SIGN WITH SUPPLEMENTAL PLAQUE INSTALLATION (FILL SECTION)



SIGN INSTALLATION (DITCH SECTION)

BRIAN J. WALSH
STATE OF WASHINGTON
36103
REGISTERED
PROFESSIONAL ENGINEER

2020.09.23 13:48:58 -07'00'

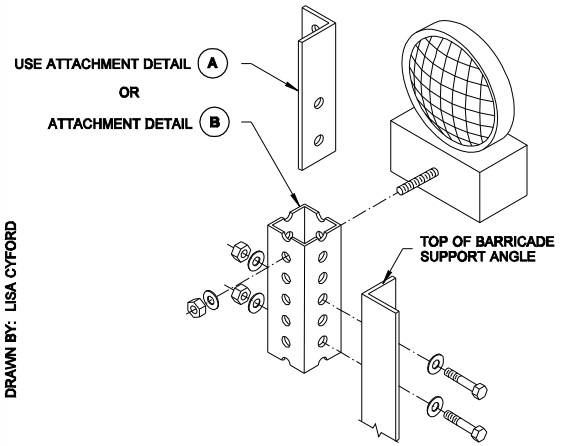
CLASS A CONSTRUCTION SIGNING INSTALLATION

STANDARD PLAN K-80.10-02

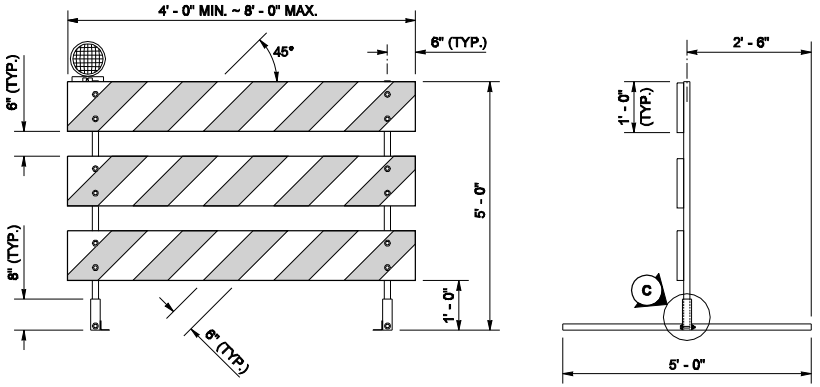
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.09.25 14:46:01 -07'00'
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: LISA CYFORD



WARNING LIGHT ATTACHMENT DETAIL



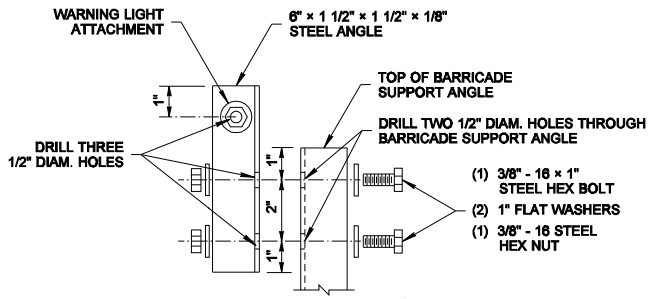
ELEVATION

SIDE

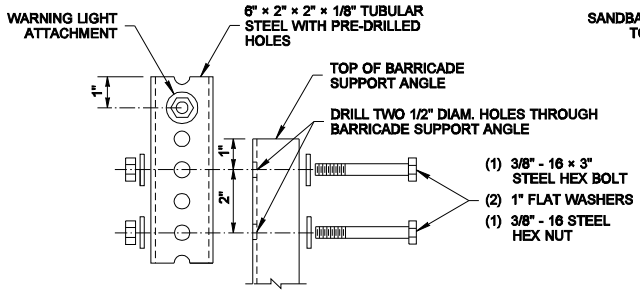
TYPE 3 BARRICADE

NOTES

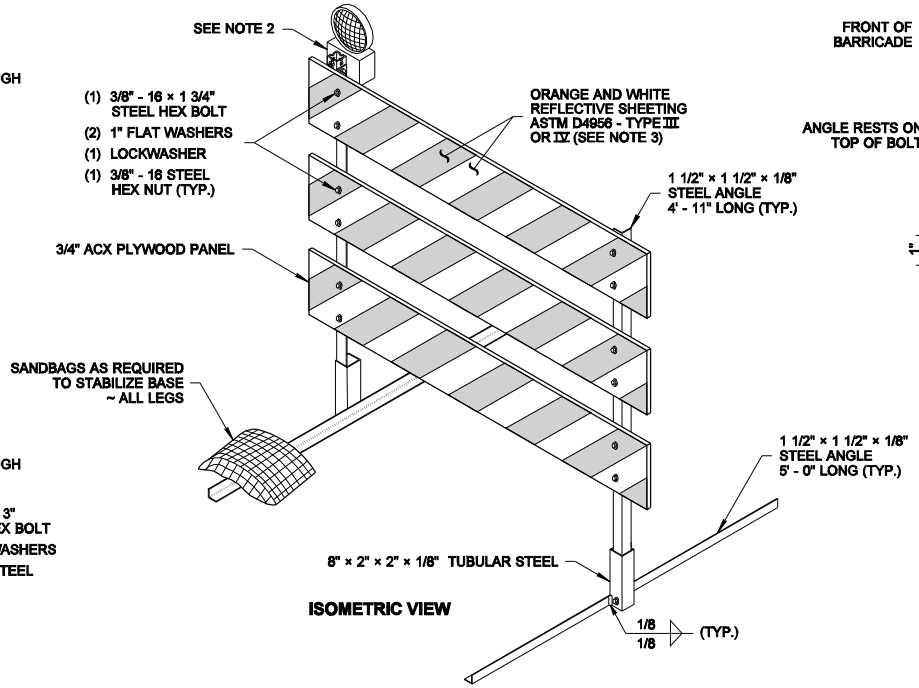
1. All fasteners may be zinc plated, galvanized or stainless steel. All steel angle and tubular steel shall be hot-rolled, high carbon steel, painted or galvanized.
2. Install one lightweight Type A Low-Intensity flashing warning light on the traffic side of the barricade. Install two Type A Low-Intensity flashing warning lights per barricade when the barricades are used to close a roadway. Attach the light to the barricade according to the light manufacturer's recommendations or use the details shown on this plan.
3. Stripes on barricade rails shall be alternating orange and white retroreflective stripes (sloping downward at an angle of 45 degrees in the direction traffic is to pass).
4. The Type 3 barricade design shown on this plan meets the crash test requirements of NCHRP 350. Alternative designs may be approved if they conform to the NCHRP 350 crash test criteria and the MUTCD.
5. When a sign is mounted on the barricade, it shall be securely bolted to at least two plywood panels. The top of the sign shall not be higher than the top panel of the barricade.
6. When sandbags are used in freezing weather, Urea fertilizer shall be mixed with the sand in a quantity to prevent the sand from freezing.



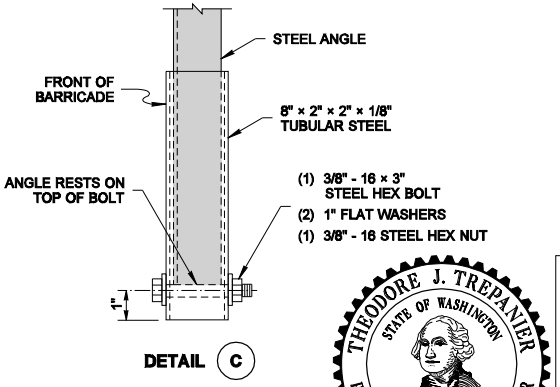
ATTACHMENT DETAIL A



ATTACHMENT DETAIL B



ISOMETRIC VIEW



DETAIL C

THEODORE J. TREPANIER
STATE OF WASHINGTON
25335
REGISTERED
PROFESSIONAL ENGINEER

EXPIRES AUGUST 9, 2007

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TYPE 3 BARRICADE

STANDARD PLAN K-80.20-00

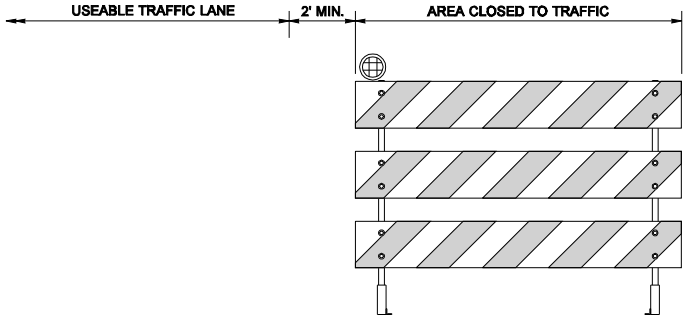
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

Kevin J. Dayton — STATE DESIGN ENGINEER — *12-20-06* — DATE

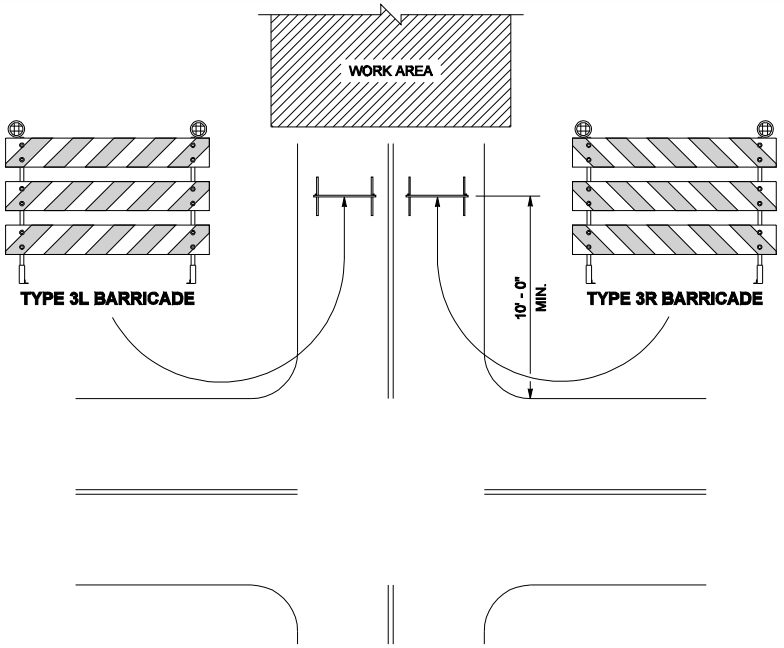
Washington State Department of Transportation

DRAWN BY: LISA CYFORD

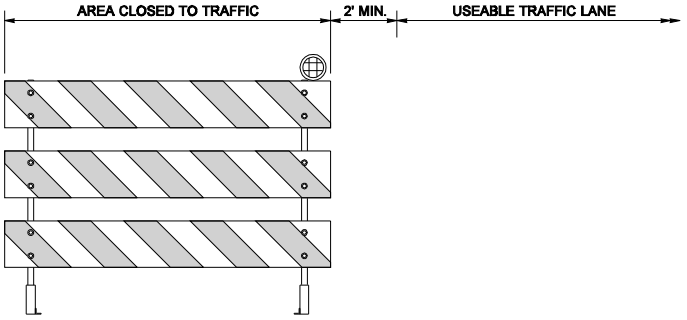


TYPE 3L BARRICADE

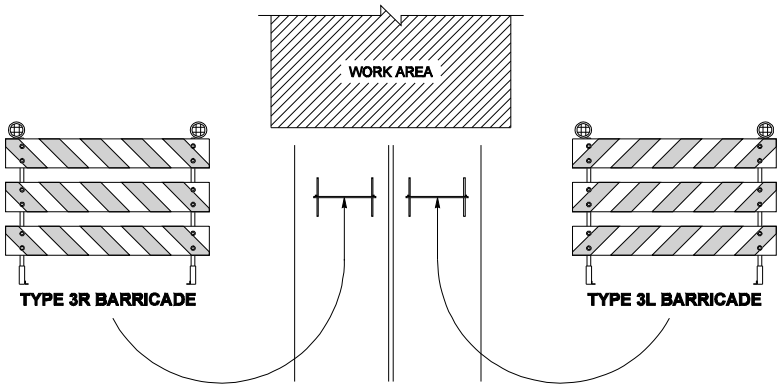
STRIPES ON THE BARRICADES SHALL SLOPE
DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS



ROAD CLOSURE AT INTERSECTION



TYPE 3R BARRICADE



ROAD CLOSURE AT OTHER LOCATIONS

BARRICADE PLACEMENT

THEODORE J. TREPANIER
STATE OF WASHINGTON
25335
REGISTERED
PROFESSIONAL ENGINEER

EXPIRES AUGUST 9, 2007

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.

TYPE 3 BARRICADE

STANDARD PLAN K-80.20-00

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Kevin J. Dayton — STATE DESIGN ENGINEER

12-20-06 — DATE

Washington State Department of Transportation

APPENDIX E
AGC AGREEMENT
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AGC-WSDOT EQUIPMENT RENTAL AGREEMENT

Effective Date: 07/16/2024 Until Further Notice

It is mutually agreed by the parties to this agreement that rental rates paid to Contractors for equipment used on force account will be established in accordance with Section 1-09.6 of the Standard Specifications and this agreement. The following rules have been agreed to:

1. General

The Rental Rate Blue Book® published by Equipment Watch™ (herein after simply referred to as Blue Book), as clarified or modified by this agreement, will be used to establish rental rates for equipment approved for use on force account work. Rate modifications for the State of Washington shall be used for all equipment covered under this agreement. Equipment rates established under the terms of this agreement will be the rates in effect for each section of the Blue Book at the time the equipment is used.

2. Rental Rate

The hourly rental rate for equipment utilized on force account shall be a combination of the following items:

a. Ownership Costs: The ownership costs shall be calculated by using the Blue Book monthly rate multiplied by the Rate Adjustment factors for age and geographic location divided by 176. The geographic location used for calculating rates shall be Washington DOT.

b. Implements and Attachments (hereafter simply referred to as attachments): will be included in the rental rate when the Engineer deems them necessary to accomplish the force account work. An approved attachment that is continuously attached and used intermittently during the work will be paid for the same duration as the host equipment. When multiple attachments are approved for use, and the attachments are being used interchangeably on the force account operation, only the one attachment having the higher rate will be paid for the same duration as the host equipment. Attachments that are continuously attached, but not used will be paid for at the standby rate in accordance with Section 3 of this agreement, unless it is more economical to remove the attachment. Removal of the attachment, when authorized by the Engineer, will be paid in accordance with Section 5 of this agreement.

c. Operating Costs: The hourly operating cost for each hour that the equipment is in use. "In use" shall mean that the equipment is operating and the presence of the equipment is necessary for the operation. The equipment shall be present and not used for other activities while the force account work is underway. Under the circumstances, the equipment shall be paid at its hourly rate plus the hourly operating cost. If the equipment is not operating, but is necessary for the operation, it may be eligible for payment as Standby Time.

3. Standby Time

Standby time shall be defined as the time during which equipment is idled, but cannot be assigned to other work on the project. Only that equipment which has been utilized for work on the force account and is expected to be utilized again on the same force account will be eligible for standby compensation. The Contractor is expected to utilize idled equipment on other work if reasonable. Standby time will only be paid if the Engineer has had an opportunity to evaluate the cost of standby versus the cost of mobilizing and demobilizing and has ordered standby.

When ordered by the Engineer, standby time shall be paid at the standby rate established by Blue Book. The operating cost shall not be included in the calculation for establishing the standby rate. Standby time will not be compensated beyond that amount which will bring the resulting total of operated time and standby time to 8 hours in any one day or 40 hours in any one week.

4. Rental Equipment

If Contactor-owned equipment is not reasonably available, the Engineer may approve the use of rental equipment.

Equipment shall be compensated according to the provisions for rented equipment in section 3 of the force account specifications. If the invoice costs of non-operated equipment do not specifically say the fuel is included, the Blue Book hourly operating cost (see section 2c) shall be added for each hour the equipment operates.

When rental equipment is used on both force account and non-force account work, payment for the equipment will be a prorated share of the invoice cost. The time period covered by the invoice shall reflect the normal practice of the renting agency, except that the time period shall not exceed one month. When calculating the prorated share, the amounts of standby time for both types of work will be considered according to the formula:

Share of Invoice to be charged to force account = **F/(F+NF)**

Where:

F =Number of hours equipment was utilized on force account including standby time.

NF= Number of hours equipment was utilized on non-force account including standby time.

5. Mobilization

Force account mobilization of equipment is defined as the preparatory work performed by the Contractor including procurement, loading and transportation of equipment that is intended for use in a force account. A pro rata adjustment will be made when the equipment is eventually used for regular Contract work in addition to the force account work. Mobilization also included the costs incurred during demobilization. The costs will be included in the appropriate sections (Labor, Equipment, Services, etc) depending on the nature of the cost. If the equipment being mobilized is hauled, payment will cover the

hauling vehicle (operated cost). In the event that equipment is transferred under its own power, the payment will cover the operated cost of the equipment plus operator costs. Move-out, or demobilization costs will provide for the return of the equipment to the location from which it was obtained. In the event that the move-out is to a different location, payment will not exceed the amount of the move-in.

If approved by the Engineer, payment will be allowed for moving equipment from work site to work site within the project after the equipment is on the job.

Charges for mechanic's time utilized in servicing equipment to ready it for use prior to moving to the project and similar charges will not be allowed.

6. Blue Book Omissions

In the event a rate has not been established for a particular piece of equipment in the Blue Book, a rate will be established, utilizing one or more of the following methods:

a. Use a rate for the most similar model found in the applicable Blue Book. Such characteristics as manufacturer, capacity, horsepower, and fuel type will be used as the basis for selecting a similar model.

b. Request a rate through the WSDOT HQ Construction Office for the rate not included in the Blue Book.

c. Utilize a rate agreed upon by the parties.

d. For equipment that is older than 20 years the oldest adjustment rate available in the Blue Book shall be used.

7. Breakdown

The Contractor shall provide reasonable maintenance efforts for equipment utilized in force account. When a breakdown occurs for any piece of equipment being used on force account work, the Contractor shall first divert idled equipment to replace it. If idled equipment is not available, the Engineer may order rental equipment.

Payment shall cease for the equipment that is broken down. Payment shall also cease for any other equipment that is idled as a result of the breakdown (there will be no standby payment). Payment for any labor that is idled as a result of the breakdown will be made in accordance with provisions of section 1 of the force account specifications, particularly as related to contractual obligations and normal practices of the Contractor.

8. Shutdown

If the Engineer orders a shutdown of any or all of the force account, the equipment idled as a result of the shutdown shall be diverted to other work. When diversion of equipment is not practical, standby time may be paid during non-operating hours as provided in Item 3 of this agreement.

The Engineer reserves the right to cease standby payment for equipment that is idled as a result of a shutdown when the shutdown is anticipated to be for an extended period of time.

No further payment shall be allowed after the date the Engineer makes this determination except as provided in Item 5 of this agreement, "Mobilization."

Standby time shall not be paid when shutdown is the result of the fault or negligence of the Contractor.

9. Small Tools

Any contractor-owned equipment listed in the Blue Book with a monthly rate of less than $100 and any other equipment with a purchase price of less than $500 shall be considered Small Tools and shall be paid by negotiation rather than using an hourly rate (except for rentals.) Any such small tool that is rented shall be paid according to the rental provisions in the Equipment section of this agreement. All other Small Tools shall be paid by agreement of the parties. After the force account work has been completed, (or more often, by agreement of the parties,) the Contractor shall promptly supply a list of small tools and equipment that have been utilized in the work. The list shall be supported by invoices or, in the event the item came from stock, by a Contractor affidavit of purchase cost. The negotiation of the Small Tools payment may include discussions of shared use with other work and of residual value, if appropriate. Once agreed upon, the small tools amount will be added to the payment amount in the Equipment section (Section 3 of the force account specification.)

10. Concurrence, Review Time

This agreement is issued after conference among representatives of the Associated General Contractors of Washington and the Washington State Department of Transportation and has the approval of both. Either party may request a review after a one-year period.

Associated General Contractors of Washington

Dave D'Hondt
Executive Vice President

Washington State Department of Transportation

Robert E. Christopher, III
Robert E. Christopher III
State Construction Engineer

APPENDIX F
AS BUILT BLOW OFF PHOTO, APPROX 1+75, LT
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Mar 23, 2022 at 3:24:52 PM

APPENDIX G
WSDOT UTILITY FRANCHISE PERMIT
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Washington State Department of Transportation

Northwest Region
15700 Dayton Avenue North
P.O. Box 330310
Seattle, WA 98133-9710
206-440-4000
TTY: 1-800-833-6388
www.wsdot.wa.gov

March 31, 2025

Kevin Renz
City of Ferndale
2095 Main Street
PO Box 936
Ferndale, WA 98248

Subject: I-5, MP 263.8 to MP 263.8
Placing water main
Franchise UF-NW-2023-023
Extension of Time to Begin Construction

Dear Kevin Renz,

Please respond with a confirmation email that you have received this email/letter and the attached utility permit or franchise.

Your request for an extension of time to begin construction of your utility is hereby approved based on the attached modified provisions. This extension expires on March 31, 2026. If construction of your utility has not started by the extended expiration date you must re-apply for a new permit.

Enclosed is your approved Utility Franchise for installing 20-inch diameter HDPE casing for a water main under I-5 at MP 263.80. Construction of your utility must begin within one calendar year and be completed within three years of the date of approval shown on the application. Please note that the Traffic Control Plan for this permit have been reviewed by the WSDOT Construction Traffic Coordination Office (CTCO) and they have determined that the work being done on local streets will not impact WSDOT highways. The Utility shall be required to coordinate with local agency who has jurisdiction in the area to review and approve traffic control plans.

Prior to any construction equipment or personnel entering WSDOT right-of-way, a pre-construction conference is required with WSDOT's inspector, Michael Gallop. The utility shall notify Michael Gallop a minimum of Five (5) working days in advance:

Michael Gallop
NW Local Agency & Development Services Office
15700 Dayton Ave. N., PO BOX 330310 MS 82-240
Seattle, WA 98133-9710
206-440-4913/ 206-940-2736
Mike.Gallop@wsdot.wa.gov

Contact WSDOT NW Region Radio at (206) 440-4490 five minutes prior to start of all traffic closures and again upon reopening to traffic. A copy of the approved Franchise must be on-site.

Please note, WSDOT invoice account number JZ2038 Group 02 will continue to be charged for personnel time for inspection activities and attendance to the pre-construction conference.

Any changes to the design, construction or installation methods, site conditions, or other issues should be brought to the attention of the contact listed in Special Provision #1.

For your convenience, here is the link to the WSDOT's Standard Specifications of Road, Bridge, and Municipal Construction: http://www.wsdot.wa.gov/Publications/Manuals/M41-10.htm

If you have any questions regarding your application, please contact Khoi Pham at 206-440-4130 or Khoi.Pham@wsdot.wa.gov.

Sincerely,

Utilities Accommodation Engineer
for

Digitally signed by Khoi Pham
Contact Info: Khoi.Pham@wsdot.wa.gov
Date: 2025.04.01 06:35:40-07'00'

Maria Mayrhofer
NW Region Utilities Manager

MM:kp
Enclosures

cc: Michael Gallop, NW Local Agency & Development Services Office
File

Washington State Department of Transportation

Utility Accommodation
(Permit or Franchise)

Utility Company: City of Ferndale

IMPORT CLEAR FORM

Permit/Franchise Number	Expiration	Charge Code*	Group
UF-NW-2023-023	11/22/2048	JZ2038	02

Date Received	Reviewed By	Region Address
09/15/2023	Andre Vuong/ Khoi Pham	Northwest: 15700 Dayton Ave. N, Shoreline, WA 98133

Application Type	Category, Impact to R/W	Fees*	Access Control
Franchise	Category 1 - High Impact	$500	Modified - LM

☐ In accepting this Franchise Amendment No. ___ to _____, Utility agrees that the General Provisions to the original Franchise shall be replaced in their entirety with the General Provisions as included with this Amendment. All other terms and conditions of the original franchise shall remain in full force and effect.

* The fees required under WAC 468-34 and RCW 47.44 are paid by the Utility to cover the basic administrative expenses incidental to the processing of this application. The applicant promises to pay any additional costs for all work associated with the review, processing and inspection for the proposed installation. Checks or money orders are to be made payable to "Washington State Department of Transportation".

Exhibits

The above-noted Permit, Franchise or Franchise Amendment is subject to the terms and conditions stated in the General Provisions, as well as all the Exhibits.

Exhibit A: Special Provisions for Permits and Franchises	Page(s) 1-5 of 5
Exhibit B: Utility Facility Description (UFD)	Page(s) 1 of 1
Exhibit C: Plan Sheets/Maps	Page(s) 1-4 of 4
Exhibit D: Traffic Control Plan	Page(s) 1 of 1
Exhibit E: Pre-Construction Notification	Page(s) 1 of 1
Exhibit F: Maintenance Notification	Page(s) 1 of 1
Exhibit G: N/A	Page(s)
Exhibit H: N/A	Page(s)

Vicinity Maps

State Route: 5 ML Begin Milepost: 263.80 Link End Milepost: 263.80 Link

Departmental Approval

WSDOT Authorized Signatory	Printed Name and Job Title	Date Issued
ASSISTANT NW REGION UTILITIES MANAGER	FOR/ Maria Mayrhofer - NW Region Utilities Manager	11/22/2023

DOT Form 224-695
Revised 10/2019

Washington State Department of Transportation

Utility Accommodation Application
(Permit or Franchise)

Utility Contact Information (Applicant)

Utility Company	Utility Contact Name
City of Ferndale	Kevin Renz

Email	Phone (Office/Cell/Voicemail)
kevinrenz@cityofferndale.org	360-685-2376

Location (www.snagmp.com)

State Route	Milepost Begin	Milepost End	County
Interstate 5	263.8	263.8	Whatcom

Installation

Please Check One

- ☐ Power
- ☐ Sewer
- ☑ Water
- ☐ Telecommunication
- ☐ Gas
- ☐ Other _____

Please Check All That Apply

- ☑ Buried
- ☐ Aerial
- ☐ Surface Feature (Pole, ped, vault)
- ☐ Attached to a bridge/structure

Submit the Following Documentation:

Utility Facility Description (UFD)

Plan Sheets

For Additional Documents Applicable to your work, see Submitting a Utility Accommodation Application Webpage (Link)

Describe Installation Type (Briefly explain)

A 20" diameter HDPE will be installed. The casing will be installed from outside of the ROW on the east and west sides of the project.

Anticipated Construction Start Date: TBD	Project Duration: 10-15 Working Days

Billing Information*

Contact Name		
Kevin Renz		
Street		
2095 Main Street, PO Box 936		
City	**State**	**Zip + 4**
Ferndale	WA	98248-9468

Phone (Office/Cell/Voicemail)	Email
360-685-2376	kevinrenz@cityofferndale.org
Federal Tax ID	**Applicant Reference Work Order *(optional)***
91-6001429	

Utility Authorized Signatory

Signature	Printed Name & Title/Owner	Date
	KEVIN RENZ PUBLIC WORKS DIR	9/21/23

The Authorized Signature indicates the General Provisions, as provided, have been read and are agreed to by the Utility. The Utility understands, based on the proposed installation, applicable special provisions will be provided at issuance of your Permit or Franchise.

* WSDOT has the authority to invoice the Utility for all work associated with the review, processing and inspection of the proposed installation. The applicant promises to pay any additional costs, in addition to the fees, incurred by WSDOT in accordance with WAC 468-34 and RCW 47.44.

Supplemental Contact Information of Authorized Agent if NOT the Utility

Company Name	Contact Name
Reichhardt & Ebe	Luis Ponce

Email	Phone (Office/Cell/Voicemail)
luis@recivil.com	(360) 354-3687

Washington State Department of Transportation

General Provisions for the Utility Accommodation Application

This Permit or Franchise is issued pursuant to the terms of RCW 47.32, RCW 47.44, and WAC 468-34, and amendments thereto. Renewal of a Franchise must be by application prior to expiration of this Franchise as required by RCW 47.44.020(3).

1. A copy of this Permit or Franchise must be on the job site, protected from the elements, at all times during any construction authorized by this Permit or Franchise.

2. The Utility agrees to pay the reasonable costs for investigating, handling, and granting the Permit or Franchise, including, but not limited to basic overhead charges and for providing an inspector during construction and/or maintenance of the Utility's facilities. Further, the Utility agrees that it shall be responsible for and pay WSDOT's expended direct and indirect costs associated with applicable provisions of the Permit or Franchise.
   (a) WSDOT will assign a reimbursable account to the Utility as a means of invoicing the Utility for the costs associated with this Permit or Franchise.
   (b) WSDOT will invoice the Utility and the Utility agrees to pay WSDOT within thirty (30) calendar days of receipt of an invoice.
   (c) The Utility agrees that it shall be responsible to maintain any bond or surety documentation with WSDOT according to WAC 468-34.

3. Upon approval of this Permit or Franchise, the Utility shall diligently proceed with the Work and comply with all General and Special Provisions herein. Construction of facilities proposed under this Permit or Franchise shall begin within one (1) year and must be completed within three (3) years from date of WSDOT approval. "Work" under this Permit or Franchise shall mean construction, operation, and maintenance of the Utility's facilities as authorized herein.

4. The Utility shall notify WSDOT Representative in Special Provision 1 of the name, address, and telephone number of its contractor when Work outlined herein is going to be performed with other than its own forces. When the Utility uses a contractor, an authorized representative of the Utility shall be present at all times unless otherwise agreed to by WSDOT Representative. A list of authorized representatives shall be submitted prior to the construction start date. (Authorized representatives are defined as persons having signatory authority for the Utility and or the authority to control the Work as needed for any issues identified by WSDOT.)

5. The Utility agrees to schedule and perform its Work in such a manner as not to delay WSDOT's contractor's work when WSDOT has a contractor performing work in the vicinity of the Utility's Work.

6. All contact between WSDOT and the Utility's contractor shall be through the Utility representative. Where the Utility chooses to perform the Work with its own forces, it may elect to appoint one of its own employees engaged in the Work as its representative. The Utility, at its own expense, shall adequately police and supervise all Work performed by itself, its contractor, subcontractor, agent, and/or others, so as not to endanger or injure any person or property.

7. In the event any milepost, fence, or guardrail is located within the limits of the Utility's Work and will be disturbed during Utility Work, the Utility shall submit a plan indicating impacts to these highway facilities to WSDOT's Representative for approval prior to Utility Work. Utility agrees to carefully remove these highway facilities prior to Utility Work and reset or replace these highway facilities after the Utility Work, to WSDOT's sole satisfaction and at the sole cost of the Utility. The Utility agrees that all highway signs and traffic control devices shall not be removed or disturbed during Utility Work.

8. The Utility agrees that all Work shall be done to the satisfaction of WSDOT. All material and workmanship shall conform to WSDOT's Standard Specifications for Road, Bridge, and Municipal Construction, current edition, and amendments thereto, and shall be subject to WSDOT inspection. All WSDOT acceptance and inspections are solely for the benefit of WSDOT and not for the benefit of the Utility, the Utility's contractor (if any), or any third party. The Utility agrees that it shall pay all WSDOT inspection costs in accordance with General Provision 2. The Utility shall perform in a timely manner all Utility work, to avoid highway project impacts or delays and in such manner as will cause the least disruption of traffic or interference with WSDOT's continued operation and/or maintenance of the highway.

9. The Utility shall comply with the Manual on Uniform Traffic Control Devices for Streets and Highways (Federal Highway Administration) and the State of Washington modifications thereto (chapter 468-95 WAC) while it performs the Work. If WSDOT requires, the Utility shall submit a signing and traffic control plan to WSDOT's Representative for approval prior to construction or maintenance Work. No lane closures shall be allowed except as approved by WSDOT's representative. Approvals may cause revision of Special Provisions of this Permit or Franchise, including hours of operation.

10. This Permit or Franchise may not be amended or modified without WSDOT's prior review and approval. Upon completion of the Work, the Utility shall provide a written notice of completion of the Work to WSDOT's Representative within ten (10) calendar days of the completion of the Work so that WSDOT may make its final inspection. Further, the Utility shall provide the Region Utilities Engineer with detailed as-built drawing within ninety (90) calendar days of Work completion, if the originally approved Permit or Franchise construction plans have been revised during the course of construction or upon request from the Region Utilities Engineer.

11. If WSDOT, at its sole discretion, shall determine that any or all of the Utility's facilities must be modified, removed from, or relocated within the state-owned highway right of way as necessary, incidental, or convenient for the construction, alteration, improvement, repair, relocation, or maintenance of the state highway, or for the safety of the traveling public, the Utility, its successors and assigns, shall, at its sole cost and expense, upon written notice by WSDOT, modify, relocate, or remove any or all of its facilities within or from the state-owned highway right of way as required by WSDOT. The Utility shall perform in a timely manner all facility modifications, relocations, and/or removals as WSDOT directs, to avoid highway project impacts or delays and in such manner as will cause the least disruption of traffic or interference with WSDOT's continued operation and/or maintenance of the highway. The Utility agrees it shall be solely responsible for any claims, damages, or any other associated project costs that are a result of the Utility's failure to modify, remove and/or relocate its facilities in timely manner as directed by WSDOT.

12. Should the Utility fail or refuse to comply with WSDOT's direction, pursuant to General Provision 11, to modify, remove, or relocate any Utility facility, WSDOT may undertake and perform any modification, removal, or relocation of the Utility facility that WSDOT, in its sole discretion, deems necessary. The Utility agrees to pay all of WSDOT's costs for performing this work, in accordance with General Provision 2.

13. If WSDOT determines in good faith that emergency maintenance work on the Utility's facility is needed to (a) protect any aspect of the state highway right of way, or (b) secure the safety of the traveling public due to a failure of the Utility's facility, WSDOT may perform the necessary work without the Utility's prior approval, and the Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with General Provision 2. WSDOT will notify the Utility of the emergency work performed as soon as practicable.

14. WSDOT may amend, revoke, or cancel this Permit or Franchise at any time by giving written notice to the Utility. If the Permit or Franchise is amended, the Utility will have thirty (30) calendar days to modify the facility as the Permit or Franchise amendment(s) require. If the facility modifications cannot be made within thirty (30) calendar days, the Utility shall respond to WSDOT, in writing, as to when the facility modifications can be made. If the Permit or Franchise is revoked or canceled, the Utility shall immediately remove all facilities from the right of way. Any facilities remaining upon the right of way thirty (30) calendar days after written notice of Permit or Franchise revocation or cancellation may be removed by WSDOT at the expense of the Utility. The Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with General Provision 2.

15. Should the Utility breach any of the conditions and requirements of this Permit or Franchise, or should the Utility fail to proceed with due diligence and in good faith with the Work as authorized by this Permit or Franchise, WSDOT may cancel or revoke the Permit or Franchise upon thirty (30) calendar days written notice to the Utility.

16. The Utility shall not excavate or place any obstacle within the state-owned highway right of way in such a manner as to interfere with WSDOT's construction, operation, and maintenance of the state- owned highway right of way or the public's travel thereon without first receiving WSDOT's written authorization.

17. The Utility agrees to maintain, at its sole expense, its facilities authorized by this Permit or Franchise in a condition satisfactory to WSDOT.

18. The Utility agrees that it is financially responsible to WSDOT for all necessary expenses incurred in inspecting the construction and restoring the highway pavement or related transportation equipment or facilities to a permanent condition suitable for travel as determined by WSDOT, as well as financially responsible to WSDOT for trenching work not completed and for compensating WSDOT for the loss of useful pavement life caused by trenching as required by RCW 47.44.020.

19. Upon completion of all Work, the Utility shall immediately remove all rubbish and debris from the state-owned highway right of way, leaving the state-owned highway right of way in a neat, presentable, and safe condition to WSDOT's satisfaction. Any clean up, or any necessary slope treatment, surface restoration, or protection of the state-owned right of way, not done within one (1) week (seven consecutive days) of Work completion, unless otherwise negotiated in writing, will be done by WSDOT at the expense of the Utility. The Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with General Provision 2.

20. For the benefit and safety of the traveling public, the Utility voluntarily agrees to permit WSDOT to attach and maintain upon any Utility facility under this Permit or Franchise any required traffic control devices, such as traffic signals, luminaires, and overhead suspended signs, when the use of such devices or attachments does not interfere with the use for which the facility was constructed. WSDOT shall bear the cost of attachment and maintenance of such traffic control devices, including the expended cost of any extra Utility infrastructure construction beyond what is necessary for the Utility's facility; such extra cost to be jointly determined by WSDOT and the Utility. WSDOT shall not share in the Utility facilities' cost of installation, operation, or maintenance of any of the facilities installed under this Permit or Franchise.

21. The Utility shall comply with WSDOT's Temporary Erosion and Sediment Control Manual (M 3103.01) and any revisions thereto, for erosion control and/or to mitigate any erosion occurring as a result of the Work. If the Utility Work performed under this Permit alters, modifies, changes, or interferes in any way with the drainage of the state-owned highway right of way, the Utility shall, at its own expense, make all corrections and/or provisions WSDOT requires to fix and restore the state-owned right of way drainage to its original condition and function prior to the Utility's Work. Any flows from the Utility shall not exceed the flows discharging to WSDOT drainage prior to the new work. Any flows discharged to state- owned highway right of way shall meet the requirements for quantity and water quality according to the current version Highway Runoff Manual (M 31-16). Should the Utility not make the required drainage restoration, WSDOT reserves the right to make such changes as necessary to restore the original drainage function at the sole cost of the Utility, and the Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with Stormwater Discharge General Provision 2.

22. The Utility shall be responsible for securing all necessary permits, including but not limited to, federal, state, and local regulatory, tribal, environmental, archeological, and railroad permits and permits from the Washington State Department of Ecology, the Washington State Department of Fish and Wildlife, and/or the U.S. Army Corps of Engineers prior to beginning the Work authorized by this Permit or Franchise. The Utility shall be responsible for mitigation measures where wetlands have been disturbed and agrees that it is responsible for any fines imposed for noncompliance with the permit(s) conditions or for failure to obtain the required permits. In addition, the Utility, on behalf of itself and its contractors, officers, officials, employees, and agents, agrees to indemnify, hold harmless, and defend, at its sole cost and expense, WSDOT and its officers, officials, employees, and agents from any and all fines, costs, claims, judgments, and/or awards of damages (to regulatory agencies, persons, and/or property), arising out of, or in any way resulting from, the Utility's failure to (1) obtain any required permit for the Utility Work or (2) comply with permit conditions. Further, the Utility shall be responsible for compliance with all federal, state, and local laws, regulations.

23. For any of the Utility's Work that requires permit coverage under the "CONSTRUCTION STORMWATER GENERAL PERMIT – National Pollutant Discharge Elimination System and State Waste Discharge General Permit for Stormwater Discharges Associated with Construction Activity" (Construction Stormwater General Permit), the Utility shall obtain said permit coverage and shall comply with all requirements of the Construction Stormwater General Permit. Upon WSDOT's request, the Utility shall provide a copy of the Construction Stormwater General Permit. In addition, the Utility, on behalf of itself and its contractors, officers, officials, employees, and agents, agrees to indemnify, hold harmless, and defend, at its sole cost and expense, WSDOT and its officers, officials, employees, and agents from any and all fines, costs, claims, judgments, and/or awards of damages (to regulatory agencies, persons, and/or property), arising out of, or in any way resulting from, the Utility's failure to (1) obtain coverage under the Construction Stormwater General Permit for Utility Work or (2) comply with the Construction Stormwater General Permit requirements.

24. This Permit or Franchise does not authorize the Utility, or its employees, contractors, or agents, any right to cut, spray, retard, remove, destroy, disfigure, or in any way modify the physical condition of any vegetative material located on the state-owned highway right of way. Should the Utility anticipate that its Work will alter the appearance of the state-owned highway right of way vegetation, the Utility shall notify WSDOT Representative to obtain WSDOT's prior written approval of the Utility's proposed work. If WSDOT permits the Utility to modify the state-owned highway right of way vegetation, it agrees that any vegetation cutting and/or trimming activities shall be conducted in such a manner that the state-owned highway right of way vegetation appearance will not be damaged. Should the Utility damage the appearance of the state-owned highway right of way vegetation without WSDOT's prior written approval, the Utility is subject to penalties provided for in RCWs 47.40.070, 47.40.080, and 4.24.630, as applicable.

25. The Utility hereby certifies that its facilities described in this Permit or Franchise are (1) in compliance with the Control Zone Guidelines, or (2) for a franchise consolidation or renewal, a mitigation plan has been submitted and approved for any existing Location I or Location II utility objects to be corrected in accordance with the Control Zone Guidelines, pursuant to Chapter 9 of WSDOT's Utilities Manual (M 22-87) and any revisions thereto.

26. The Utility shall not assign or transfer this Permit or Franchise without WSDOT's prior written approval. The Utility understands that any assignment or transfer requires the assignee or transferee to have the means to assume all obligations, duties, and liabilities of the terms and conditions of this Permit or Franchise, and the Utility will advise the assignee or transferee of its obligation to apply for an updated or replacement Permit or Franchise. If WSDOT does not approve the assignment or transfer, this Permit or Franchise shall automatically terminate, and the facility occupying state-owned highway right of way shall be subject to the terms of RCW 47.44.060.

27. The Utility, its successors and assigns, shall indemnify, defend at its sole cost and expense, and hold harmless the State of Washington, its officers and employees, from all claims, demands, damages (both to persons and/or property), expenses, regulatory fines, and/or suits that (1) arise out of or are incident to any acts or omissions of the Utility, its agents, contractors, and/or employees, in the use of the state-owned highway right of way as authorized by the terms and conditions of this Permit or Franchise, or (2) are caused by the breach of any of the terms or conditions of this Permit or Franchise by the Utility, its successors and assigns, and its contractors, agents, and/or employees. The Utility, its successors and assigns, shall not be required to indemnify, defend, or hold harmless the State of Washington, its officers and/or employees, if the claim, suit, or action for damages (both to persons and/or property) is caused by the acts or omissions of the State of Washington, its officers and/or employees; provided that, if such claims, suits, or actions result from the concurrent negligence of (a) the State of Washington, its officers and/or employees, and (b) the Utility, its agents, contractors, and/or employees, or involves those actions covered by RCW 4.24.115, the indemnity provisions provided herein shall be valid and enforceable only to the extent of the acts or omissions of the Utility, its agents, contractors, and/or employees.

28. The Utility agrees that its obligations under this Permit or Franchise extend to any claim, demand, and/or cause of action brought by, or on behalf of, any of its employees or agents while performing Work under this Permit or Franchise while located on state-owned highway right of way. For this purpose, the Utility, by MUTUAL NEGOTIATION, hereby waives, with respect to the State of Washington only, any immunity that would otherwise be available to it against such claims under the Industrial Insurance provisions in chapter 51.12 RCW.

29. The indemnification and waiver provided for in General Provisions 27 and 28 shall survive the termination of this Permit or Franchise.

30. Any action for damages against the State of Washington, its agents, contractors, and/or employees, arising out of damages to a utility or other facility located on state-owned highway right of way, shall be subject to the provisions and limitations of RCW 47.44.150.

31. This Permit or Franchise shall not be deemed or held to be an exclusive one and shall not prohibit WSDOT from granting rights of like or other nature to other public or private utilities, nor shall it prevent WSDOT from using any of the state-owned highway right of way or other properties for transportation purposes, or affect WSDOT's right to full supervision and control over all or any part of the state-owned highway right of way or properties, none of which is hereby surrendered. Further, WSDOT reserves the exclusive right to require that all utility facilities be subject to joint trenching and occupancy.

32. The Utility shall completely remove all Deactivated Facilities (as defined in WSDOT Utilities Manual M 22-87), unless agreed upon in writing by WSDOT, indicated in Special Provision 12. Any Deactivated facilities left within the state owned right of way shall remain owned by the Utility, who shall continue to bear all responsibility for any future costs incurred by WSDOT including for removal of the Deactivated facilities.

33. The Utility agrees that, in the event any construction and/or maintenance of the highway facility becomes necessary within the proximity of the utility installation, it is expressly understood that, upon request from WSDOT's Representative, the Utility will promptly identify and locate by suitable field markings (including test hole/pot hole), any and all of its underground facilities so that WSDOT or its contractor can be fully apprised at all times of their precise locations.

34. During non-working hours equipment and materials shall not be located or stored within the work zone clear zone (WZCZ) area. Minimum WZCZ distances will be measured from the edge of the traveled way (the portion of the roadway intended for the movement of vehicles, exclusive of shoulders and lanes for parking, turning, and storage for turning) and will be determined as follows:

Minimum Work Zone Clear Zone Distance

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

Washington State Department of Transportation

Special Provisions for Utility Accommodation Application

Applicable provisions are denoted by (✓)

☑ 1. All Work related to this Utility application must be authorized in advance by the following Washington State Department of Transportation (WSDOT) Representative(s):

Name: Michael Gallop
Title: WSDOT Inspector
Street: 15700 Dayton Ave. N.
City: Seattle
State: WA Zip: 98133-9710
Phone: 206-440-4913 Cell: 206-940-2736
Email/Fax: Mike.Gallop@wsdot.wa.gov

Name: _____
Title: _____
Street: _____
City: _____
State: _____ Zip: _____
Phone: _____ Cell: _____
Email/Fax: _____

2. The Utility must complete the following requirements prior to authorization by WSDOT to perform Work:

☑ a. The Utility shall notify in writing the identified WSDOT Representative(s) at least Five (5) working days (Monday through Friday excluding any holidays). The Utility may not perform Work until authorized by the WSDOT Representative(s) in Special Provision 1.

☑ b. A pre-construction conference shall be held with all pertinent representatives, as identified by the Utility, and agreed to by WSDOT. The Utility shall give Five (5) working days (Monday through Friday excluding any holidays) notice to WSDOT's Representative(s) (prior to the pre-construction conference). A pre-construction conference is not an authorization for the Utility to proceed with Work.

☐ 3. Work within the state-owned highway right of way shall be restricted to _____.
No Work shall be allowed on Saturday, Sunday, or holidays, without prior approval by WSDOT. In addition, the Utility shall be off the highway by noon the day prior to a holiday unless authorized by WSDOT. If a holiday falls on a Saturday, the preceding Friday is counted as the holiday, and the Utility shall be off the highway by noon Thursday. When the Holiday falls on a Monday the Utility shall be off the right of way at noon on the preceding Friday. Nothing in this section shall limit the authority of WSDOT to further restrict work within state-owned highway right of way at WSDOT's discretion. The hours of closure are subject to change if required by WSDOT.

☑ 4. The Utility shall not disturb, remove, or destroy any existing Survey Monument before obtaining a Permit from the Washington State Department of Natural Resources (RCW 58.24.040). During the Work, upon discovery, unauthorized damage, or unauthorized alteration of a monument or right of way marker, the Utility shall cease Work in that area and immediately notify the WSDOT Representative listed in Special Provision Number 1, or the Region Right-of-Way and Survey Manager listed below. Work in that area shall not resume until authorized by the WSDOT Representative.

Name: _____

Phone: _____

Email: _____

The Utility agrees to pay all WSDOT costs to perform monument or right of way marker work, as provided in this provision, in accordance with General Provision 2.

☑ 5. In the event that during the course of this project an inadvertent discovery of historical/archeological objects, human remains, or a bone/bones of uncertain origin is made, the Utility shall immediately cease operations and contact WSDOT Representative in Special Provision 1 and WSDOT Archaeologist:

Name: Jason Cooper

Phone: 206-487-0604

Email: Jason.Cooper@wsdot.wa.gov

Determination of necessary follow-up actions or the ability to continue work shall be at the sole discretion of the WSDOT.

☐ 6. Construction of this facility will not be permitted from the shoulders, traffic lanes, and/or ramps of SR _____ All construction access will be from _____.

BOND AND INSURANCE COVERAGE

☑ 7. The Utility has provided bond coverage for the Work under this Permit or Franchise by furnishing a blanket surety bond held by WSDOT at the WSDOT Headquarters Utilities in Olympia, WA.

☐ 8. The Utility or its contractor shall provide an individual surety bond to WSDOT in the amount of $ _____, written by a surety company authorized to do business in the State of Washington, or shall set up a WSDOT approved escrow account prior to the start of construction to cover the Work under this Permit or Franchise. The surety bond or escrow account shall remain in force for a period of one (1) year after the written notice of completion of the Work (as provided in General Provision 11), except that when the Work impacts the paved highway (open cuts, bores or damage to the highway surface), the Utility shall be required to maintain the surety bond or escrow account for a period of two (2) years after the notice of completion.

☐ 9. When the Utility chooses to perform the Work with other than its own forces and requires its contractor to provide a surety bond to WSDOT before performing any Work to ensure compliance with all of the terms and conditions of this Permit or Franchise, the bond shall be in the amount of $ _____, written by a surety company authorized to do business in the State of Washington and shall remain in force until all Work under this Permit or Franchise has been completed, and the Utility's contractor has restored any affected WSDOT property and right of way to the satisfaction of WSDOT.

☑ 10. The Utility shall have sufficient insurance coverage when performing any Work within state-owned highway right of way, as follows:

(a) Commercial General Liability covering the risks of bodily injury (including death), property damage, and personal injury, including coverage for contractual liability, with a limit of not less than $3 million per occurrence and in the aggregate.

(b) Business Automobile Liability (owned, hired, or non-owned) covering the risks of bodily injury (including death) and property damage, including coverage for contractual liability, with a limit of not less than $1 million per accident.

(c) Employers Liability covering the risks of Utility's employees' bodily injury by accident or disease, with limits of not less than $1 million per accident for bodily injury by accident and $1 million per employee for bodily injury by disease.

Such insurance policies or related certificates of insurance shall name the Washington State Department of Transportation as an additional insured on all general liability, automobile liability, employers' liability, and excess policies. A forty-five (45) calendar day written notice shall be given to WSDOT prior to termination of or any material change to the policy(ies) as such relate(s) to this Permit or Franchise. The Utility shall provide proof of insurance upon request to the WSDOT Representative(s) identified in Special Provision 1.

☑ 11. If the Utility is a city or county, they shall have sufficient insurance coverage through a Risk Pool or is self-insured, to comply with the insurance terms and conditions of this Permit or Franchise. The city or county shall provide proof of insurance upon request to the WSDOT Representative(s) identified in Special Provision 1.

UNDERGROUND FACILITIES

☑ 12. Deactivated facilities left within the state owned right of way shall remain owned by the Utility, who shall continue to bear any and all responsibility for any future costs or impacts related to the Deactivated facilities if required by WSDOT in its sole discretion.

☑ 13. For underground facilities, markers shall be placed at both ends of a crossing, and at all changes in offset distance from right of way line or centerline of the highway and placed approximately every 500 feet for longitudinal installations. Marker information as a minimum shall include owner name, pipeline or cable identification and station, and telephone number or other means to contact a local office. Markers must follow WSDOTs Standard Specifications for Road, Bridge, and Municipal Construction Manual M 41-10, Division 9 (9-17 Flexible Guideposts), not create a safety hazard, and all markers shall be placed and maintained so as to minimize interference with WSDOT maintenance operations. It is the Utility's responsibility to maintain its markers. Maintenance of markers includes but is not limited to update of Utility's name (if changed) or Utility's successors' or assigns' contact information, and replacement of damaged or missing markers.

☑ 14. All underground facilities shall include a component by which the utility can be located with conventional methods, provided that for all installations in trenches, the Utility shall install detector tape approximately 12 inches above the underground facility. The tape shall conform to the standards of the American Public Works Association Uniform Color Code.

☑ 15. Utility facilities or casings for facilities crossing under highways surfaced with oil, asphalt concrete pavement, or cement concrete pavement shall be by trenchless construction, using the appropriate equipment to jack, bore, or auger the facility through the highway prism with a minimum depth of 5 feet along any point from the top of facility to the lowest point of the finished highway grade, at a minimum of 3.5 feet depth from bottom of ditch/toe of slope to top of facility or casing.

☑ 16. If PVC or HDPE casings are utilized for crossings, they shall be greater than Schedule 80 or equivalent or as approved by WSDOT.

☑ 17. Casing requirements (WAC 468-34-210) for utilities are specified individually or in whole on the attached exhibits. Any variances to these casing requirements must be approved by WSDOT, in writing prior to installation.

☐ 18. Pipeline installation shall meet the provisions of chapter 480-93 WAC, Gas Companies- Safety, and amendments thereto.

☐ 19. Open trenching (cutting a trench for direct placement of a utility that does not include cutting an existing paved highway surface) will only be allowed at the locations identified on the plan sheets and/or listed on Exhibit(s) _____, with restoration to be performed as noted on the attached "Open Trench Detail", Exhibit _____.

☐ 20. Open cuts (cutting a trench for direct placement of a utility that does include cutting the existing paved highway surface) of the highway are a variance to WSDOT policy, requiring justification (Open Cut Variance Request) and approval by WSDOT prior to the Work beginning. Open cuts are only allowed at approved locations identified on the plan sheets and/or listed on Exhibit(s) _____, with restoration to be performed as noted on the attached "Open Cut Detail," Exhibit _____.

☑ 21. If determined necessary by WSDOT Representative, any or all of the excavated material shall be removed and replaced with suitable material as specified by WSDOT. It is the Utility's responsibility to obtain any necessary permits or comply with applicable requirements to haul or dispose of any excavated material.

☐ 22. If determined by the Washington State Department of Labor and Industries and/or WSDOT Representative that extra Shoring (beyond that specified in Section 7-08.3(1)B of WSDOT's Standard Specifications for Road, Bridge, and Municipal Construction) is necessary for the safety of the workers or the protection of the highway pavement, the trenching or excavation work shall be stopped and no Work in the trench or excavation area will be allowed until satisfactory modifications are made.

☑ 23. All trenches, boring or jacking pits, etc., shall be backfilled as soon as possible. If left open during nonworking hours, they shall be protected to the satisfaction of WSDOT. Methods of protection shall be submitted a minimum of 10 (ten) calendar days in advance for approval by WSDOT prior to use.

AERIAL/ABOVEGROUND FACILITIES

☐ 24. All facilities on joint use poles shall be relocated at the time the pole owner either moves or removes its poles. (The pole owner is the Permit or Franchise holder under which the poles were installed and is responsible for ensuring the removal of the pole.)

☐ 25 Neutral conductors associated with circuits of 0 to 22 Kilovolts, where the neutral is considered to be 0-750 Volts, shall have a minimum clearance of 24 feet Vertical Clearance as indicated in WAC 468-34-290, 20 feet provided the facility is grounded at each pole at each end of the crossing.

☐ 26. The Utility agrees to underground the aboveground facilities covered by this Franchise in Scenic Classes “A” and “B”, as defined on the attached Exhibit(s) _____, either at the time of major construction of the facility, for that portion of facility to be reconstructed, or prior to expiration of this Franchise.

☐ 27. The Utility agrees to underground the aboveground facilities covered by this Franchise in Scenic Classes “A,” “AX,” “B,” and/or “BX,” as defined on the attached Exhibit(s) _____, at the time the pole owner undergrounds its facility. The existing aboveground facility may remain or be relocated as aboveground in Scenic Classes “AX” or “BX,” if acceptable to WSDOT.

☐ 28. The Utility agrees to underground or relocate the existing aboveground facilities covered by this Franchise in Scenic Classes “A,” “AX,” “B,” and/or “BX,” as defined on the attached Exhibit(s) _____, to a location acceptable to WSDOT either at the time of reconstruction, for the portion of line to be reconstructed, or prior to the expiration of this Franchise. The existing aboveground facility may remain or be relocated as aboveground in Scenic Classes “AX” or “BX,” if acceptable to WSDOT.

MAINTENANCE

☐ 29. No routine maintenance of the facility authorized by this Permit or Franchise will be allowed within the limited access area.

☑ 30. Maintenance access of this facility will not be permitted from the shoulders, thru-traffic lanes, and/or ramps of I-5, and all service to this facility will be accessed from local roads or private property.

☐ 31. The Utility will notify WSDOT representative(s), listed in Special Provision 1, _____ (_____) working days (Monday through Friday excluding any holidays) prior to any scheduled maintenance work to be performed in the state-owned highway right of way.

☒ 32. Traffic control plans for this permit have been reviewed by the WSDOT Construction Traffic Coordination Office (CTCO) and they have determined that the work being done on local streets will not impact WSDOT highways. The Utility shall coordinate traffic control plan and material restoration reviews and approvals with the City of Ferndale.

☒ 33. All slurry and all liquids resulting from boring operation shall be contained and or vactored so as not to enter any stormwater ditches or storm drains. All excavated material shall be hauled away.

☒ 34. The pipe and casing shall be installed without damage to pavement and shoulders, or other facilities above or below the pipe. Damage to existing facilities as a result of the Utility's operations shall be repaired to the satisfaction of WSDOT at the Utility's expense. The repair procedure shall be proposed by the Utility and approved by WSDOT.

☒ 35. The Utility shall monitor highway surface continuously during boring operation. Should any settlement occur, work shall be stopped immediately and WSDOT representative should be informed for further instructions. Any damage to the above highway shall be repaired per WSDOT’s requirements and instructions.

☒ 36. The Utility shall control drilling operations by the use of the proper equipment and technique to ensure that the cutterhead follows the designed path. The Utility is not allowed to open cut or open trench within the state-owned highway right of way for cutterhead retrieval purpose.

☒ 37. The Utility shall notify the WSDOT representative(s), listed in Exhibit 'F', twenty (20) working days (Monday through Friday excluding any holidays) prior to any scheduled maintenance work to be performed in the state-owned highway right of way.

Washington State Department of Transportation

Utility Facility Description

All Greyed Out Areas are For Department Use Only				Accommodation Number:	UF-NW-2023-023
State Route Number:	Interstate 5	SnagMP (Link)		Access Control: LF	Scenic Class: B
Begin Mile Post:	263.80	End Mile Post:	263.80	T, R, Sec:	T39N, R2E, Sec 20

Facility Description - *Provide a summary of the proposed work:* ***(press ALT+Enter to insert line break)***

A 20 " HDPE casing will be installed under the raodway, extending minimum 10.0' beyond WSDOT ROW on east and west sides, and will meet the WSDOT standard depth requirements. The HDPE casing will house an 14" HDPE water line.

Additional Notes:

Begin Mile Post	End Mile Post	Left, Right or Xing	Offset Distances (feet)			Facility Description	Right of Way		Aerial, Buried, Bridge or Surface	Scenic Class	Access Control	Remarks and Installation Comments
			From Center Line	From Edge of Traveled Way (Fogline)	Depth or Height	Facility to be Installed/ Deactivated/ Upgraded (indicate size and/or diameter, and material)	Left	Right				1) Indicate where item enters/leaves R/W. 2) Include pertinent topography info (turnouts, Rd. approaches, intersections, culvert, guardrail, xing method, split grade/under/overpass, etc.)
263.8	263.8	Xing	128.94' (Left) 137.10' (Right)	79.69' (Left) 80.73' (Right)	10' Min	20" Diameter HDPE	111.91'	125.14'	Buried	B	LF	1.) Casing enters and leaves ROW at Milepost 263.8. 2.) The casing will be bored under the road using an auger bore machine in an excavated bore pit.

Exhibit 'B'
UF-NW-2023-023
Utility Facility Description (UFD)
Page 1 of 1

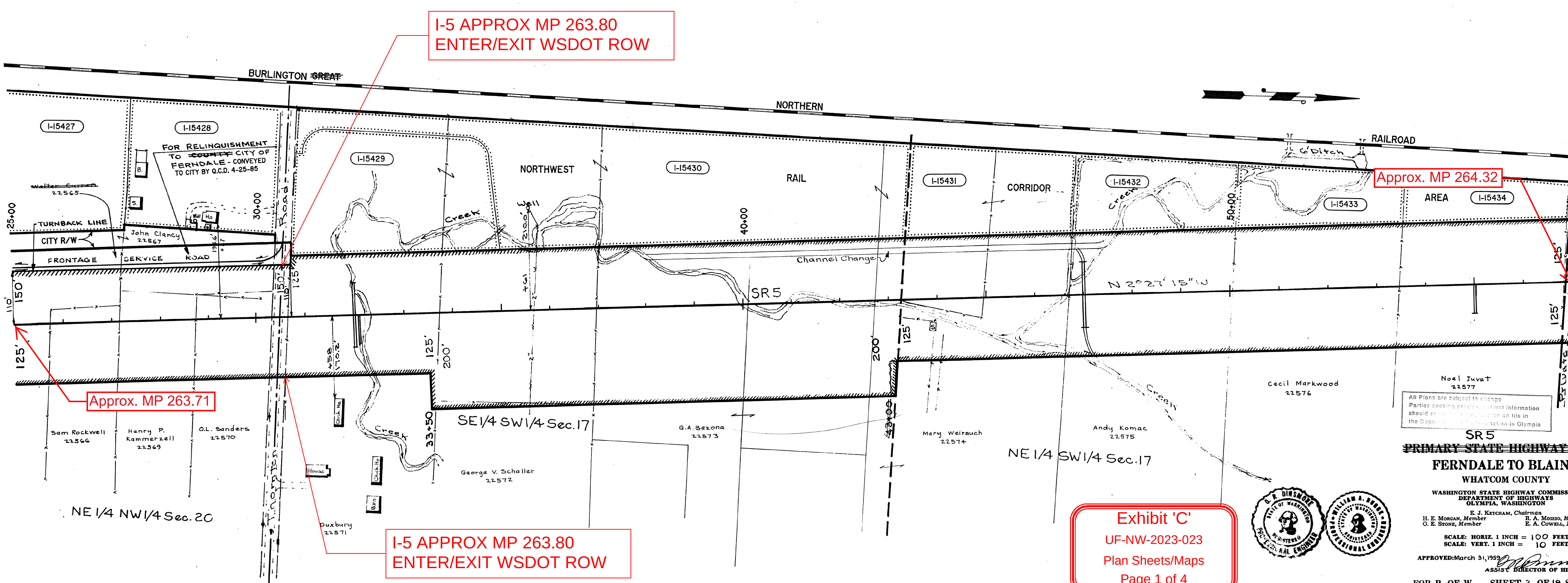
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
10	WASH.	I-5-5( )			

T.39N. R.2E. W.M.

PARCEL NO.	NAME	TOTAL AREA	R/W	LT. REMAINDER RT.		EASM'T
I-15434	STRICKLER, ET. AL.	0.72 AC.	0.72 AC.			
I-15433	WILKINSON (HOFMAN, ET. AL.)	0.94 AC.	0.94 AC.			
I-15432	INGRAM	1.06 AC.	1.06 AC.			
I-15431	TRUSTEES OF PETTIT FAMILY TRUST	1.33 AC.	1.33 AC.			
I-15430	FLEETWOOD INTERNATIONAL DEVELOPMENT CORP., ET. AL.	5.11 AC.	5.11 AC.			
I-15429	Z. TUCKER & M. RICHARDS	2.17 AC.	2.17 AC.			
I-15428	STONECREST HOLDINGS, LTD.	1.50 AC.	1.50 AC.			
I-15427	SEE SHEET NO. I					

OWNERSHIPS

AUTHORITY	DATE	SUBSEQUENT APPROVAL	BY
Letter 4-28-83	5-23-83	Revised relinquishment from county to city	RLS
Letter 3-21-83	4-18-83	Added turnback line & relinquishment to county	RLS
Letter 6-17-60	6-28-60	R/W revised as acquired Sta. 43+00 to Sta. 43+15± on Rt.	O.L.L.
Letter 5-11-60	5-24-60	L/A Hatchures Rev. on Lt. Sta. 30+00± to Sta. 34+00±	B.K.
	11-10-59	ownerships Revised	B.K.
Letter 10-8-59	10-20-59	Section Line Location Revised Sta. 30+50±, & Ownerships Added	B.K.
Letter 3-9-94	3-11-94	Added Pacific Northwest Rail Corridor Area on Lt. Sta. 25+00 to 57+00; Rev. L/A on Lt. vic. Sta. 32+00; Added City R/W on Lt. Sta. 25+00 to 30+75±; Added parcels I-15427 thru I-15434; Noted Conveyances	HEP



All Plans are subject to change
Parties seeking precise, current information should consult the official plan on file in the Department of Transportation in Olympia

SR 5

~~PRIMARY STATE HIGHWAY NO. 1~~

FERNDALE TO BLAINE

WHATCOM COUNTY

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

E. J. KETCHAM, *Chairman*
H. E. MORGAN, *Member* — R. A. MOISIO, *Member*
O. E. STONE, *Member* — E. A. COWELL, *Member*

SCALE: HORIZ. 1 INCH = 100 FEET
SCALE: VERT. 1 INCH = 10 FEET

APPROVED: March 31, 1959
ASSIST. DIRECTOR OF HIGHWAYS

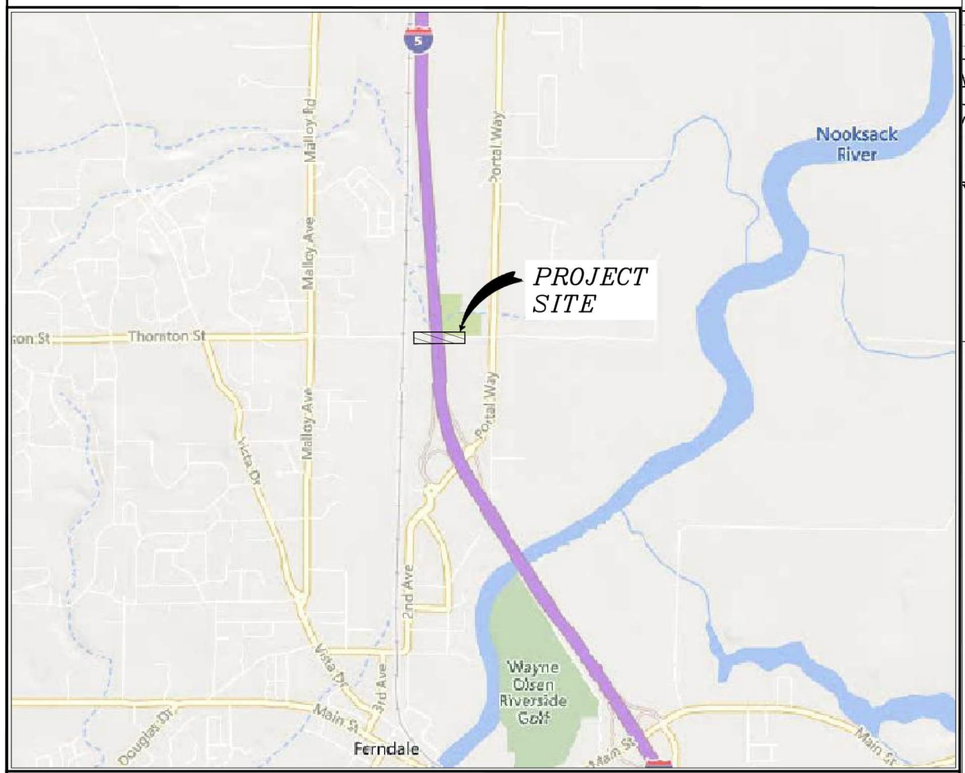
FOR R. OF W. SHEET 2 OF 18 SHEETS

CONTRACT NUMBER

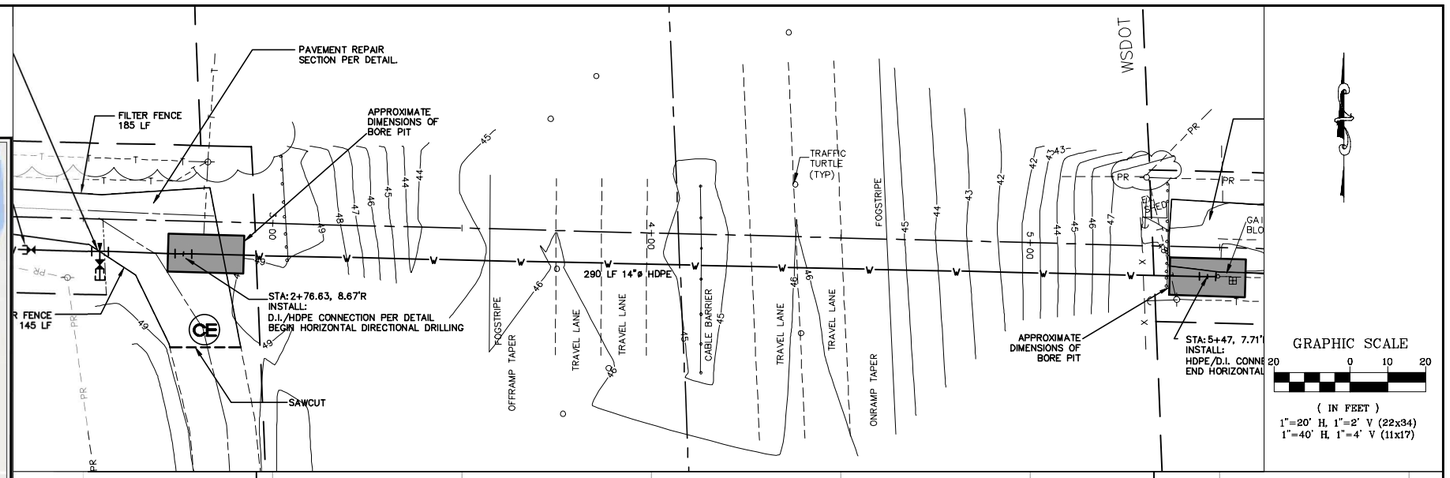
SR-5/163

DRAWER 14 SEQUENCE 4

VICINITY MAP



PROJECT LOCATION



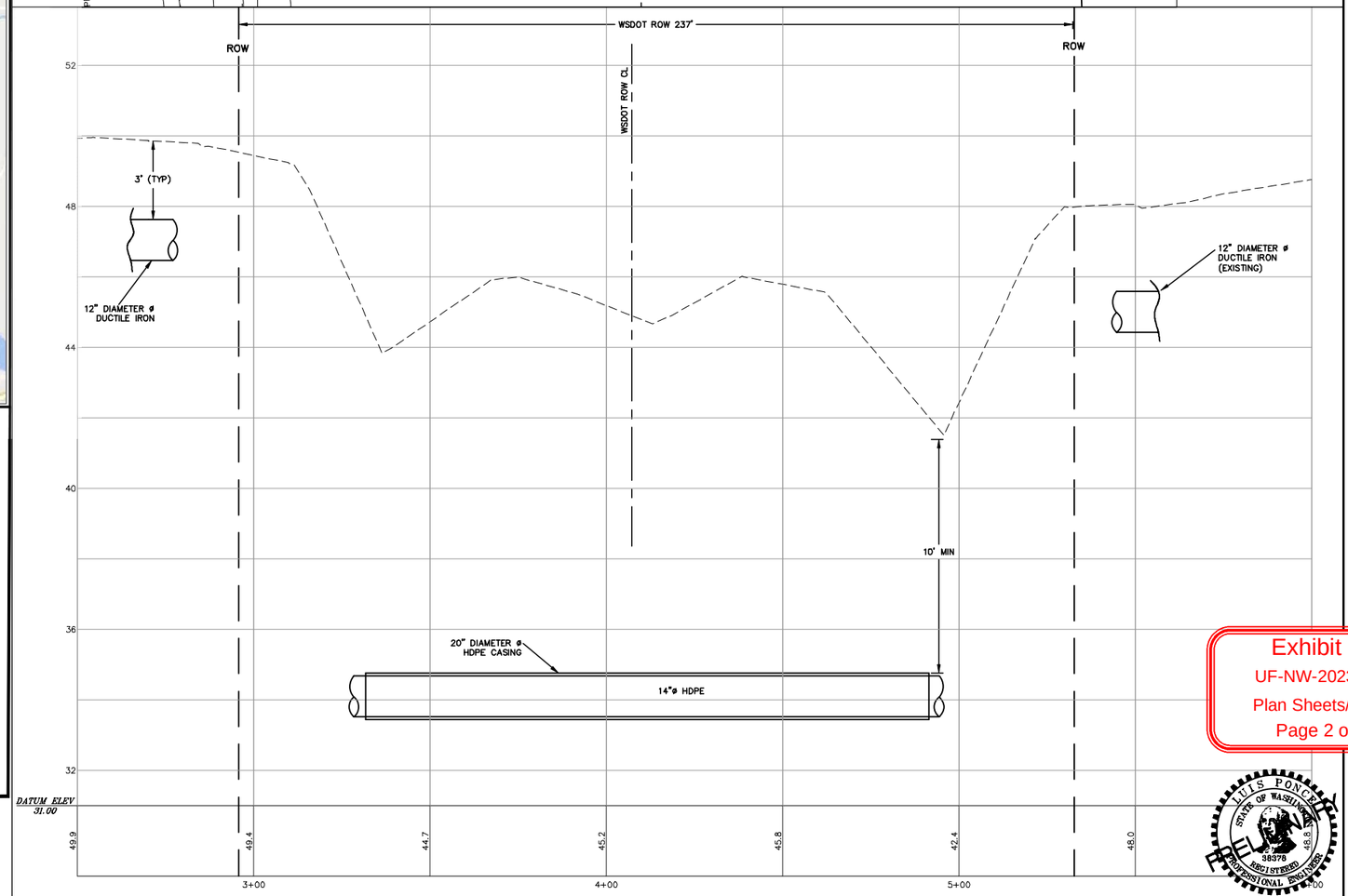


Exhibit 'C'
UF-NW-2023-023
Plan Sheets/Maps
Page 2 of 4

LUIS PONCE ARCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

DESIGNED BY	LP
DRAWN BY	BC
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE. WA 98248

CITY OF FERNDALE
THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS
PLAN + PROFILE

DWG SP1			DATE 8/31/23
JOB# 23007	SCALE H: 1"=20'	V: 1"=2'	SHEET 1 of X

P:\Projects\23007\Civil 3D 2023\SP1.dwg, EXHIBIT 'C' (SE LOCATION), 8/31/2023 4:30:15 PM, AutoCAD PDF (General Documentation).pc3

I-5 MP 263.8

BORE LOCATION

Legend

BORE PIT OUTSIDE DOT ROW TO CONNECT TO EXISTING WATER SERVICE

BORE PIT OUTSIDE DOT ROW TO CONNECT TO EXISTING WATER SERVICE

DOT ROW

DOT ROW

INTERSTATE 5 NORTHBOUND

INTERSTATE 5 SOUTHBOUND

Exhibit 'C'

UF-NW-2023-023

Plan Sheets/Maps

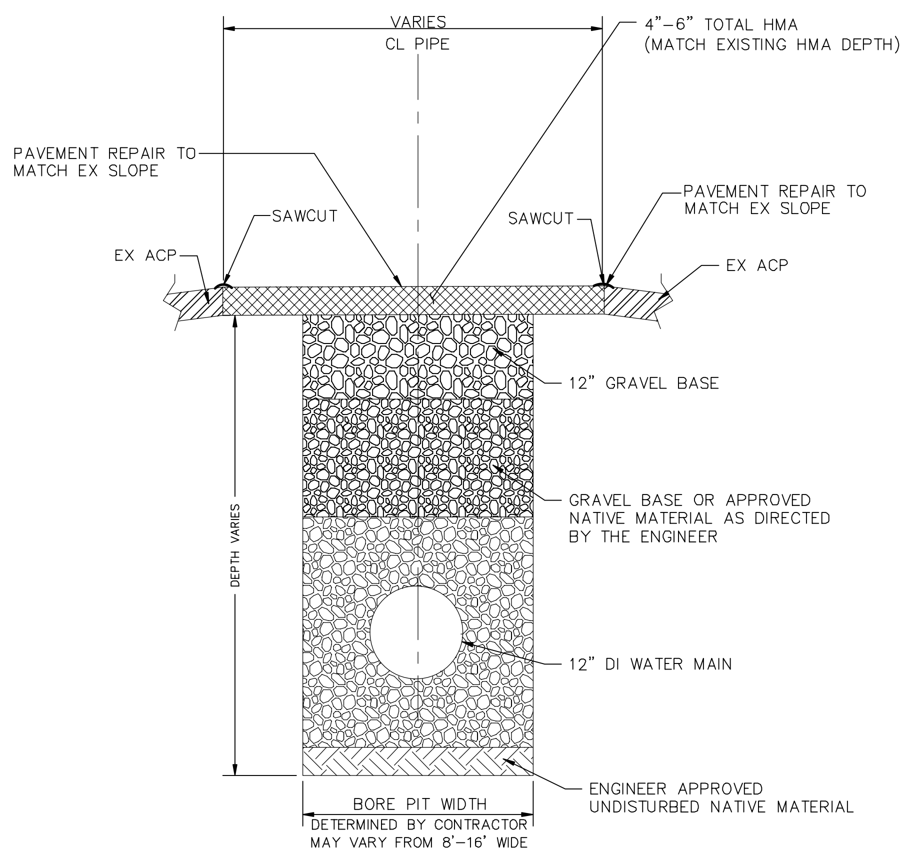
Page 3 of 4

N

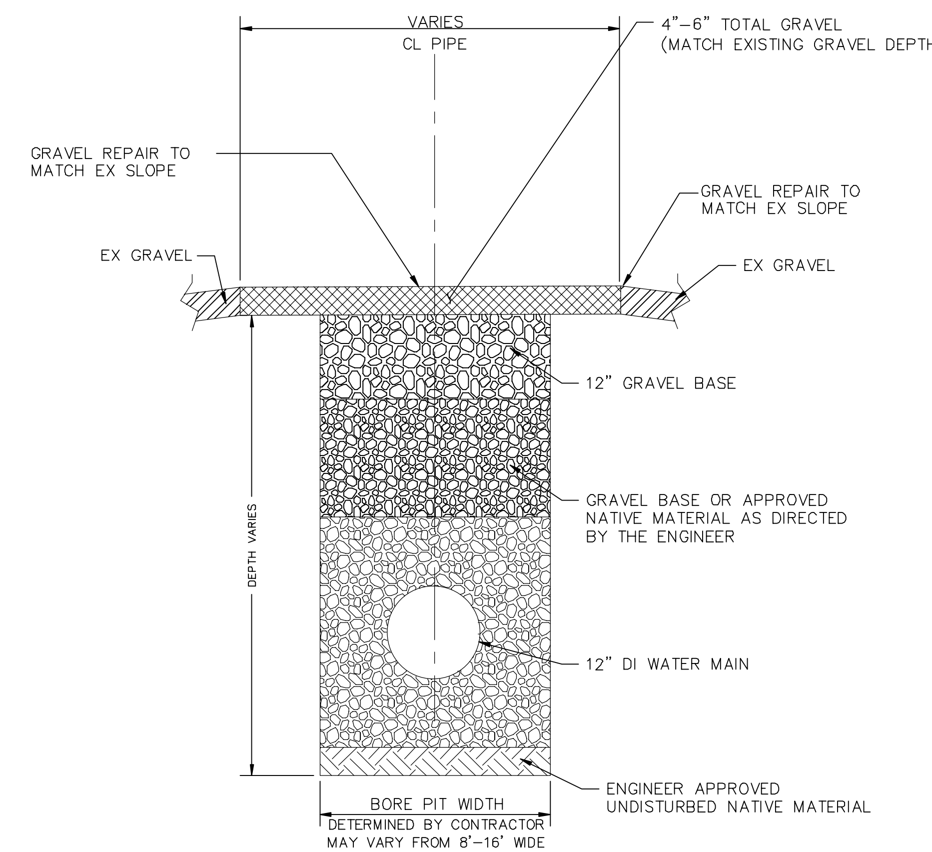
Google Earth

5.00 ft

This sheet is informational only - Bore pits are outside WSDOT



TYPICAL BORE PIT SECTION
ASPHALT CONCRETE PAVEMENT SECTION
NTS
EAST OF I-5



TYPICAL BORE PIT SECTION
GRAVEL SECTION
NTS
WEST OF I-5

Exhibit 'C'
UF-NW-2023-023
Plan Sheets/Maps
Page 4 of 4

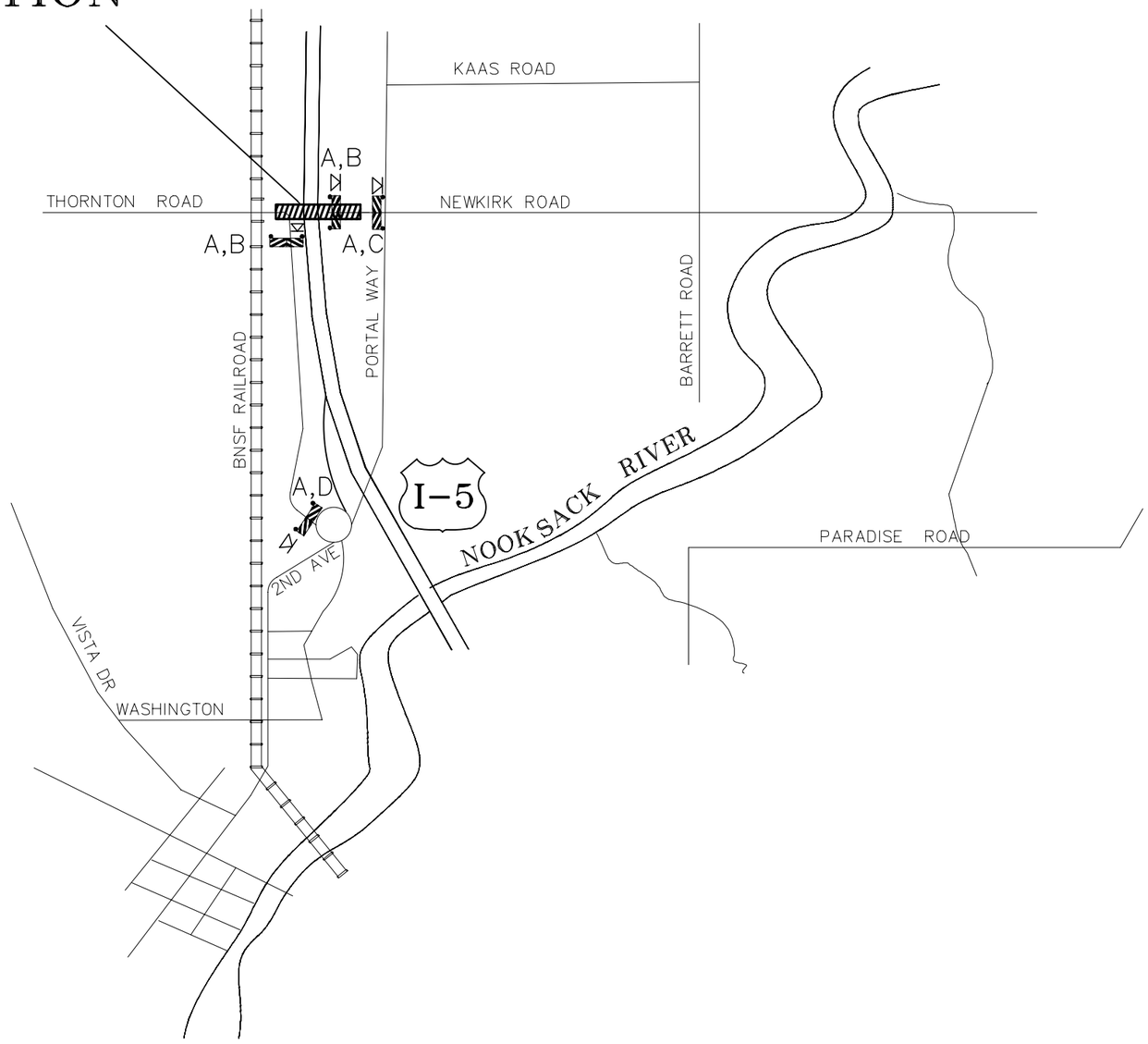
LUIS PONCE · STATE OF WASHINGTON · 38378 · REGISTERED PROFESSIONAL ENGINEER · PRELIMINARY

PRELIMINARY	DESIGNED BY LP / DRAWN BY BC / CHECKED BY LP	R&E Reichhardt & Ebe Engineering Inc, P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687	NO.	DATE	DESCRIPTION	BY	CITY OF FERNDALE 2095 MAIN STREET FERNDALE, WA 98248	CITY OF FERNDALE THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS PLAN + PROFILE	DWG SP1 / JOB# 23007	SCALE H: 1"=20' V: 1"=2'	DATE 8/31/23 / SHEET 2 of X

TRAFFIC CONTROL PLAN

WSDOT DEFERS APPROVAL OF PLANS AND HOURS

PROJECT LOCATION



LEGEND

A		TYPE III R AND TYPE III L. BARRICADE WITH 2 TYPE A FLASHING WARNING LIGHTS
B		ROAD CLOSED LOCAL TRAFFIC ONLY — R 11-3
C		ROAD CLOSED 500 FT AHEAD LOCAL TRAFFIC ONLY — R 11-3
D		ROAD CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY — R 11-3

Exhibit 'D'
UF-NW-2023-023
Traffic Control Plan
Page 1 of 1

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

DESIGNED BY	LP
DRAWN BY	BC
CHECKED BY	LP

Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

CITY OF FERNDALE
THORNTON TO NEWKIRK WATERMAIN IMPROVEMENTS
TRAFFIC CONTROL

DWG SP1			DATE 8/31/23
JOB# 23007	SCALE H: 1"=60' V: 1"=2'		SHEET 1 of X

Pre-Construction Notification

In accordance with Washington State Department of Transportation (WSDOT) Special Provisions for Permits and Franchises, provide requested information to below-designated WSDOT construction contacts prior to the beginning of construction. Use Alternate Contact or surface mail if phone or e-mail are no longer in effect. This form is NOT for maintenance work.

No work shall take place until the Utility has participated in the Pre-Construction conference.

Accommodation No.:	UF-NW-2023-023	**State Route No:**	I-5
Expiration Date:	11/22/2048	**From Mile Post:**	263.80
WO/Charge Code:	/JZ2038 GR 02	**To Mile Post:**	263.80

WSDOT Construction Contacts

WSDOT Inspector (notify at least Five (5) prior to starting work)

NW Local Agency & Development Services Office
15700 Dayton Ave. N.
PO BOX 330310 MS 82-240
Seattle, WA 98133-9710

NAME: Michael Gallop
TITLE: WSDOT Inspector
PHONE: 206-440-4913/ 206-940-2736
E-MAIL: Mike.Gallop@wsdot.wa.gov

WSDOT Traffic Control (notify at least Five (5) prior to starting work)

Construction Traffic Coordination Office
15700 Dayton Ave. N.
P.O. BOX 330310, NB82-125
Seattle, WA 98133-9710

NAME:
TITLE: WSDOT NWR CTCO Engineer
PHONE:
E-MAIL:

Construction Contacts and Schedule

Anticipated Start Date: **Estimated Duration:**

Permit/Franchise Holder

City of Ferndale
COMPANY

STREET ADDRESS

CITY, STATE ZIP

OFFICE PHONE

NAME:
TITLE:
PHONE:
E-MAIL:

Contractor

COMPANY

STREET ADDRESS

CITY, STATE ZIP

OFFICE PHONE

NAME:
TITLE:
PHONE:
E-MAIL:

THE PERMIT/FRANCHISE HOLDER OR THEIR REPRESENTATIVE SHALL NOTIFY NORTHWEST REGION UTILITIES IMMEDIATELY IF THEY ARE UNABLE TO START CONSTRUCTION ON THE DATE INDICATED ABOVE.
FAILURE TO PROVIDE NOTIFICATION MAY RESULT IN INSPECTION CHARGES BEING INCURRED.S

Exhibit 'E'
UF-NW-2023-023
Pre-Construction Notification
Page 1 of 1

UF-NW-2023-023

NEW INSTALLATION ONLY

Maintenance Notification

Update and re-use this form as needed for in-kind repair or replacement of EXISTING primary and secondary facilities associated with the referenced utility permit or franchise number ONLY. Maintenance activities are subject to the general and special provisions of the referenced utility permit or franchise, a WSDOT-approved, site-specific Traffic Control Plan, and submittal of this Notification Form.

This form does NOT apply if there will be an upgrade, change in capacity, location/route, appurtenances, or subcontracted/ outsourced work. Please call the NW Region Utilities Office if you have questions.

No work shall take place until the Utility has received written or verbal authorization from WSDOT to proceed.

Accommodation No.:	UF-NW-2023-023	**State Route No:**	I-5
Accommodation Expiration Date:	11/22/2048	**From Mile Post:**	263.80
Maintenance Notification No.:		**To Mile Post:**	263.80
Maintenance Work Order No.:		**Charge Code:**	

In accordance with Washington State Department of Transportation (WSDOT) Special Provisions for Permits and Franchises, provide the project information below to the following WSDOT representative twenty (20) working days prior to the beginning of construction. **Use Alternate Contact or surface mail if phone or e-mail are no longer in effect.**

WSDOT NW REGION UTILITIES
15700 DAYTON AVE. N., NB82-113
P.O. BOX 330310
SEATTLE, WA 98133-9710

Contact:	Khoi Pham
Phone:	206-440-4130
E-Mail:	To: NWRutilities@WSDOT.WA.GOV Khoi.Pham@wsdot.wa.gov
Alt. Contact:	NWR Utilities Office
Alt. Phone:	206.440.4120

Provide Description of Work Activity

Anticipated Start Date: **Estimated Duration:**

Provide Utility Contacts

Permit/Franchise Holder

City of Ferndale
COMPANY

STREET ADDRESS

CITY, STATE ZIP

OFFICE PHONE

CONTACT NAME:
TITLE:
PHONE:
E-MAIL:

Contractor

COMPANY

STREET ADDRESS

CITY, STATE ZIP

OFFICE PHONE

CONTACT NAME:
TITLE:
PHONE:
E-MAIL:

WSDOT Authorization

Maria Mayrhofer
NWR UTILITIES OFFICE

NW Region Utilities Manager
TITLE

SIGNATURE:
DATE:
MAINTENANCE NOTICE EXPIRATION DATE:

THE PERMIT/FRANCHISE HOLDER OR THEIR REPRESENTATIVE SHALL NOTIFY NORTHWEST REGION UTILITIES IMMEDIATELY IF THEY ARE UNABLE TO START WORK ON THE DATE INDICATED ABOVE.
FAILURE TO PROVIDE NOTIFICATION MAY RESULT IN INSPECTION CHARGES BEING INCURRED.

Exhibit 'E'
UF-NW-2023-023
Pre-Construction Notification
Page 1 of 1

UF-NW-2023-023

MAINTENANCE WORK ONLY