

# Eagle I Roadway Improvements Request for Proposal

Prepared for  
Confederated Tribes of the  
Chehalis Reservation



July 2017

Prepared by  
**Parametrix**

# **Eagle I Roadway Improvements Request for Proposal**

*Prepared for*

**Confederated Tribes of the Chehalis Reservation**

420 Howanut RD  
P.O. Box 536  
Oakville, WA 98568

*Prepared by*

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**July 2017**

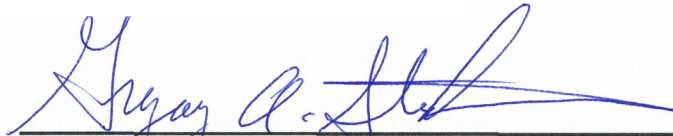
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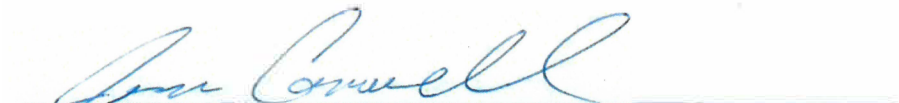
Parametrix. 2017. Eagle I Roadway Improvements  
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Puyallup, WA. July 2017.

## CERTIFICATION

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a professional engineer licensed to practice as such, is affixed below.



  
Prepared by Gregory A. Stidham, P.E.

  
Checked by Jesse Conwell, Chehalis Tribe Utilities Project Manager

  
Approved by Amy Loudermilk, Chehalis Tribe Planning Director

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**RFP/BID FORM**

**CONFEDERATED TRIBES OF THE CHEHALIS RESERVATION**

**REQUEST FOR PROPOSAL**

**EAGLE I ROADWAY IMPROVEMENTS PROJECT**

**PROJECT NAME:  
Eagle I Roadway Improvements  
PO Box 536  
6 Niederman Road  
Oakville, Washington 98568  
PH: 360-709-1862  
jconwell@chehalis-tribe.org**

**July 20, 2017**

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**INVITATION TO BID**  
**CONFEDERATED TRIBES OF THE CHEHALIS RESERVATION**  
**EAGLE I ROADWAY IMPROVEMENTS**

**REQUEST FOR PROPOSAL**

Sealed proposals for the Eagle I Roadway Improvements project must be mailed to: The Chehalis Tribe, PO Box 536, Oakville, WA 98568, Attn: Jesse Conwell, or delivered to the street address: 6 Niederman Road, Oakville, WA 98568. Bid proposals received after the date and time stated above will not be accepted. Proposals received on time will be opened privately. The Chehalis Tribe will share the bid results within 10 business days from the final date of receipt of proposals. The Chehalis Tribe reserves the right to waive irregularities and to reject any and all bids.

Bidders must familiarize themselves with existing conditions to submit a responsive bid proposal.

Please direct questions regarding this project to the Project Manager, Jesse Conwell:

Email: [jconwell@chehalistribe.org](mailto:jconwell@chehalistribe.org)  
Phone: (360) 709-1862

The work includes the furnishing of all labor, materials, and equipment necessary to construct the Eagle I Roadway Improvements according to the drawings and specifications.

Bid pricing is to exclude sales taxes; applicable sales taxes are to be invoiced at the time of billing.

By Order of: Confederated Tribes of the Chehalis Reservation  
Oakville, WA 98568

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# INSTRUCTIONS TO BIDDERS

## ARTICLE 1 – DEFINITIONS

- 1.1 The Bidding Documents include the Invitation to Bid, Instructions to Bidders, Request for Proposal/Bid Form, Specifications, Drawings, and the proposed Contract Documents including any Addenda issued prior to receipt of bids. The Contract Documents proposed for the Work consist of the Agreement Between Confederated Tribes of the Chehalis Reservation and Contractor, the Drawings, the Specifications and all Addenda issued prior to and all modifications issued after execution of the Contract.
- 1.2 Addenda are written or graphic instruments issued prior to the execution of the Contract which modify or interpret the Bidding documents by additions, deletions, clarifications, or corrections. The contents of Addenda are issued in no particular order and therefore should be carefully and completely reviewed.
- 1.3 A Bid is a complete and properly signed proposal to do the Work, or designated portion thereof, submitted in accordance with the Bidding Documents for the sums therein stipulated.
- 1.4 The Base Bids are the sums stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base to which work may be added or from which work may be deleted for sums stated in Alternate Bids if any.
- 1.5 A Bidder is a person or entity who submits a bid.
- 1.6 The Owner is the Confederated Tribes of the Chehalis Reservation, located at:  
  
Planning Department  
6 Niederman Road  
Oakville, Washington 98568
- 1.7 In case of conflict between the provisions of these Instructions and any other Bidding Document, these Instructions shall govern. In case of conflict between the provisions of the Bidding Documents and the Contract Documents, the Contract Documents shall govern.

## ARTICLE 2 – BIDDER'S REPRESENTATIONS

- 2.1 Each Bidder, by making its Bid, represents that:
  - 2.1.1 The Bidder has read and understands the Bidding Documents and its Bid is made in accordance therewith.
  - 2.1.2 The Bidder has familiarized itself with the requirements to be performed and has correlated its observations with the requirements of the proposed Contract Documents.

- 2.1.3 Its Bid is based upon the materials, systems, and equipment required by the Bidding Documents, without exception.
- 2.1.4 The Bidder has carefully examined the Bidding Documents and Contract Documents and has satisfied itself as to the nature, location, character, quality, and quantity of the labor, materials, equipment, goods, supplies, work, services, and other items to be furnished, all other requirements of the Contract Documents, as well as the conditions and other matters that may affect performance of the work or the cost or difficulty thereof. The failure of the bidder fully to acquaint themselves with any applicable condition or matter shall not in any way relieve the bidder from the responsibility for performing the work in accordance with and for the contract sum provided for in the contract documents.

### **ARTICLE 3 – BIDDING DOCUMENTS**

#### 3.1 Copies:

- 3.1.1 Complete sets of the Bidding Documents will be issued to the Bidders designated in the Invitation to Bid.
- 3.1.2 Bidder shall use complete sets of Bidding Documents in preparing Bids; the Tribe assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

#### 3.2 Interpretation or Correction of Bidding Documents:

- 3.2.1 Bidders shall promptly notify the Tribe of any ambiguity, inconsistency, or error, which they may discover upon examination of the Bidding Documents. The submittal of the Bid constitutes acceptance of products and procedures specified as sufficient, adequate, and satisfactory for completion of the Contract.
- 3.2.2 Bidders requiring clarification or interpretation of the Bidding Documents shall make a written request which shall reach the Tribe at least seven days prior to the date for receipt of Bids.
- 3.2.3 Any interpretation, correction, or change of the Bidding Documents will be made by Addendum. Interpretations, corrections, or changes of the Bidding Documents made in any other manner will not be binding and Bidders shall not rely upon such interpretations, corrections, and changes.

#### 3.3 Addenda:

- 3.3.1 Addenda will be mailed or delivered to all who are known by the Tribe to have received a complete set of Bidding Documents.
- 3.3.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

- 3.3.3 No Addenda will be issued later than three days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or including postponement of the date for receipt of Bids.
- 3.3.4 Each Bidder shall ascertain, prior to submitting its bid that it has received all Addenda issued and it shall acknowledge their receipt in its Bid.

## **ARTICLE 4 – BIDDING PROCEDURE**

### **4.1 Form and Style of Bids:**

- 4.1.1 Bids shall be submitted on a Bid Form identical to the form included with the Bidding Documents.
- 4.1.2 Where so indicated by the makeup of the Bid Form, sums shall be expressed in both words and figures; in case of discrepancy between the two, the amount written in words shall govern.
- 4.1.3 Any interlineation, alteration, or erasure must be initialed by the signer of the Bid.
- 4.1.4 Each copy of the Bid shall include the legal name of the Bidder and a statement that the Bidder is a sole proprietor, a partnership, a corporation, or some other legal entity. Each copy shall be signed by the persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall also give the State of Incorporation. A bid submitted by an agent shall have a current power of attorney attached certifying the agent's authority to bind the Bidder.
- 4.1.5 The Bid shall include in the sum stated all taxes imposed by law EXCEPT STATE AND LOCAL SALES TAX.

### **4.2 Bid Security:**

- 4.2.1 As described on RFP/Bid Form.

### **4.3 Submission of Bids:**

- 4.3.1 The Bid, and any other documents required to be submitted with the Bid, shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to:

Confederated Tribes of the Chehalis Reservation  
Attn: Jesse Conwell, Utilities Project Manager  
Planning Department  
6 Niederman Road  
Oakville, WA 98568

If bid is sent by mail, envelope shall be addressed to:

Bid Title: Eagle I Roadway Improvements  
Submitted by:  
Submitter's address:

If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof and addressed to:

Confederated Tribes of the Chehalis Reservation  
Attn: Jesse Conwell, Utilities Project Manager  
PO Box 536 Oakville, WA 98568,

- 4.3.2 The bidder shall include one original and 3 paper copies of the bid proposal documents in the sealed submittal envelope.
  - 4.3.3 Bids shall be deposited at the designated location prior to the time and date for receipt of Bids indicated in the Invitation to Bid or any extension thereof made by Addendum. Bids received after the time and date for receipt of Bids will be returned unopened.
  - 4.3.4 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.
  - 4.3.5 Oral, telephonic, or facsimile Bids are invalid and will not receive consideration.
- 4.4 Modification or Withdrawal of Bids:
- 4.4.1 A Bid may not be modified, withdrawn, or canceled by the Bidder during a thirty day period following the time and date designated for the receipt of Bids and each Bidder so agrees in submitting its Bid.
  - 4.4.2 Prior to the time and date designated for receipt of Bids, any Bid submitted may be modified or withdrawn by notice to the party receiving Bids at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder or by telegram; if by telegram, written confirmation over the signature of the Bidder shall be mailed and postmarked on or before the date and time set for receipt of Bids and it shall be so worded as not to reveal the amount of the original Bid.
  - 4.4.3 Withdrawn Bids may be re-submitted up to the time designated for the receipt of Bids provided that they are then fully in conformance with these Instructions to Bidders.

## **ARTICLE 5 – CONSIDERATION OF BIDS**

- 5.1 Opening of Bids:
  - 5.1.1 Bids will be opened privately by the owner and reviewed by the selection committee.
- 5.2 Rejection of Bids:
  - 5.2.1 The Tribe shall have the right to reject any/or all Bids for any reason or for no reason, to reject a Bid not accompanied by data required by the Bidding Documents, or to reject a Bid which is in any way incomplete or irregular.

### 5.3 Acceptance of Bid (Award):

5.3.1 The Tribe intends (but is not bound) to award a Contract provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Tribe has the right to waive any informality or irregularity in any Bid or Bids received and to accept the Bid or Bids which, in its judgment, is in its own best interests.

5.3.2 Preference should be given to hiring Indian subcontractors and labor.

5.3.3 The Tribe reserves the right to limit the award of the bid based on funds available to all or any combination of base bids.

## **ARTICLE 6 – POST BID INFORMATION**

### 6.1 Submittals:

6.1.1 The Bidders shall submit in a timely manner all information required by the Contract Documents.

## **ARTICLE 7 – FORM OF AGREEMENT BETWEEN THE OWNER AND CONTRACTOR**

### 7.1 Form to be Used:

7.1.1 The Agreement for the Work will be written on the form included with the Bidding Documents.

## **ARTICLE 8 – SUPPLEMENTARY INSTRUCTIONS**

8.1 Contract Time: See Article 2 of the Agreement.

8.2 Non Discrimination: The Bidder shall fully comply with all applicable tribal, federal, state, and local laws, regulations, and ordinances pertaining to nondiscrimination, equal employment, and affirmative action.

8.3 Liquidated Damages: None.

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## **BIDDER'S CHECKLIST**

The bidder's attention is called to the following forms which must be executed in full as required and submitted (as a sealed bid) at the time of bid opening:

### **PROPOSALS**

Proposals must consist of the following information in the order indicated below:

1. Form A – Bid Proposal.
2. Form B – Project Approach and Schedule.
3. Form C – Safety Plan.
4. Form D – Bonding (5%).
5. Proof of enrollment in a federally recognized Indian Tribe, if applicable.
6. Form E – Signature Page.

**FAILURE TO COMPLETE AND SUBMIT THE ABOVE ITEMS MAY BE CAUSE FOR THE TRIBE TO CONSIDER THE BID IRREGULAR AND BE REJECTED.**

The following forms are to be executed after the Award:

1. Contract: To be executed by the successful bidder and the Tribe.
2. Contract Bond (Performance and Payment Bond).
3. Insurance Certificates.
4. Labor and Industry Forms.

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## PROPOSAL REQUIREMENTS

Proposals must consist of the following information in the order indicated below:

1. Form A – Bid Proposal.
2. Form B – Project Approach and Schedule.

This project includes a section of new road, a stormwater pond, sidewalks, and will require careful traffic control. Coordination of items with long lead deliveries to complete project in the most time effective manner. The project schedule will be evaluated to assess the Bidder's ability to complete the project in a timely manner. Project schedules must also demonstrate that the Bidder understands the work involved, has coordinated with any subcontractors, and has accounted for material availability.

3. Form C – Safety Plan.

The Bidder shall submit a Safety Plan in accordance with Title 36 of the Chehalis Tribal Occupation, Safety, Health and CONSTRUCTION SAFETY ORDINANCE. Additionally the Safety Plan shall address project specific work elements.

4. Form D – Bonding.
5. Proof of enrollment in a federally recognized Indian Tribe, if applicable.

Preference will be given to qualified applicants who are members of federally recognized Indian tribes. To be considered for Indian Preference, you must submit proof of enrollment in a federally recognized Indian tribe.

6. Form E – Signature Page.

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## FORM A: BID PROPOSAL

### EAGLE I ROADWAY IMPROVEMENTS

NOTE: Unit prices for all items, all extensions, and the total amount bid must be shown. All entries must be typed or entered in ink.

<b>SCHEDULE A – Eagle I Roadway Improvements</b>						
Item No.	Spec. Section	Description	Unit	Quantity	Unit Price	Total Amount
A1	1-04	Minor Change	FA	1	\$2,500.00	\$2,500.00
A2	1-07	SPCC Plan	LS	1	\$	\$
A3	1-09	Mobilization (8%)	LS	1	\$	\$
A4	1-10	Project Temporary Traffic Control	LS	1	\$	\$
A5	2-01	Clearing and Grubbing	Acre	0.53	\$	\$
A6	2-02	Removal of Structures and Obstructions	LS	1	\$	\$
A7	2-03	Roadway Excavation Incl. Haul	CY	116	\$	\$
A8	2-03	Channel Excavation Incl. Haul	CY	990	\$	\$
A9	2-03	Gravel Borrow incl. Haul	Ton	1,195	\$	\$
A10	2-03	Embankment Compaction	CY	632	\$	\$
A11	4-04	Crushed Surfacing Base Course	Ton	544	\$	\$
A12	4-04	Crushed Surfacing Top Course	Ton	74	\$	\$
A13	5-04	HMA CL 1/2 In. PG 64-22	Ton	230	\$	\$
A14	7-02	Schedule A Storm Sewer Pipe 8 In. Diam.	LF	102	\$	\$
A15	7-05	Connection to Drainage Structure	EA	2	\$	\$
A16	7-05	Adjust Catch Basin	EA	1	\$	\$
A17	8-01	Silt Fence	LF	600	\$	\$
A18	8-01	ESC Lead	Day	25	\$	\$
A19	8-01	Inlet Protection	EA	5	\$	\$
A20	8-01	Erosion/Water Pollution Control	FA	1	\$5,000.00	\$5,000.00
A21	8-01	Seeding, Fertilizing, and Mulching	Acre	0.52	\$	\$
A22	8-02	Soil Amendment	Acre	0.25	\$	\$
A23	8-02	Coarse Compost	Acre	0.25	\$	\$
A24	8-02	Bark or Wood Chip Mulch	Acre	0.05	\$	\$
A25	8-04	Cement Conc. Traffic Curb and Gutter	LF	1,052	\$	\$

<b>SCHEDULE A – Eagle I Roadway Improvements</b>						
Item No.	Spec. Section	Description	Unit	Quantity	Unit Price	Total Amount
A26	8-04	Cement Conc. Pedestrian Curb	LF	60	\$	\$
A27	8-04	Cement Conc. Traffic Curb	LF	226	\$	\$
A28	8-04	Cement Conc. Scupper	EA	8	\$	\$
A29	8-06	Reinforced Cement Conc. Driveway	SY	360	\$	\$
A30	8-14	Cement Conc. Sidewalk	SY	245	\$	\$
A31	8-14	Cement Conc. Curb Ramp Type Parallel	EA	4	\$	\$
A32	8-14	Cement Conc. Curb Ramp Type Single Direction	EA	5	\$	\$
A33	8-15	Quarry Spalls	Ton	3	\$	\$
A34	8-22	Detectable Warning Surface	SF	65	\$	\$
A35	8-22	Plastic Crosswalk Line	SF	180	\$	\$
A36	8-22	Plastic Traffic Arrow	EA	9	\$	\$
A37	8-22	Plastic Stop Line	SF	140	\$	\$
A38	8-22	Painted Barrier Center Line	LF	221	\$	\$
A39	8-22	Plastic Line	LF	290	\$	\$
A40	8-30	Type 2 Bollard	EA	7	\$	\$
<b>TOTAL SCHEDULE A:</b>					\$	

**FORM B: PROJECT APPROACH AND SCHEDULE**  
**CONFEDERATED TRIBES OF THE CHEHALIS INDIAN RESERVATION**  
**REQUEST FOR PROPOSAL**  
**EAGLE I ROADWAY IMPROVEMENTS**

**PROJECT APPROACH**

This project includes approximately 320 linear feet of road construction and sidewalk, a storm water pond with 2800 square feet of bottom area, a new exit from Key Bank, and will require careful traffic control.

The bidder must propose in detail how they will keep the affected businesses from suffering any loss of business or access during construction, specifically but not limited to Key Bank.

Address subcontractor scope and coordination in accordance with Section 1-10.

Outline the traffic control plan, including diagram, identifying how flaggers will be used and specifying signage and illumination (night traffic safety).

Describe material and equipment staging. Attach a diagram identifying locations where material and equipment that is delivered or staged on-site will be located.

Present in the proposal, the coordination of any items with long lead deliveries to complete project in the most time effective manner. The project schedule will be evaluated to assess the Bidder's ability to complete the project in a timely manner. Project schedules must also demonstrate that the Bidder understands the work involved, has coordinated with any subcontractors and has accounted for material availability.

**PROJECT SCHEDULE**

Include a proposed Type B work schedule, by activity in accordance with Section 1-08.3 (2)A, of the WSDOT Standard Specifications indicating when each activity will be accomplished. Identify any significant milestones or deadlines. Include due dates for all deliverables. The schedule must include all construction activities and provide adequate detail to establish an acceptable and realistic construction duration and sequence to complete the project.

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**FORM C: SAFETY PLAN**  
**CONFEDERATED TRIBES OF THE CHEHALIS INDIAN RESERVATION**  
**REQUEST FOR PROPOSAL**  
**EAGLE I ROADWAY IMPROVEMENTS**

The Bidder shall submit a Safety Plan in accordance with Title 36 of the Chehalis Tribal Occupation, Safety, Health and CONSTRUCTION SAFETY ORDINANCE.

The Safety Plan must describe how site-specific construction safety will be ensured in the following areas:

- Personal protective equipment.
- Worksite housekeeping.
- Employee training.
- Fall protection.
- Emergency response/accidents/injury response including investigations and reporting.
- Fire protection.
- Hand and power tools.
- Heavy equipment/vehicles.
- Material handling and storage.
- Confined space.

Describe your policy for employee safety, including all subcontractors, and how you handle non-compliance with on-site safety. List all employees, including subcontractors, that have completed safety training such as:

- First aid/CPR/blood borne pathogens.
- Heavy equipment operator.
- Hazardous waste operations and emergency response (HAZWOPER).

Additionally the Safety Plan shall address the following project specific work elements:

1. Approach to constructing the Eagle I Roadway Improvements, including any specific traffic control measures needed or required.
2. Approach to constructing Pond Area
3. Spill Prevention, Control, and Countermeasures Plan (SPCC Plan)
4. Reporting of any safety violations or inspections

The Bidder's SPCC shall be in accordance with Section 1-07.15(1) of the WSDOT Standard Specifications.

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**FORM D: BONDING**

**CONFEDERATED TRIBES OF THE CHEHALIS INDIAN RESERVATION**

**REQUEST FOR PROPOSAL**

**EAGLE I ROADWAY IMPROVEMENTS**

**CONTRACT BOND**

(This is provided as information on what will be required of the successful bidder upon entering into a contract with the Chehalis Tribe.)

Bidders are not required to submit a Contract Bond as part of the RFP review process.

The successful bidder will be required to furnish a Performance Bond and Payment Bond written by a company licensed to do business in Washington in an amount equal to one hundred percent (100%) of the contract amount.

A performance and payment bond is a surety bond furnished by the Contractor and the Contractor's surety that guarantees performance of the Work and payment to laborers, mechanics, subcontractors, and material suppliers. The Contract Bond is intended to provide protection to the Tribe for the Contractor's obligations with respect to construction and post construction phases of the Project.

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**FORM E: SIGNATURE PAGE**

The undersigned hereby certifies that he/she has examined the location of: \*\*\* **Eagle I Roadway Improvements Project** \*\*\* and has read and thoroughly understands the plans, specifications, and contract governing the work in this improvement. The undersigned is deemed to have acknowledged all requirements and signed all certificates contained herein. The undersigned proposes to undertake and complete the work in this improvement

**ADDENDA ACKNOWLEDGEMENT**

Receipt of the following Addenda to the Plans and/or Specifications is hereto acknowledged:

<b>Addendum No.</b>	<b>Addendum Receipt Date</b>	<b>Signed Acknowledgement</b>
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____

NOTE: Failure to acknowledge receipt of the Addenda may be considered as an irregularity in the Proposal.

\_\_\_\_\_  
Bidder \_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor's Unified Business Identifier (UBI) No.

\_\_\_\_\_  
Contractor's License No.

\_\_\_\_\_  
Contractor's DUNS No.

\_\_\_\_\_  
Contractor's DOR State Excise Tax Reg. No.

By: \_\_\_\_\_  
Authorized Official

Address: \_\_\_\_\_  
\_\_\_\_\_

# Amendments to the Standard Specifications



## **INTRODUCTION**

The following Amendments and Special Provisions shall be used in conjunction with the 2016 Standard Specifications for Road, Bridge, and Municipal Construction.

### **AMENDMENTS TO THE STANDARD SPECIFICATIONS**

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

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

1-01.AP1

#### **Section 1-01, Definitions and Terms August 1, 2016**

##### **1-01.3 Definitions**

The following new term and definition is inserted after the eighth paragraph:

**Cold Weather Protection Period** – A period of time 7 days from the day of concrete placement or the duration of the cure period, whichever is longer.

1-02.AP1

#### **Section 1-02, Bid Procedures and Conditions June 1, 2017**

##### **1-02.4(1) General**

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

Any prospective Bidder desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing by close of business on the Thursday preceding the bid opening to allow a written reply to reach all prospective Bidders before the submission of their Bids.

##### **1-02.6 Preparation of Proposal**

In this section, “Disadvantaged Business Enterprise” is revised to read “Underutilized Disadvantaged Business Enterprise”, and “DBE” is revised to read “UDBE”.

##### **1-02.9 Delivery of Proposal**

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

The Contracting Agency will not open or consider any Proposal when the Proposal or Bid deposit is received after the time specified for receipt of Proposals or received in a location other than that specified for receipt of Proposals unless an emergency or unanticipated event interrupts normal work processes of the Contracting Agency so that Proposals cannot be received.

The following new paragraph is inserted before the last paragraph:

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.

### **1-02.12 Public Opening of Proposals**

This section is supplemented with the following new paragraph:

If an emergency or unanticipated event interrupts normal work processes of the Contracting Agency so that Proposals cannot be opened at the time indicated in the call for Bids the time specified for opening of Proposals will be deemed to be extended to the same time of day on the first work day on which the normal work processes of the Contracting Agency resume.

### **1-02.13 Irregular Proposals**

In this section, “Disadvantaged Business Enterprise” is revised to read “Underutilized Disadvantaged Business Enterprise”, and “DBE” is revised to read “UDBE”.

1-04.AP1

## **Section 1-04, Scope of the Work**

**June 1, 2017**

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

The following new paragraph is inserted before the second to last paragraph:

Whenever reference is made in these Specifications or the Special Provisions to codes, rules, specifications, and standards, the reference shall be construed to mean the code, rule, specification, or standard that is in effect on the Bid advertisement date, unless otherwise stated or as required by law.

### **1-04.3 Reference Information**

This section is supplemented with the following new sentence:

If a document that is provided as reference information contains material also included as a part of the Contract, that portion of the document shall be considered a part of the Contract and not as Reference Information.

### **1-04.4(2)A General**

Item number 4 in the third paragraph is revised to read:

4. Provide substitution for deleted or reduced Condition of Award Work, Apprenticeship Utilization and Training.



**Section 1-06, Control of Material  
January 4, 2016**

This section is supplemented with the following new section and subsections:

**1-06.6 Recycled Materials**

The Contractor shall make their best effort to utilize recycled materials in the construction of the project; the use of recycled concrete aggregate as specified in Section 1-06.6(1)A is a requirement of the Contract.

The Contractor shall submit a Recycled Material Utilization Plan as a Type 1 Working Drawing within 30 calendar days after the Contract is executed. The plan shall provide the Contractor's anticipated usage of recycled materials for meeting the requirements of these Specifications. The quantity of recycled materials will be provided in tons and as a percentage of the Plan quantity for each material listed in Section 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled Material. When a Contract does not include Work that requires the use of a material that is included in the requirements for using materials the Contractor may state in their plan that no recycled materials are proposed for use.

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.

**1-06.6(1) Recycling of Aggregate and Concrete Materials**

**1-06.6(1)A General**

The minimum quantity of recycled concrete aggregate shall be 25 percent of the total quantity of aggregate that is incorporated into the Contract for those items listed in Section 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled Material that allow the use of recycled concrete aggregate. The percentage of recycled material incorporated into the project for meeting the required percentage will be calculated in tons based on the quantity of recycled concrete used on the entire Contract and not as individual items.

If the Contractor's total cost for Work with recycled concrete aggregate is greater than without the Contractor may choose to not use recycled concrete aggregate. When the Contractor does not meet the minimum requirement of 25 percent recycled concrete aggregate for the Contract due to costs or any other reason the following shall be submitted:

1. A cost estimate for each material listed in Section 9-03.21(1)E that is utilized on the Contract. The cost estimate shall include the following:
  - a. The estimated costs for the Work for each material with 25 percent recycled concrete aggregate. The cost estimate shall include for each

material a copy of the price quote from the supplier with the lowest total cost for the Work.

- b. The estimated costs for the Work for each material without recycled concrete aggregate.

The Contractor's cost estimates shall be submitted as an attachment to the Recycled Materials Reporting form.

1-07.AP1

## **Section 1-07, Legal Relations and Responsibilities to the Public January 3, 2017**

### **1-07.1 Laws to be Observed**

In the second to last sentence of the third paragraph, "WSDOT" is revised to read "Contracting Agency".

### **1-07.2(2) State Sales Tax: WAC 458-20-170 – Retail Sales Tax**

The last three sentences of the first paragraph are deleted and replaced with the following new sentence:

The Contractor (Prime or Subcontractor) shall include sales or use tax on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project, in the unit bid prices.

### **1-07.3(1) Forest Fire Prevention**

This section is supplemented with the following new subsections:

#### **1-07.3(1)A Fire Prevention Control and Countermeasures Plan**

The Contractor shall prepare and implement a project-specific fire prevention, control, and countermeasures plan (FPCC Plan) for the duration of the project. The Contractor shall submit a Type 2 Working Drawing no later than the date of the preconstruction conference.

##### **1-07.3(1)A1 FPCC Plan Implementation Requirements**

The Contractor's FPCC Plan shall be fully implemented at all times. The Contractor shall update the FPCC Plan throughout project construction so that the plan reflects actual site conditions and practices. The Contractor shall update the FPCC Plan at least annually and maintain a copy of the updated FPCC Plan that is available for inspection on the project site. Revisions to the FPCC Plan and the Industrial Fire Precaution Level (IFPL) shall be discussed at the weekly project safety meetings.

##### **1-07.3(1)A2 FPCC Plan Element Requirements**

The FPCC Plan shall include the following:

1. The names, titles, and contact information for the personnel responsible for implementing and updating the plan.
2. The names and telephone numbers of the Federal, State, and local agencies the Contractor shall notify in the event of a fire.

3. All potential fire causing activities such as welding, cutting of metal, blasting, fueling operations, etc.
4. The location of fire extinguishers, water, shovels, and other firefighting equipment.
5. The response procedures the Contractor shall follow in the event of a fire.

Most of Washington State is covered under the IFPL system which, by law, is managed by the Department of Natural Resources (DNR). It is the Contractor's responsibility to be familiar with the DNR requirements and to verify whether or not IFPL applies to the specific project.

If the Contractor wishes to continue a work activity that is prohibited under an industrial fire precaution level, the Contractor shall obtain a waiver from the DNR and provide a copy to the Engineer prior to continuation of work on the project.

If the IFPL requirements prohibit the Contractor from performing Work the Contractor may be eligible for an unworkable day in accordance with Section 1-08.5.

The Contractor shall comply with the requirements of these provisions at no additional cost to the Contracting Agency.

### **1-07.8 High-Visibility Apparel**

The last paragraph is revised to read:

High-visibility garments shall be labeled as, and in a condition compliant with the ANSI/ISEA 107 (2004 or later version) and shall be used in accordance with manufacturer recommendations.

#### **1-07.8(1) Traffic Control Personnel**

In this section, references to "ANSI/ISEA 107-2004" are revised to read "ANSI/ISEA 107".

#### **1-07.8(2) Non-Traffic Control Personnel**

In this section, the reference to "ANSI/ISEA 107-2004" is revised to read "ANSI/ISEA 107".

#### **1-07.9(2) Posting Notices**

Items 1 and 2 are revised to read:

1. EEOC - P/E-1 (revised 11/09, supplemented 09/15) – **Equal Employment Opportunity IS THE LAW** published by US Department of Labor. Post for projects with federal-aid funding.
2. FHWA 1022 (revised 05/15) – **NOTICE Federal-Aid Project** published by Federal Highway Administration (FHWA). Post for projects with federal-aid funding.

Items 5, 6 and 7 are revised to read:

5. WHD 1420 (revised 02/13) – **Employee Rights and Responsibilities Under The Family And Medical Leave Act** published by US Department of Labor. Post on all projects.

6. WHD 1462 (revised 01/16) – **Employee Polygraph Protection Act** published by US Department of Labor. Post on all projects.
7. F416-081-909 (revised 09/15) – **Job Safety and Health Law** published by Washington State Department of Labor and Industries. Post on all projects.

Items 9 and 10 are revised to read:

9. F700-074-909 (revised 06/13) – **Your Rights as a Worker in Washington State** by Washington State Department of Labor and Industries (L&I). Post on all projects.
10. EMS 9874 (revised 10/15) – **Unemployment Benefits** published by Washington State Employment Security Department. Post on all projects.

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

The second sentence of the first paragraph is deleted.

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

The SPCC Plan shall address all fuels, petroleum products, hazardous materials, and other materials defined in Chapter 447 of the WSDOT Environmental Manual M 31-11.

Item number four of the fourth paragraph (up until the colon) is revised to read:

4. **Potential Spill Sources** – Describe each of the following for all potentially hazardous materials brought or generated on-site, including but not limited to materials used for equipment operation, refueling, maintenance, or cleaning:

The first sentence of item 7e of the fourth paragraph is revised to read:

BMP methods and locations where they are used to prevent discharges to ground or water during mixing and transfer of hazardous materials and fuel.

The last paragraph is deleted.

1-08.AP1

## **Section 1-08, Prosecution and Progress June 1, 2017**

### **1-08.1 Subcontracting**

The eighth and ninth paragraphs are revised to read:

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

The Contractor shall comply with the requirements of RCW 39.04.250, 39.76.011, 39.76.020, and 39.76.040, in particular regarding prompt payment to Subcontractors. Whenever the Contractor withholds payment to a Subcontractor for any reason including disputed amounts, the Contractor shall provide notice within 10 calendar days to the Subcontractor with a copy to the Contracting Agency identifying the reason for the withholding and a clear description of what the Subcontractor must do to have the withholding released. Retainage withheld by the Contractor prior to completion of the Subcontractors work is exempt from reporting as a payment withheld and is not included in the withheld amount. The Contracting Agency's copy of the notice to Subcontractor for deferred payments shall be submitted to the Engineer concurrently with notification to the Subcontractor.

### **1-08.1(1) Prompt Payment, Subcontract Completion and Return of Retainage Withheld**

In item number 5 of the first paragraph, "WSDOT" is revised to read "Contracting Agency".

The last sentence in item number 11 of the first paragraph is revised to read:

The Contractor may also require any documentation from the Subcontractor that is required by the subcontract or by the Contract between the Contractor and Contracting Agency or by law such as affidavits of wages paid, and material acceptance certifications to the extent that they relate to the Subcontractor's Work.

Item number 12 of the first paragraph is revised to read:

12. If the Contractor fails to comply with the requirements of the Specification and the Subcontractor's retainage or retainage bond is wrongfully withheld, the Contractor will be subject to the actions described in No. 7 listed above. The Subcontractor may also seek recovery against the Contractor under applicable prompt pay statutes in addition to any other remedies provided for by the subcontract or by law.

### **1-08.5 Time for Completion**

In item 2c of the last paragraph, "Quarterly Reports" is revised to read "Monthly Reports".

1-09.AP1

## **Section 1-09, Measurement and Payment April 4, 2016**

### **1-09.6 Force Account**

The second sentence of item number 4 is revised to read:

A "specialized service" is a work operation that is not typically done by worker classifications as defined by the Washington State Department of Labor and Industries and by the Davis Bacon Act, and therefore bills by invoice for work in road, bridge and municipal construction.

1-10.AP1

**Section 1-10, Temporary Traffic Control  
January 3, 2017**

**1-10.1(2) Description**

The first paragraph is revised to read:

The Contractor shall provide flaggers and all other personnel required for labor for traffic control activities that are not otherwise specified as being furnished by the Contracting Agency.

In the third paragraph, "Project Engineer" is revised to read "Engineer".

The following new paragraph is inserted after the third paragraph:

The Contractor shall keep lanes, on-ramps, and off-ramps, open to traffic at all times except when Work requires closures. Ramps shall not be closed on consecutive interchanges at the same time, unless approved by the Engineer. Lanes and ramps shall be closed for the minimum time required to complete the Work. When paving hot mix asphalt the Contractor may apply water to the pavement to shorten the time required before reopening to traffic.

**1-10.3(2)C Lane Closure Setup/Takedown**

The following new paragraph is inserted before the last paragraph:

Channelization devices shall not be moved by traffic control personnel across an open lane of traffic. If an existing setup or staging of traffic control devices require crossing an open lane of traffic, the traffic control devices shall be taken down completely and then set up in the new configuration.

2-03.AP2

**Section 2-03, Roadway Excavation and Embankment  
August 1, 2016**

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

The second paragraph is revised to read:

The Contractor shall acquire all permits and approvals required for the use of the disposal sites before any waste is hauled off the project. The Contractor shall submit a Type 1 Working Drawing consisting of copies of the permits and approvals for any disposal sites to be used. The cost of any such permits and approvals shall be included in the Bid prices for other Work.

The third paragraph is deleted.

2-06.AP2

**Section 2-06, Subgrade Preparation  
January 3, 2017**

**2-06.3(2) Subgrade for Pavement**

The second sentence in the first paragraph is revised to read:

The Contractor shall compact the Subgrade to a depth of 6 inches to 95 percent of maximum density as determined by the compaction control tests for granular materials.

3-04.AP3

**Section 3-04, Acceptance of Aggregate  
January 3, 2017**

**3-04.5 Payment**

In Table 1, the **Contingent Unit Price Per Ton** value for the item HMA Aggregate is revised to read "\$15.00".

4-04.AP4

**Section 4-04, Ballast and Crush Surfacing  
January 3, 2017**

**4-04.3(5) Shaping and Compaction**

The first sentence is revised to read:

Immediately following spreading and final shaping, each layer of surfacing shall be compacted to at least 95 percent of maximum density determined by the requirements of Section 2-03.3(14)D before the next succeeding layer of surfacing or pavement is placed.

5-01.AP5

**Section 5-01, Cement Concrete Pavement Rehabilitation  
January 3, 2017**

In this section, "portland cement" is revised to read "cement".

**5-01.2 Materials**

In the first paragraph, the following item is inserted after the item "Joint Sealants":

Closed Cell Foam Backer Rod      9-04.2(3)A

**5-01.3(1)A Concrete Mix Designs**

This section, including title, is revised to read:

**5-01.3(1)A Mix Designs**

The Contractor shall use either concrete patching materials or cement concrete for the rehabilitation of cement concrete pavement. Concrete patching materials shall be used for spall repair and dowel bar retrofitting and cement concrete shall be used for concrete panel replacement.

**5-01.3(1)A1 Concrete Patching Materials**

Item number 1 is revised to read:

1. **Materials** – The prepackaged concrete patching material and the aggregate extender shall conform to Section 9-20.

### **5-01.3(1)A2 Portland Cement Concrete**

This section, including title, is revised to read:

#### **5-01.3(1)A2 Cement Concrete for Panel Replacement**

Cement concrete for panel replacement shall meet the requirements of Sections 5-05.3(1) and 5-05.3(2) and be air entrained with a design air content of 5.5 percent. Cement concrete for panel replacement may use rapid hardening hydraulic cement meeting the requirements of Section 9-01.2(2). Rapid hardening hydraulic cement will be considered a cementitious material for the purpose of calculating the water/cementitious materials ratio and the minimum cementitious materials requirement.

### **5-01.3(1)B Equipment**

This section's title is revised to read:

#### **Equipment for Panel Replacement**

### **5-01.3(2)B Portland Cement Concrete**

This section's title is revised to read:

#### **Cement Concrete for Panel Replacement**

This section is supplemented with the following new subsection:

#### **5-01.3(2)B1 Conformance to Mix Design**

Acceptance of cement concrete pavement for panel replacement shall be in accordance with Section 5-01.3(2)B. The cement, coarse, and fine aggregate weights shall be within the tolerances of the mix design in accordance with Section 5-05.3(1).

### **5-01.3(2)B1 Rejection of Concrete**

This section is renumbered as follows:

#### **5-01.3(2)B2 Rejection of Concrete**

### **5-01.3(4) Replace Portland Cement Concrete Panel**

This section's title is revised to read:

#### **Replace Cement Concrete Panel**

### **5-01.3(8) Sealing Existing Transverse and Longitudinal Joints**

This section's title is revised to read:

#### **Sealing Existing Longitudinal and Transverse Joint**

The first paragraph is revised to read:

The Contractor shall clean and seal existing longitudinal and transverse joints where shown in the Plans or as marked by the Engineer.



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

Old sealant and incompressible material shall be completely removed from the joint to the depth of the new reservoir with a diamond blade saw in accordance with the detail shown in the Standard Plans.

The fifth paragraph is revised to read:

Immediately prior to sealing, the cracks shall be blown clean with dry oil-free compressed air. If shown in the Plans, a backer rod shall be placed at the base of the sawn reservoir. The joints shall be completely dry before the sealing installation may begin. Immediately following the air blowing and backer rod placement, if required, the sealant material shall be installed in conformance to manufacturer's recommendations and in accordance with Section 5-05.3(8)B.

### **5-01.3(9) Portland Cement Concrete Pavement Grinding**

This section's title is revised to read:

#### **Cement Concrete Pavement Grinding**

### **5-01.3(11) Concrete Slurry and Grinding Residue**

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

Slurry shall not be allowed to drain into an area open to traffic, off of the paved surface, into any drainage structure, water of the state, or wetlands.

The following new sentence is inserted at the end of the second paragraph:

The Contractor shall submit copies of all disposal tickets to the Engineer within 5 calendar days.

### **5-01.4 Measurement**

The fourth paragraph is revised to read:

Sealing existing longitudinal and transverse joint will be measured by the linear foot, measured along the line of the completed joint.

### **5-01.5 Payment**

The Bid item "Sealing Transverse and Longitudinal Joints", per linear foot and the paragraph following Bid item are revised to read:

"Sealing Existing Longitudinal and Transverse Joint", per linear foot.

The unit Contract price per linear foot for "Sealing Existing Longitudinal and Transverse Joint", shall be full payment for all costs to complete the Work as specified, including removing incompressible material, preparing and sealing existing transverse and longitudinal joints where existing transverse and longitudinal joints are cleaned and for all incidentals required to complete the Work as specified.

5-02.AP5

**Section 5-02, Bituminous Surface Treatment  
April 4, 2016**

**5-02.3(2) Preparation of Roadway Surface**

This section is supplemented with the following new subsection:

**5-02.3(2)E Crack Sealing**

Where shown in the Plans, seal cracks and joints in the pavement in accordance with Section 5-04.3(4)A1 and the following:

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

5-04.AP5

**Section 5-04, Hot Mix Asphalt  
April 3, 2017**

This section (and all subsections) is revised to read:

This Section 5-04 is written in a style which, unless otherwise indicated, shall be interpreted as direction to the Contractor.

**5-04.1 Description**

This Work consists 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.

HMA shall be composed of asphalt binder and mineral materials as required, and may include reclaimed asphalt pavement (RAP) or reclaimed asphalt shingles (RAS), mixed in the proportions specified to provide a homogeneous, stable, and workable mix.

**5-04.2 Materials**

Provide materials as specified in these sections:

Asphalt Binder	9-02.1(4)
Cationic Emulsified Asphalt	9-02.1(6)
Anti-Stripping Additive	9-02.4
Warm Mix Asphalt Additive	9-02.5
Aggregates	9-03.8
Reclaimed Asphalt Pavement (RAP)	9-03.8(3)B
Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B
Mineral Filler	9-03.8(5)
Recycled Material	9-03.21
Joint Sealants	9-04.2
Closed Cell Foam Backer Rod	9-04.2(3)A

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

Comply with each of the following:

- Develop the mix design in accordance with WSDOT SOP 732.
- Develop a mix design that complies with Sections 9-03.8(2) and 9-03.8(6).
- Develop a mix design no more than 6 months prior to submitting it for QPL evaluation.
- Submit mix designs to the WSDOT State Materials Laboratory in Tumwater, including WSDOT Form 350-042.
- Include representative samples of the materials that are to be used in the HMA production as part of the mix design submittal.
- Identify the brand, type, and percentage of anti-stripping additive in the mix design submittal.
- Include with the mix design submittal a certification from the asphalt binder supplier that the anti-stripping additive is compatible with the crude source and the formulation of asphalt binder proposed for use in the mix design.
- Do not include warm mix asphalt (WMA) additives when developing a mix design or submitting a mix design for QPL evaluation. The use of warm mix asphalt (WMA) additives is not part of the process for obtaining approval for listing a mix design on the QPL. Refer to Section 5-04.2(2)B.

The Contracting Agency’s basis for approving, testing, and evaluating HMA mix designs for approval on the QPL is dependent on the contractual basis for acceptance of the HMA mixture, as shown in Table 1.

Table 1

<b>Basis for Contracting Agency Evaluation of HMA Mix Designs for Approval on the QPL</b>		
<b>Contractual Basis for Acceptance of HMA Mixture (see Section 5-04.3(9))</b>	<b>Basis for Contracting Agency Approval of Mix Design for Placement on QPL</b>	<b>Contracting Agency Materials Testing for Evaluation of the Mix Design</b>
Statistical Evaluation	WSDOT Standard Practice QC-8	The Contracting Agency will test the mix design materials for compliance with Sections 9-03.8(2) and 9-03.8(6).
Visual Evaluation	Review of Form 350-042 for compliance with Sections 9-03.8(2) and 9-03.8(6)	The Contracting Agency may elect to test the mix design materials, or evaluate in accordance with WSDOT Standard Practice QC-8, at its sole discretion.

If the Contracting Agency approves the mix design, it will be listed on the QPL for 12 consecutive months. The Contracting Agency may extend the 12 month listing provided the Contractor submits a certification letter to the Qualified Products Engineer verifying that the aggregate source and job mix formula (JMF) gradation, and asphalt binder crude source and formulation have not changed. The Contractor may submit the certification no sooner than three months prior to expiration of the initial 12 month mix design approval. Within 7 calendar days of receipt of the Contractor's certification, the Contracting Agency will update the QPL. The maximum duration for approval of a mix design and listing on the QPL will be 24 months from the date of initial approval or as approved by the Engineer.

**5-04.2(1)A Mix Designs Containing RAP and/or RAS**

Mix designs are classified by the RAP and/or RAS content as shown in Table 2.

Table 2

<b>Mix Design Classification Based on RAP/RAS Content</b>	
<b>RAP/RAS Classification</b>	<b>RAP/RAS Content<sup>1</sup></b>
Low RAP/No RAS	$0\% \leq \text{RAP}\% \leq 20\%$ and $\text{RAS}\% = 0\%$
High RAP/Any RAS	$20\% < \text{RAP}\% \leq \text{Maximum Allowable RAP}^2$ and/or $0\% < \text{RAS}\% \leq \text{Maximum Allowable RAS}^2$

<sup>1</sup>Percentages in this table are by total weight of HMA

<sup>2</sup>See Table 4 to determine the limits on the maximum amount RAP and/or RAS.

**5-04.2(1)A1 Low RAP/No RAS – Mix Design Submittals for Placement on QPL**

For Low RAP/No RAS mix designs, comply with the following additional requirements:

1. Develop the mix design with or without the inclusion of RAP.
2. The asphalt binder grade shall be the grade indicated in the Bid item name or as otherwise required by the Contract.
3. Submit samples of RAP if used in development of the mix design.
4. Testing RAP or RAS stockpiles is not required for obtaining approval for placing these mix designs on the QPL.

**5-04.2(1)A2 High RAP/Any RAS - Mix Design Submittals for Placement on QPL**

For High RAP/Any RAS mix designs, comply with the following additional requirements:

1. For mix designs with any RAS, test the RAS stockpile (and RAP stockpile if any RAP is in the mix design) in accordance with Table 3.
2. For High RAP mix designs with no RAS, test the RAP stockpile in accordance with Table 3.
3. For mix designs with High RAP/Any RAS, construct a single stockpile for RAP and a single stockpile for RAS and isolate (sequester) these stockpiles from further stockpiling before beginning development of the mix design. Test the RAP and RAS during stockpile construction as required by item 1 and 2 above. Use the test data in developing the mix design, and report the test data to the Contracting Agency on WSDOT Form 350-042 as part of the mix design submittal for approval on the QPL. Account for the reduction in asphalt binder contributed from RAS in accordance with AASHTO PP 78. Do not add to these stockpiles after starting the mix design process.

Table 3

<b>Test Frequency of RAP/RAS During RAP/RAS Stockpile Construction For Approving a High RAP/Any RAS Mix Design for Placement on the QPL</b>		
Test Frequency <sup>1</sup>	Test for	Test Method
<ul style="list-style-type: none"> <li>• 1/1000 tons of RAP (minimum of 10 per mix design) and</li> <li>• 1/100 tons of RAS (minimum of 10 per mix design)</li> </ul>	Asphalt Binder Content and Sieve Analysis of Fine and Coarse Aggregate	FOP for AASHTO T 308 and FOP for WAQTC T 27/T 11

<sup>1</sup>"tons", in this table, refers to tons of the reclaimed material before being incorporated into HMA.

4. Limit the amount of RAP and/or RAS used in a High RAP/Any RAS mix design by the amount of binder contributed by the RAP and/or RAS, in accordance with Table 4.

Table 4

<b>Maximum Amount of RAP and/or RAS in HMA Mixture</b>	
Maximum Amount of Binder Contributed from:	
RAP	RAS
40% <sup>1</sup> minus contribution of binder from RAS	20% <sup>2</sup>

<sup>1</sup> Calculated as the weight of asphalt binder contributed from the RAP as a percentage of the total weight of asphalt binder in the mixture.

<sup>2</sup> Calculated as the weight of asphalt binder contributed from the RAS as a percentage of the total weight of asphalt binder in the mixture.

5. Develop the mix design including RAP, RAS, recycling agent, and new binder.
6. Extract, recover, and test the asphalt residue from the RAP and RAS stockpiles to determine the percent of recycling agent and/or grade of new asphalt binder needed to meet but not exceed the performance grade (PG) of asphalt binder required by the Contract.
  - a. Perform the asphalt extraction in accordance with AASHTO T 164 or ASTM D 2172 using reagent grade solvent.
  - b. Perform the asphalt recovery in accordance with AASHTO R 59 or ASTM D 1856.
  - c. Test the recovered asphalt residue in accordance with AASHTO R 29 to determine the asphalt binder grade in accordance with Section 9-02.1(4).
  - d. After determining the recovered asphalt binder grade, determine the percent of recycling agent and/or grade of new asphalt binder in accordance with ASTM D 4887.
  - e. Test the final blend of recycling agent, binder recovered from the RAP and RAS, and new asphalt binder in accordance with AASHTO R 29. The final blended binder shall meet but not exceed the performance grade of asphalt binder required by the Contract and comply with the requirements of Section 9-02.1(4).
7. Include the following test data with the mix design submittal:
  - a. All test data from RAP and RAS stockpile construction.
  - b. All data from testing the recovered and blended asphalt binder.
8. Include representative samples of the following with the mix design submittal:
  - a. RAP and RAS.
  - b. 150 grams of recovered asphalt residue from the RAP and RAS that are to be used in the HMA production.

**5-04.2(1)B Commercial HMA - Mix Design Submittal for Placement on QPL**

For HMA used in the Bid item Commercial HMA, in addition to the requirements of 5-04.2(1) identify the following in the submittal:

1. Commercial HMA
2. Class of HMA

3. Performance grade of binder
4. Equivalent Single Axle Load (ESAL)

The Contracting Agency may elect to approve Commercial HMA mix designs without evaluation.

#### **5-04.2(1)C Mix Design Resubmittal for QPL Approval**

Develop a new mix design and resubmit for approval on the QPL when any of the following changes occur. When these occur, discontinue using the mix design until after it is reapproved on the QPL.

1. Change in the source of crude petroleum used in the asphalt binder.
2. Changes in the asphalt binder refining process.
3. Changes in additives or modifiers in the asphalt binder.
4. Changes in the anti-strip additive, brand, type or quantity.
5. Changes to the source of material for aggregate.
6. Changes to the job mix formula that exceed the amounts as described in item 2 of Section 9-03.8(7), unless otherwise approved by the Engineer.
7. Changes in the percentage of material from a stockpile, when such changes exceed 5% of the total aggregate weight.
  - a. For Low RAP/No RAS mix designs developed without RAP, changes to the percentage of material from a stockpile will be calculated based on the total aggregate weight not including the weight of RAP.
  - b. For Low RAP/No RAS mix designs developed with RAP, changes to the percentage of material from a stockpile will be calculated based on the total aggregate weight including the weight of RAP.
  - c. For High RAP/Any RAS mix designs, changes in the percentage of material from a stockpile will be based on total aggregate weight including the weight of RAP (and/or RAS when included in the mixture).

Prior to making any change in the amount of RAS in an approved mix design, notify the Engineer for determination of whether a new mix design is required, and obtain the Engineer's approval prior to implementing such changes.

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

Use only mix designs listed on the Qualified Products List (QPL). Submit WSDOT Form 350-041 to the Engineer to request approval to use a mix design from the

QPL. Changes to the job mix formula (JMF) that have been approved on other contracts may be included. The Engineer may reject a request to use a mix design if production of HMA using that mix design on any contract is not in compliance with Section 5-04.3(11)D, E, F, and G for mixture or compaction.

**5-04.2(2)A Changes to the Job Mix Formula**

The approved mix design obtained from the QPL will be considered the starting job mix formula (JMF) and shall be used as the initial basis for acceptance of HMA mixture, as detailed in Section 5-04.3(9).

During production the Contractor may request to adjust the JMF. Any adjustments to the JMF will require approval of the Engineer and shall be made in accordance with item 2 of Section 9-03.8(7). After approval by the Engineer, such adjusted JMF's shall constitute the basis for acceptance of the HMA mixture.

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

The Contractor may, at the Contractor's discretion, elect to use warm mix asphalt (WMA) processes for producing HMA. WMA processes include organic additives, chemical additives, and foaming. The use of WMA is subject to the following:

- Do not use WMA processes in the production of High RAP/Any RAS mixtures.
- Before using WMA processes, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed WMA 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 1<sup>st</sup> through March 31<sup>st</sup> 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 in Table 5, or when weather conditions otherwise prevent the proper handling or finishing of the HMA.

Table 5

Minimum Surface Temperature for Paving		
Compacted Thickness (Feet)	Wearing Course	Other Courses
Less than 0.10	55°F	45°F
0.10 to 0.20	45°F	35°F
More than 0.20	35°F	35°F

**5-04.3(2) Paving Under Traffic**

These requirements apply when the Roadway being paved is open to traffic.

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.



During paving operations, maintain temporary pavement markings throughout the project. Install temporary pavement markings on the Roadway prior to opening to traffic. Temporary pavement markings shall comply with Section 8-23.

### **5-04.3(3) Equipment**

#### **5-04.3(3)A Mixing Plant**

Equip mixing plants as follows.

1. **Use tanks for storage and preparation of asphalt binder which:**
  - Heat the contents by means that do not allow flame to contact the contents or the tank, such as by steam or electricity.
  - Heat and hold contents at the required temperatures.
  - Continuously circulate contents to provide uniform temperature and consistency during the operating period.
  - Provide an asphalt binder sampling valve, in either the storage tank or the supply line to the mixer.
2. **Provide thermometric equipment:**
  - In the asphalt binder feed line near the charging valve at the mixer unit, capable of detecting temperature ranges expected in the HMA and in a location convenient and safe for access by Inspectors.
  - At the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates, and situated in full view of the plant operator.
3. **When heating asphalt binder:**
  - Do not exceed the maximum temperature of the asphalt binder recommended by the asphalt binder supplier.
  - Avoid local variations in heating.
  - Provide a continuous supply of asphalt binder to the mixer at a uniform average temperature with no individual variations exceeding 25°F.
4. **Provide a mechanical sampler for sampling mineral materials that:**
  - Meets the crushing or screening requirements of Section 1-05.6.

5. **Provide HMA sampling equipment that complies with WSDOT T168.**
  - Use a mechanical sampling device installed between the discharge of the silo and the truck transport, approved by the Engineer, or
  - Platforms or devices to enable sampling from the truck transport without entering the truck transport for sampling HMA.
6. **Provide for setup and operation of the Contracting Agency's field testing:**
  - As required in Section 3-01.2(2).
7. **Provide screens or a lump breaker:**
  - When using any RAP or any RAS, to eliminate oversize RAP or RAS particles from entering the pug mill or drum mixer.

#### **5-04.3(3)B Hauling Equipment**

Provide HMA hauling equipment with tight, clean, smooth metal beds and a cover of canvas or other suitable material of sufficient size to protect the HMA from adverse weather. Securely attach the cover to protect the HMA whenever the weather conditions during the work shift include, or are forecast to include, precipitation or an air temperature less than 45°F.

Prevent HMA from adhering to the hauling equipment. Spray metal beds with an environmentally benign release agent. Drain excess release agent prior to filling hauling equipment with HMA. Do not use petroleum derivatives or other coating material that contaminate or alter the characteristics of the HMA. For hopper trucks, operate the conveyer during the process of applying the release agent.

#### **5-04.3(3)C Pavers**

Use self-contained, power-propelled pavers provided with an internally heated vibratory screed that is capable of spreading and finishing courses of HMA in lane widths required by the paving section shown in the Plans.

When requested by the Engineer, provide written certification that the paver is equipped with the most current equipment available from the manufacturer for the prevention of segregation of the coarse aggregate particles. The certification shall list the make, model, and year of the paver and any equipment that has been retrofitted to the paver.

Operate the screed in accordance with the manufacturer's recommendations and in a manner to produce a finished surface of the required evenness and texture without tearing, shoving, segregating, or gouging the mixture. Provide a copy of the manufacturer's recommendations upon request by the Contracting Agency. Extensions to the screed will be allowed provided they produce the same results, including ride, density, and surface texture as

obtained by the primary screed. In the Travelled Way do not use extensions without both augers and an internally heated vibratory screed.

Equip the paver with automatic screed controls and sensors for either or both sides of the paver. The controls shall be capable of sensing grade from an outside reference line, sensing the transverse slope of the screed, and providing automatic signals that operate the screed to maintain the desired grade and transverse slope. Construct the sensor so it will operate from a reference line or a mat referencing device. The transverse slope controller shall be capable of maintaining the screed at the desired slope within plus or minus 0.1 percent.

Equip the paver with automatic feeder controls, properly adjusted to maintain a uniform depth of material ahead of the screed.

Manual operation of the screed is permitted in the construction of irregularly shaped and minor areas. These areas include, but are not limited to, gore areas, road approaches, tapers and left-turn channelizations.

When specified in the Contract, provide reference lines for vertical control. Place reference lines on both outer edges of the Traveled Way of each Roadway. Horizontal control utilizing the reference line is permitted. Automatically control the grade and slope of intermediate lanes by means of reference lines or 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 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.

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.

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

Use a material transfer device (MTD) or material transfer vehicle (MTV) to deliver the HMA from the hauling equipment to the paving machine for any lift in (or partially in) the top 0.30 feet of the pavement section used in traffic lanes. However, an MTD/V is not required for HMA placed in irregularly shaped and minor areas such as tapers and turn lanes, or for HMA mixture that is accepted by Visual Evaluation. At the Contractor's request the Engineer may approve paving without an MTD/V; the Engineer will determine if an equitable adjustment in cost or time is due. If a windrow elevator is used, the Engineer may limit the length of the windrow in urban areas or through intersections.

To be approved for use, an MTV:

1. Shall be a self-propelled vehicle, separate from the hauling vehicle or paver.
2. Shall not 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**

Operate rollers in accordance with the manufacturer's recommendations. When requested by the Engineer, provide a Type 1 Working Drawing of the manufacturer's recommendation for the use of any roller planned for use on the project. Do not use rollers that crush aggregate, produce pickup or washboard, unevenly compact the surface, displace the mix, or produce other undesirable results.

#### **5-04.3(4) Preparation of Existing Paved Surfaces**

Before constructing HMA on an existing paved surface, the entire surface of the pavement shall be clean. Entirely remove all fatty asphalt patches, grease drippings, and other deleterious substances from the existing pavement to the satisfaction of the Engineer. Thoroughly clean all pavements or bituminous surfaces of dust, soil, pavement grindings, and other foreign matter. Thoroughly remove any cleaning or solvent type liquids used to clean equipment spilled on the pavement before paving proceeds. Fill all holes and small depressions with an appropriate class of HMA. Level and thoroughly compact the surface of the patched area.

Apply a uniform coat of asphalt (tack coat) to all paved surfaces on which any course of HMA is to be placed or abutted. Apply tack coat to cover the cleaned existing pavement with a thin film of residual asphalt free of streaks and bare spots.

Apply a heavy application of tack coat to all joints. For Roadways open to traffic, limit the application of tack coat to surfaces that will be paved during the same working shift. Equip the spreading equipment with a thermometer to indicate the temperature of the tack coat material.

Do not operate equipment on tacked surfaces until the tack has broken and cured. Repair tack coat damaged by the Contractor's operation, prior to placement of the HMA.

Unless otherwise approved by the Engineer, use cationic emulsified asphalt CSS-1, CSS-1h, STE-1, or Performance Graded (PG) asphalt for tack coat. The CSS-1 and CSS-1h may be diluted with water at a rate not to exceed one part water to one part emulsified asphalt. Do not allow the tack coat material to exceed the maximum temperature recommended by the asphalt supplier.

When shown in the Plans, prelevel uneven or broken surfaces over which HMA is to be placed by using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.

#### **5-04.3(4)A Crack Sealing**

##### **5-04.3(4)A1 General**

When the Proposal includes a pay item for crack sealing, seal all cracks  $\frac{1}{4}$  inch in width and greater.

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

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

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

pavement surface, stop and correct the operation to eliminate the excess material.

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

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

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

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

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

**5-04.3(4)B Soil Residual Herbicide**

Where shown in the Plans, apply one application of an approved soil residual herbicide. Comply with Section 8-02.3(3)B. Complete paving within 48 hours of applying the herbicide.

Use herbicide registered with the Washington State Department of Agriculture for use under pavement. Before use, obtain the Engineer's approval of the herbicide and the proposed rate of application. Include the following information in the request for approval of the material:

1. Brand Name of the Material,
2. Manufacturer,
3. Environmental Protection Agency (EPA) Registration Number,
4. Material Safety Data Sheet, and
5. Proposed Rate of Application.

**5-04.3(4)C Pavement Repair**

Excavate pavement repair areas and backfill these with HMA in accordance with the details shown in the Plans and as staked. Conduct the excavation operations in a manner that will protect the pavement that is to remain. Repair pavement not designated to be removed that is damaged as a result of the Contractor's operations to the satisfaction of the Engineer at no cost to the Contracting Agency. Excavate only within one lane at a time unless approved otherwise by the Engineer. Do not excavate more area than can be completely backfilled and compacted during the same shift.

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, sawcut the perimeter of the pavement area to be removed unless the pavement in the pavement repair area is to be removed by a pavement grinder.

Excavated materials shall be 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.

Apply a heavy application of tack coat to all surfaces of existing pavement in the pavement repair area, in accordance with Section 5-04.3(4).

Place the HMA backfill in lifts not to exceed 0.35-foot compacted depth. Thoroughly compact each lift by a mechanical tamper or a roller.

**5-04.3(5) Producing/Stockpiling Aggregates, RAP, & RAS**

Produce aggregate in compliance with Section 3-01. Comply with Section 3-02 for preparing stockpile sites, stockpiling, and removing from stockpile each of the following: aggregates, RAP, and RAS. Provide sufficient storage space for each size of aggregate, RAP and RAS. Fine aggregate or RAP may be uniformly blended with the RAS as a method of preventing the agglomeration of RAS particles. Remove the aggregates, RAP and RAS from stockpile(s) in a manner that ensures minimal segregation when being moved to the HMA plant for processing into the final mixture. Keep different aggregate sizes separated until they have been delivered to the HMA plant.

**5-04.3(5)A Stockpiling RAP or RAS for High RAP/Any RAS Mixes**

Do not place any RAP or RAS into a stockpile which has been sequestered for a High RAP/Any RAS mix design. Do not incorporate any RAP or RAS into a High RAP/Any RAS mixture from any source other than the stockpile which was sequestered for approval of that particular High RAP/Any RAS mix design.

RAP that is used in a Low RAP/No RAS mix is not required to come from a sequestered stockpile.

**5-04.3(6) Mixing**

The asphalt supplier shall introduce anti-stripping additive, in the amount designated on the QPL for the mix design, into the asphalt binder prior to shipment to the asphalt mixing plant.

Anti-strip is not required for temporary work that will be removed prior to Physical Completion.

Use asphalt binder of the grade, and from the supplier, in the approved mix design.

Prior to introducing reclaimed materials into the asphalt plant, remove wire, nails, and other foreign material. Discontinue use of the reclaimed material if the Engineer, in their sole discretion, determines the wire, nails, or other foreign material to be excessive.

Size RAP and RAS prior to entering the mixer to provide uniform and thoroughly mixed HMA. If there is evidence of the RAP or RAS not breaking down during the heating and mixing of the HMA, immediately suspend the use of the RAP or RAS until changes have been approved by the Engineer.

After the required amount of mineral materials, RAP, RAS, new asphalt binder and recycling agent have been introduced into the mixer, mix the HMA until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials, RAP and RAS is ensured.

Upon discharge from the mixer, ensure that the temperature of the HMA does not exceed the optimum mixing temperature shown on the approved Mix Design Report by more than 25°F, or as approved by the Engineer. When a WMA additive is included in the manufacture of HMA, do not heat the WMA additive (at any stage of production including in binder storage tanks) to a temperature higher than 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, reduce the moisture content.

During the daily operation, HMA may be temporarily held in approved storage facilities. Do not incorporate HMA into the Work that has been held for more than 24 hours after mixing. Provide an easily readable, low bin-level indicator on the storage facility that indicates the amount of material in storage. Waste the HMA in storage when the top level of HMA drops 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. Dispose of rejected or waste HMA at no expense to the Contracting Agency.

**5-04.3(7) Spreading and Finishing**

Do not exceed the maximum nominal compacted depth of any layer in any course, as shown in Table 6, unless approved by the Engineer:

Table 6

<b>Maximum Nominal Compacted Depth of Any Layer</b>		
<b>HMA Class</b>	<b>Wearing Course</b>	<b>Other than Wearing Course</b>
1 inch	0.35 feet	0.35 feet
¾ and ½ inch	0.30 feet	0.35 feet
⅜ inch	0.15 feet	0.15 feet

Use HMA pavers complying with Section 5-04.3(3) to distribute the mix. 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, place the material produced for each JMF with separate spreading and compacting equipment. Do not intermingle HMA produced from more than one JMF. 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**

Sample aggregate for meeting the requirements of Section 3-04 prior to being incorporated into HMA. (The acceptance data generated for the Section 3-04 acceptance analysis will not be commingled with the acceptance data generated for the Section 5-04.3(9) acceptance analysis.) Aggregate acceptance samples shall be taken as described in Section 3-04. Aggregate acceptance testing will be performed by the Contracting Agency. Aggregate contributed from RAP and/or RAS will not be evaluated under Section 3-04.

For aggregate that will be used in HMA mixture which will be accepted by Statistical Evaluation, the Contracting Agency’s acceptance of the aggregate will be based on:

1. Samples taken prior to mixing with asphalt binder, RAP, or RAS;
2. Testing for the materials properties of fracture, uncompacted void content, and sand equivalent;
3. Evaluation by the Contracting Agency in accordance with Section 3-04, including price adjustments as described therein.

For aggregate that will be used in HMA which will be accepted by Visual Evaluation, evaluation in accordance with items 1, 2, and 3 above is at the discretion of the Engineer.

**5-04.3(9) HMA Mixture Acceptance**

The Contracting Agency will evaluate HMA mixture for acceptance by one of two methods as determined from the criteria in Table 7.

Table 7

<b>Basis of Acceptance for HMA Mixture</b>		
	<b>Visual Evaluation</b>	<b>Statistical Evaluation</b>
<b>Criteria for Selecting the Evaluation Method</b>	<ul style="list-style-type: none"> <li>• Commercial HMA placed at any location</li> <li>• Any HMA placed in:               <ul style="list-style-type: none"> <li>○ sidewalks</li> <li>○ road approaches</li> <li>○ ditches</li> <li>○ slopes</li> <li>○ paths</li> <li>○ trails</li> <li>○ gores</li> <li>○ prelevel</li> <li>○ temporary pavement<sup>1</sup></li> <li>○ pavement repair</li> </ul> </li> <li>• Other nonstructural applications of HMA as approved by the Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• All HMA mixture other than that accepted by Visual Evaluation</li> </ul>

<sup>1</sup> Temporary pavement is HMA that will be removed before Physical Completion of the Contract.

### 5-04.3(9)A Test Sections

This Section applies to HMA mixture accepted by Statistical Evaluation. A test section is not allowed for HMA accepted by Visual Evaluation.

The purpose of a test section is to determine whether or not the Contractor's mix design and production processes will produce HMA meeting the Contract requirements related to mixture. Construct HMA mixture test sections at the beginning of paving, using at least 600 tons and a maximum of 1,000 tons or as specified by the Engineer. Each test section shall be constructed in one continuous operation.

#### 5-04.3(9)A1 Test Section – When Required, When to Stop

Use Tables 8 and 9 to determine when a test section is required, optional, or not allowed, and to determine when performing test sections may end. Each mix design will be evaluated independently for the test section requirements. If more than one test section is required, each test section shall be evaluated separately by the criteria in table 8 and 9.

Table 8

<b>Criteria for Conducting and Evaluating HMA Mixture Test Sections</b> (For HMA Mixture Accepted by Statistical Evaluation)		
	<b>High RAP/Any RAS</b>	<b>Low RAP/No RAS</b>
Is Mixture Test Section Optional or Mandatory?	Mandatory <sup>1</sup>	At Contractor's Option
Waiting period after paving the test section.	4 calendar days <sup>2</sup>	4 calendar days <sup>2</sup>
What Must Happen to Stop Performing Test Sections?	Meet "Results Required to Stop Performing Test Sections" in Table 9 for High RAP/Any RAS.	Provide samples and respond to WSDOT test results required by Table 9 for Low RAP/No RAS.

<sup>1</sup>If a mix design has produced an acceptable test section on a previous contract (paved in the same calendar year, from the same plant, using the same JMF) the test section may be waived if approved by the Engineer.

<sup>2</sup>This is to provide time needed by the Contracting Agency to complete testing and the Contractor to adjust the mixture in response to those test results. Paving may resume when this is done.

Table 9

<b>Results Required to Stop Performing HMA Mixture Test Sections<sup>1</sup></b> <b>(For HMA Mixture Accepted by Statistical Evaluation)</b>		
<b>Test Property</b>	<b>Type of HMA</b>	
	<b>High RAP/Any RAS</b>	<b>Low RAP/No RAS</b>
Gradation	Minimum $PF_i$ of 0.95 based on the criteria in Section 5-04.3(9)B4 <sup>2</sup>	None <sup>4</sup>
Asphalt Binder	Minimum $PF_i$ of 0.95 based on the criteria in Section 5-04.3(9)B4 <sup>2</sup>	None <sup>4</sup>
$V_a$	Minimum $PF_i$ of 0.95 based on the criteria in Section 5-04.3(9)B4 <sup>2</sup>	None <sup>4</sup>
Hamburg Wheel Track Indirect Tensile Strength	Meet requirements of Section 9-03.8(2). <sup>3</sup>	These tests will not be done as part of Test Section.
Aggregates Sand Equivalent Uncompacted Void Content Fracture	Nonstatistical Evaluation in accordance with the requirements of Section 3-04 <sup>3</sup>	None <sup>3</sup>

<sup>1</sup>In addition to the requirements of this table, acceptance of the HMA mixture used in each test section is subject to the acceptance criteria and price adjustments for Statistical Evaluation (see Table 9a).

<sup>2</sup>Divide the test section lot into three sublots, approximately equal in size. Take one sample from each subplot, and test each sample for the property in the first column.

<sup>3</sup>Take one sample for each test section lot. Test the sample for the properties in the first column.

<sup>4</sup>Divide the test section lot into three sublots, approximately equal in size. Take one sample from each subplot, and test each sample for the property in the first column. There are no criteria for discontinuing test sections for these mixes; however, the contractor must comply with Section 5-04.3(11)F before resuming paving.

#### **5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section**

The Engineer will evaluate the HMA mixture in each test section for rejection, acceptance, and price adjustments based on the criteria in Table 9a using the data generated from the testing required by Table 9. Each test section shall be considered a separate lot.

Table 9a

<b>Acceptance Criteria for HMA Mixture Placed in a Test Section (For HMA Mixture Accepted by Statistical Evaluation)</b>		
<b>Test Property</b>	<b>Type of HMA</b>	
	<b>High RAP/Any RAS</b>	<b>Low RAP/No RAS</b>
Gradation Asphalt Binder $V_a$	Statistical Evaluation	Statistical Evaluation
Hamburg Wheel Track Indirect Tensile Strength	Pass/Fail for the requirements of Section 9-03.8(2) <sup>1</sup>	N/A
HMA Aggregate Sand Equivalent Uncompacted Void Content	Nonstatistical Evaluation in accordance with the requirements of Section 3-04	Nonstatistical Evaluation in accordance with the requirements of Section 3-04

<sup>1</sup>Failure to meet the specifications for Hamburg and/or IDT will cause the mixture in the test section to be rejected. Refer to Section 5-04.3(11).

#### **5-04.3(9)B Mixture Acceptance – Statistical Evaluation**

##### **5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots**

HMA mixture which is accepted by Statistical Evaluation will be evaluated by the Contracting Agency dividing that HMA tonnage into mixture lots, and each mixture lot will be evaluated using stratified random sampling by the Contracting Agency sub-dividing each mixture lot into mixture sublots. All mixture in a mixture lot shall be of the same mix design. The mixture sublots will be numbered in the order in which the mixture (of a particular mix design) is paved.

Each mixture lot comprises a maximum of 15 mixture sublots, except:

- The final mixture lot of each mix design on the Contract will comprise a maximum of 25 sublots.
- A mixture lot for a test section will consist of three sublots.

Each mixture subplot shall be approximately uniform in size with the maximum mixture subplot size as specified in Table 10. The quantity of material represented by the final mixture subplot of the project, for each mix design on the project, may be increased to a maximum of two times the mixture subplot quantity calculated.

Table 10

<b>Maximum HMA Mixture Sublot Size For HMA Accepted by Statistical Evaluation</b>	
<b>HMA Original Plan Quantity (tons)<sup>1</sup></b>	<b>Maximum Sublot Size (tons)<sup>2</sup></b>
< 20,000	1,000
20,000 to 30,000	1,500
>30,000	2,000

<sup>1</sup> "Plan quantity" means the plan quantity of all HMA of the same class and binder grade which is accepted by Statistical Evaluation.

<sup>2</sup> The maximum sublot size for each combination of HMA class and binder grade shall be calculated separately.

- For a mixture lot in progress with a mixture CPF less than 0.75, a new mixture lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.
- If, before completing a mixture lot, the Contractor requests a change to the JMF which is approved by the Engineer, the mixture produced in that lot after the approved change will be evaluated on the basis of the changed JMF, and the mixture produced in that lot before the approved change will be evaluated on the basis of the unchanged JMF; however, the mixture before and after the change will be evaluated in the same lot. Acceptance of subsequent mixture lots will be evaluated on the basis of the changed JMF.

**5-04.3(9)B2 Mixture Statistical Evaluation – Sampling**

Comply with Section 1-06.2(1).

Samples of HMA mixture which is accepted by Statistical Evaluation will be randomly selected from within each sublot, with one sample per sublot. The Engineer will determine the random sample location using WSDOT Test Method T 716. The Contractor shall obtain the sample when ordered by the Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer and in accordance with FOP for WAQTC T 168.

**5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing**

Comply with Section 1-06.2(1).

The Contracting Agency will test the mixture sample from each sublot (including sublots in a test section) for the properties shown in Table 11.

Table 11

<b>Testing Required for each HMA Mixture Sublot</b>		
<b>Test</b>	<b>Procedure</b>	<b>Performed by</b>
V <sub>a</sub>	WSDOT SOP 731	Engineer
Asphalt Binder Content	FOP for AASHTO T 308	Engineer
Gradation: Percent Passing 1½", 1", ¾", ½", ⅜", No. 4, No. 8, No. 200	FOP for WAQTC T 27/T 11	Engineer

The mixture samples and tests taken for the purpose of determining acceptance of the test section (as described in Section 5-04.3(9)A) shall also be used as the test results for acceptance of the mixture described in 5-04.3(9)B3, 5-04.3(9)B4, 5-04.3(9)B5, and 5-04.3(9)B6.

**5-04.3(9)B4 Mixture Statistical Evaluation – Pay Factors**

Comply with Section 1-06.2(2).

The Contracting Agency will determine a pay factor (PF<sub>i</sub>) for each of the properties in Table 11, for each mixture lot, using the quality level analysis in Section 1-06.2(2)D. For Gradation, a pay factor will be calculated for each of the sieve sizes listed in Table 11 which is equal to or smaller than the maximum allowable aggregate size (100 percent passing sieve) of the HMA mixture. The USL and LSL shall be calculated using the Job Mix Formula Tolerances (for Statistical Evaluation) in Section 9-03.8(7).

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

**5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)**

Comply with Section 1-06.2(2).

In accordance with Section 1-06.2(2)D4, the Contracting Agency will determine a Composite Pay Factor (CPF) for each mixture lot from the pay factors calculated in Section 5-04.3(9)B4, using the price adjustment factors in Table 12. Unless otherwise specified, the maximum CPF for HMA mixture shall be 1.05.

Table 12

<b>HMA Mixture Price Adjustment Factors</b>	
<b>Constituent</b>	<b>Factor “f”</b>
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 (V <sub>a</sub> )	20

**5-04.3(9)B6 Mixture Statistical Evaluation – Price Adjustments**

For each HMA mixture lot, a Job Mix Compliance Price Adjustment will be determined and applied, as follows:

$$JMCPA = [0.60 \times (CPF - 1.00)] \times Q \times UP$$

Where

JMCPA = Job Mix Compliance Price Adjustment for a given lot of mixture (\$)

- CPF = Composite Pay factor for a given lot of mixture  
(maximum is 1.05)
- Q = Quantity in a given lot of mixture (tons)
- UP = Unit price of the HMA in a given lot of mixture (\$/ton)

**5-04.3(9)B7 Mixture Statistical Evaluation – Retests**

The Contractor may request that a mixture subplot be retested. To request a retest, submit a written request to the Contracting Agency within 7 calendar days after the specific test results have been posted to the website or emailed to the Contractor, whichever occurs first. The Contracting Agency will send a split of the original acceptance sample for testing by the Contracting Agency to either the Region Materials Laboratory or the State Materials Laboratory as determined by the Engineer. The Contracting Agency will not test the split of the sample with the same equipment or by the same tester that ran the original acceptance test. The sample will be tested for a complete gradation analysis, asphalt binder content, and  $V_a$ , and the results of the retest will be used for the acceptance of the HMA mixture in place of the original mixture subplot 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 \$250 per sample.

**5-04.3(9)C Vacant**

**5-04.3(9)D Mixture Acceptance – Visual Evaluation**

Visual Evaluation of HMA mixture will be by visual inspection by the Engineer or, in the sole discretion of the Engineer, the Engineer may sample and test the mixture.

**5-04.3(9)D1 Mixture Visual Evaluation – Lots, Sampling, Testing, Price Adjustments**

HMA mixture accepted by Visual Evaluation will not be broken into lots unless the Engineer determines that testing is required. When that occurs, the Engineer will identify the limits of the questionable HMA mixture, and that questionable HMA mixture shall constitute a lot. Then, the Contractor will take samples from the truck, or the Engineer will take core samples from the roadway at a minimum of three random locations from within the lot, selected in accordance with WSDOT Test Method T 716, taken from the roadway in accordance with WSDOT SOP 734, and tested in accordance with WSDOT SOP 737. The Engineer will test one of the samples for all constituents in Section 5-04.3(9)B3. If all constituents from that test fall within the Job Mix Formula Tolerances (for Visual Evaluation) in Section 9-03.8(7), the lot will be accepted at the unit Contract price with no further evaluation.

When one or more constituents fall outside those tolerance limits, the other samples will be tested for all constituents in Section 5-04.3(9)B3, and a Job Mix Compliance Price Adjustment will be calculated in accordance with Table 13.

Table 13

<b>Visual Evaluation – Out of Tolerance Procedures</b>	
Comply with the Following	
Pay Factors <sup>1</sup>	Section 5-04.3(9)B4
Composite Pay Factors <sup>2</sup>	Section 5-04.3(9)B5
Price Adjustments	Section 5-04.3(9)B6

<sup>1</sup>The Visual Evaluation tolerance limits in Section 9-03.8(7) will be used in the calculation of the  $PF_i$ .

<sup>2</sup>The maximum CPF shall be 1.00.

#### **5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results**

The results of all mixture acceptance testing and the Composite Pay Factor (CPF) of the lot after three sublots have been tested will be available to the Contractor through The Contracting Agency's website.

The Contracting Agency will endeavor to provide written notification (via email to the Contractor's designee) of acceptance test results through its web-based materials testing system Statistical Analysis of Materials (SAM) within 24 hours of the sample being made available to the Contracting Agency. However, the Contractor agrees:

1. Quality control, defined as the system used by the Contractor to monitor, assess, and adjust its production processes to ensure that the final HMA mixture will meet the specified level of quality, is the sole responsibility of the Contractor.
2. The Contractor has no right to rely on any testing performed by the Contracting Agency, nor does the Contractor have any right to rely on timely notification by the Contracting Agency of the Contracting Agency's test results (or statistical analysis thereof), for any part of quality control and/or for making changes or correction to any aspect of the HMA mixture.
3. The Contractor shall make no claim for untimely notification by the Contracting Agency of the Contracting Agency's test results or statistical analysis.

#### **5-04.3(10) HMA Compaction Acceptance**

For all HMA, the Contractor shall comply with the General Compaction Requirements in Section 5-04.3(10)A. The Contracting Agency will evaluate all HMA for compaction compliance with one of the following - Statistical Evaluation, Visual Evaluation, or Test Point Evaluation - determined by the criteria in Table 14:



Table 14

Criteria for Determining Method of Evaluation for HMA Compaction <sup>1</sup>		
Statistical Evaluation of HMA Compaction is Required For:	Visual Evaluation of HMA Compaction is Required For:	Test Point Evaluation of HMA Compaction is Required For:
<ul style="list-style-type: none"> <li>• Any HMA for which the specified course thickness is greater than 0.10 feet, and the HMA is in:                             <ul style="list-style-type: none"> <li>○ traffic lanes, including but not limited to:                                     <ul style="list-style-type: none"> <li>• ramp lanes</li> <li>• truck climbing lanes</li> <li>• weaving lanes</li> <li>• speed change lanes</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• “HMA for Preleveling...”</li> <li>• “HMA for Pavement Repair...”</li> </ul>	<ul style="list-style-type: none"> <li>• Any HMA not meeting the criteria for Statistical Evaluation or Visual Evaluation</li> </ul>

<sup>1</sup>This table applies to all HMA, and shall be the sole basis for determining the acceptance method for compaction.

The Contracting Agency may, at its sole discretion, evaluate any HMA for compliance with the Cyclic Density requirements of Section 5-04.3(10)B.

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

Immediately after the HMA has been spread and struck off, and after surface irregularities have been adjusted, thoroughly and uniformly compact the mix. The completed course shall be free from ridges, ruts, humps, depressions, objectionable marks, and irregularities and shall conform to the line, grade, and cross-section shown in the Plans. If necessary, alter the JMF in accordance with Section 9-03.8(7) to achieve desired results.

Compact the mix when it is in the proper condition so that no undue displacement, cracking, or shoving occurs. Compact areas inaccessible to large compaction equipment by mechanical or hand tampers. Remove HMA that becomes loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way defective. Replace the removed material with new HMA, and compact it immediately 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. An exception shall be that pneumatic tired rollers shall be used for compaction of the wearing course beginning October 1<sup>st</sup> of any year through March 31<sup>st</sup> of the following year. Coverage with a steel wheel roller may precede pneumatic tired rolling. Unless otherwise approved by the Engineer, operate rollers in the static mode

when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, do not operate a roller in a mode that results in checking or cracking of the mat.

On bridge decks and on the five feet of roadway approach immediately adjacent to the end of bridge/back of pavement seat, operate rollers in static mode only.

**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 HMA Compaction Acceptance – Statistical Evaluation**

HMA compaction which is accepted by Statistical Evaluation will be based on acceptance testing performed by the Contracting Agency, and statistical analysis of those acceptance tests results. This will result in a Compaction Price Adjustment.

**5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots**

HMA compaction which is accepted by Statistical Evaluation will be evaluated by the Contracting Agency dividing the project into compaction lots, and each compaction lot will be evaluated using stratified random sampling by the Contracting Agency sub-dividing each compaction lot into compaction sublots. All mixture in any individual compaction lot shall be of the same mix design. The compaction sublots will be numbered in the order in which the mixture (of a particular mix design) is paved.

Each compaction lot comprises a maximum of 15 compaction sublots, except for the final compaction lot of each mix design on the Contract, which comprises a maximum of 25 sublots.

Each compaction subplot shall be uniform in size as shown in Table 15, except that the last compaction subplot of each day may be increased to a maximum of two times the compaction subplot quantity calculated. Minor variations in the size of any subplot shall not be cause to invalidate the associated test result.

Table 15

<b>HMA Compaction Sublot Size</b>	
HMA Original Plan Quantity (tons) <sup>1</sup>	Compaction Sublot Size (tons)
<20,000	100
20,000 to 30,000	150
>30,000	200

<sup>1</sup> In determining the plan quantity tonnage, do not include any tons accepted by test point evaluation.

The following will cause one compaction lot to end prematurely and a new compaction lot to begin:

- For a compaction lot in progress with a compaction CPF less than 0.75, a new compaction lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.

All HMA which is paved on a bridge and accepted for compaction by Statistical Evaluation will compose a bridge compaction lot. If the contract includes such HMA on more than one bridge, compaction will be evaluated on each bridge individually, as separate bridge compaction lots.

Bridge compaction sublots will be determined by the Engineer subject to the following:

- All sublots on a given bridge will be approximately the same size.
- Sublots will be stratified from the lot.
- In no case will there be less than 3 sublots in each bridge compaction lot.
- No subplot will exceed 50 tons.
- Compaction test locations will be determined by the Engineer in accordance with WSDOT FOP for AASHTO T716.

#### **5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing**

Comply with Section 1-06.2(1).

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

Use Table 16 to determine compaction acceptance test procedures and to allocate compaction acceptance sampling and testing responsibilities between the Contractor and the Contracting Agency. HMA cores shall be taken or nuclear density testing shall occur after completion of the finish rolling, prior to opening to traffic, and on the same day that the mix is placed.

Table 16

<b>HMA Compaction Acceptance Testing Procedures and Responsibilities</b>			
	When Contract Includes Bid Item "HMA Core – Roadway" or "HMA Core – Bridge" <sup>4</sup>	When Contract Does Not Include Bid Item "HMA Core – Roadway" or "HMA Core – Bridge" <sup>4</sup>	
Basis for Test:	Cores	Cores <sup>3</sup>	Nuclear Density Gauge <sup>3</sup>
In-Place Density Determined by:	Contractor shall take cores <sup>1</sup> using WSDOT SOP 734 <sup>2</sup> Contracting Agency will determine core density using FOP for AASHTO T 166	Contracting Agency will take cores <sup>1</sup> using WSDOT SOP 734 Contracting Agency will determine core density using FOP for AASHTO T 166	Contracting Agency, using WSDOT FOP for AASHTO T 355
Theoretical Maximum Density Determined by:	Contracting Agency, using FOP for AASHTO T 209		
Rolling Average of Theoretical Maximum Densities Determined by:	Contracting Agency, using WSDOT SOP 729		
Percent Compaction in Each Sublot Determined by:	Contracting Agency, using WSDOT SOP 736	Contracting Agency, using WSDOT SOP 736	Contracting Agency, using WSDOT FOP for AASHTO T 355

<sup>1</sup>The core diameter shall be 4-inches unless otherwise approved by the Engineer.

<sup>2</sup>The Contractor shall take the core samples in the presence of the Engineer, at locations designated by the Engineer, and deliver the core samples to the Contracting Agency.

<sup>3</sup>The Contracting Agency will determine, in its sole discretion, whether it will take cores or use the nuclear density gauge to determine in-place density. Exclusive reliance on cores for density acceptance is generally intended for small paving projects and is not intended as a replacement for nuclear gauge density testing on typical projects.

<sup>4</sup>The basis for test of all compaction sublots in a bridge compaction lot shall be cores. These cores shall be taken by the Contractor when the Proposal includes the bid item "HMA Cores – Bridge". When there is no bid item for "HMA Cores – Bridge", the Engineer will be responsible for taking HMA cores for all compaction sublots in a bridge compaction lot. In either case, the Engineer will determine core location, in-place density of the core, theoretical maximum density, rolling average of theoretical maximum density, and percent compaction using the procedure called for in this Section.

When using the nuclear density gauge for acceptance testing of pavement density, the Engineer will follow WSDOT SOP 730 for correlating the nuclear gauge with HMA cores. When cores are required for the correlation, coring and testing will be by the Contracting Agency. When a core is taken for gauge correlation at the location of a subplot, the relative density of the core will be used for the subplot test result and is exempt from retesting.

**5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments**

For each HMA compaction lot (that is accepted by Statistical Evaluation) which has less than three compaction sublots, for which all compaction sublots attain a minimum of 91 percent compaction determined in accordance with WSDOT FOP for AASHTO T 355 (or WSDOT SOP 736 when provided by the Contract), the HMA will be accepted at the unit Contract price with no further evaluation.

For each HMA compaction lot (that is accepted by Statistical Evaluation) which does not meet the criteria in the preceding paragraph, the compaction lot shall be evaluated in accordance with Section 1-06.2(2) to determine the appropriate Compaction Price Adjustment (CPA). All of the test results obtained from the acceptance samples from a given compaction lot shall be evaluated collectively. Additional testing by either a nuclear density gauge or cores will be completed as required to provide a minimum of three tests for evaluation.

For the statistical analysis in Section 1-06.2, use the following values:

x =           Percent compaction of each subplot  
USL =       100  
LSL =       91

Each CPA will be determined as follows:

$$CPA = [0.40 \times (CPF - 1.00)] \times Q \times UP$$

Where

CPA =       Compaction Price Adjustment for the compaction lot (\$)  
CPF =       Composite Pay Factor for the compaction lot (maximum is 1.05)  
Q =         Quantity in the compaction lot (tons)  
UP =        Unit price of the HMA in the compaction lot (\$/ton)

**5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting**

For a compaction subplot that has been tested with a nuclear density gauge that did not meet the minimum of 91 percent of the theoretical 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, taken at the same location as the nuclear density test, be used for determination of the relative density of the compaction subplot. The relative density of the core will replace the relative density determined by the nuclear density gauge for the compaction subplot 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 compaction subplot have been provided or made available to the Contractor. 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 retesting. When the CPF for the compaction lot based on the results of the cores is less than 1.00, the Contracting Agency will deduct the cost for the coring 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)D HMA Compaction – Visual Evaluation**

Visual Evaluation will be the basis of acceptance for compaction of the Bid items “HMA for Pavement Repair Cl. \_\_\_ PG \_\_\_” and “HMA for Prelevelling Class \_\_\_ PG \_\_\_”. This HMA shall be thoroughly compacted to the satisfaction of the Engineer. HMA that is used to prelevel wheel ruts shall be compacted with a pneumatic tire roller.

#### **5-04.3(10)E HMA Compaction – Test Point Evaluation**

When compaction acceptance is by Test Point Evaluation, compact HMA based on a test point evaluation of the compaction train. Perform the test point evaluation 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.

#### **5-04.3(10)F HMA Compaction Acceptance – Notification of Acceptance Test Results**

The obligations and responsibilities for notifying the Contractor of compaction acceptance test results are the same as for mixture acceptance test results. See Section 5-04.3(9)E.

#### **5-04.3(11) Reject Work**

This Section applies to HMA and all requirements related to HMA (except aggregates prior to being incorporated into HMA). For rejection of aggregate prior to its incorporation into HMA refer to Section 3-04.

#### **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.

#### **5-04.3(11)B Rejection by Contractor**

The Contractor may, prior to acceptance sampling and testing, 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.

No payment will be made for the rejected materials or the removal of the materials unless the Contractor requests the rejected material to be tested. If the Contractor requests testing, acceptance will be by Statistical Evaluation, and a minimum of three samples will be obtained and tested. When uncompacted material is required for testing but not available, the Engineer will determine random sample locations on the roadway in accordance with WSDOT Test Method T 716, take cores in accordance with WSDOT SOP 734, and test the cores in accordance with WSDOT SOP 737.

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 (Mixture or Compaction)**

In addition to the random acceptance sampling and testing, the Engineer may also isolate from a mixture or compaction 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. The Contracting Agency will obtain a minimum of three random samples of the suspect material and perform the testing. When uncompacted material is required for testing but is not available, the Engineer will select random sample locations on the roadway in accordance with WSDOT Test Method T 716, take cores samples in accordance with WSDOT SOP 734, and test the material in accordance with WSDOT SOP 737. 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 (Mixture or Compaction)**

An entire mixture or compaction sublot that is suspected of being defective may be rejected. When this occurs, a minimum of two additional random samples from this sublot will be obtained. When uncompacted material is required for the additional samples but the material has been compacted, the Contracting Agency will take and test cores from the roadway as described in Section 5-04.3(11)D. The 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 (Mixture or Compaction)**

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 when:

1. the Composite Pay Factor (CPF) of a mixture or compaction lot in progress drops below 1.00 and the Contractor is taking no corrective action, or
2. the Pay Factor ( $PF_i$ ) for any constituent of a mixture or compaction lot in progress drops below 0.95 and the Contractor is taking no corrective action, or
3. either the  $PF_i$  for any constituent (or the CPF) of a mixture or compaction 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**

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

Construct a temporary wedge of HMA on a 50H:1V where a transverse joint as a result of paving or planing is open to traffic. Separate the HMA in the temporary wedge from the permanent HMA upon which it is placed by strips of heavy wrapping paper or other methods approved by the Engineer. Remove the wrapping paper and trim the joint to a slightly beveled edge for the full thickness of the course prior to resumption of paving.

Waste the material that is cut away and place new HMA against the cut. Use rollers or tamping irons to seal the joint.

**5-04.3(12)A2 Longitudinal Joints**

Offset the longitudinal joint in any one course from the course immediately below by not more than 6 inches nor less than 2 inches. Locate all longitudinal joints constructed in the wearing course at a lane line or an edge line of the Traveled Way. Construct a notched wedge joint 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 nor more than  $\frac{1}{2}$  of the compacted lift thickness, and then taper down on a slope not steeper than 4H:1V. Uniformly compact the sloped portion of the HMA notched wedge joint.

On one-lane ramps a longitudinal joint may be constructed at the center of the traffic lane, subject to approval by the Engineer, if:

1. The ramp must remain open to traffic, or
2. The ramp is closed to traffic and a hot-lap joint is constructed.
  - a. Two paving machines shall be used to construct the hot-lap joint.
  - b. The pavement within 6 inches of the hot-lap joint will not be excluded from random location selection for compaction testing.
  - c. Construction equipment other than rollers shall not operate on any uncompacted HMA.

When HMA is placed adjacent to cement concrete pavement, construct longitudinal joints between the HMA and the cement concrete pavement. Saw the joint to the dimensions shown on Standard Plan A-40.10 and fill with joint sealant meeting the requirements of Section 9-04.2.

#### **5-04.3(12)B Bridge Paving Joint Seals**

##### **5-04.3(12)B1 HMA Sawcut and Seal**

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

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

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

##### **5-04.3(12)B2 Paved Panel Joint Seal**

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

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

### **5-04.3(13) Surface Smoothness**

The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary more than  $\frac{1}{8}$  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  $\frac{1}{4}$  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, correct the pavement surface by one of the following methods:

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

Correct defects 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 portland cement concrete pavement is to be placed on HMA, the surface tolerance of the HMA shall be such that no surface elevation lies above the Plan grade minus the specified Plan depth of portland cement concrete pavement. Prior to placing the portland cement concrete pavement, bring any such irregularities to the required tolerance by grinding or other means approved by the Engineer.

When utility appurtenances such as manhole covers and valve boxes are located in the Traveled Way, pave the Roadway before the utility appurtenances are adjusted to the finished grade.

### **5-04.3(14) Planing Bituminous Pavement**

Plane in such a manner that the underlying pavement is not torn, broken, or otherwise damaged by the planing operation. Delamination or raveling of the underlying pavement will not be construed as damage due to the Contractor's operations. Pavement outside the limits shown in the Plans or designated by the Engineer that is damaged by the Contractor's operations shall be repaired to the satisfaction of the Engineer at no additional cost to the Contracting Agency.

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

Remove all loose debris from the planed surface before opening the planed surface to traffic. The planings and other debris resulting from the planing operation shall become the property of the Contractor and be disposed of in accordance with Section 2-03.3(7)C, or as otherwise allowed by the Contract.

**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 HMA. If the Contractor elects to remove and replace HMA 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.

Crack Sealing-LF will be measured by the linear foot along the line of the crack.

Soil residual herbicide will be measured by the mile for the stated width to the nearest 0.01 mile or by the square yard, whichever is designated in the Proposal.

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

Asphalt for fog seal will be measured by the ton, as provided in Section 5-02.4.

Longitudinal joint seals between the HMA and cement concrete pavement will be measured by the linear foot along the line and slope of the completed joint seal.

HMA sawcut and seal, and paved panel joint seal, will be measured by the linear foot along the line and slope of the completed joint seal.

Planing bituminous pavement will be measured by the square yard.

Temporary pavement marking will be measured by the linear foot as provided in Section 8-23.4.

Water will be measured by the M gallon as provided in Section 2-07.4.

### 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.

“Crack Sealing-FA”, by force account.

“Crack Sealing-FA” will be paid for by force account as specified in Section 1-09.6. For the purpose of providing a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the total Bid by the Contractor.

“Crack Sealing-LF”, per linear foot.

The unit Contract price per linear foot for “Crack Sealing-LF” shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4)A.

“Soil Residual Herbicide \_\_\_ ft. Wide”, per mile, or

“Soil Residual Herbicide”, per square yard.

The unit Contract price per mile or per square yard for “Soil Residual Herbicide” shall be full payment for all costs incurred to obtain, provide and install herbicide in accordance with Section 5-04.3(4)B.

“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)C 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 Fog Seal”, per ton.

Payment for “Asphalt for Fog Seal” is described in Section 5-02.5.

“Longitudinal Joint Seal”, per linear foot.

The unit Contract price per linear foot for “Longitudinal Joint Seal” shall be full payment for all costs incurred to construct the longitudinal joint between HMA and cement concrete pavement, as described in Section 5-04.3(12)B.

“HMA Sawcut And Seal”, per linear foot.

The unit Contract price per linear foot for “HMA Sawcut And Seal” shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(12)B1.

“Paved Panel Joint Seal”, per linear foot.  
The unit Contract price per linear foot for “Paved Panel Joint Seal” shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(12)B2.

“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).

“Temporary Pavement Marking”, per linear foot.  
Payment for “Temporary Pavement Marking” is described in Section 8-23.5.

“Water”, per M gallon.  
Payment for “Water” is described in Section 2-07.5.

“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)B6 and 5-04.3(9)D1.

“Compaction Price Adjustment”, by calculation.  
“Compaction Price Adjustment” will be calculated and paid for as described in Section 5-04.3(10)C3.

“HMA Core – Bridge”, per each.  
The unit Contract price per each for “HMA Core – Bridge” shall be full payment for all costs, including traffic control, associated with taking HMA density cores in pavement that is on a bridge deck.

“HMA Core – Roadway”, per each.  
The unit Contract price per each for “HMA Core – Roadway” shall be full payment for all costs, including traffic control, associated with taking HMA density cores in pavement that is not on a bridge deck.

“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.

5-05.AP5

## **Section 5-05, Cement Concrete Pavement January 3, 2017**

### **5-05.3(1) Concrete Mix Design for Paving**

In last sentence of the second paragraph of item number 1, the reference to “Section 9-01.2(4)” is revised to read “Section 9-01.2(1)B”.

The following is inserted after item number 2:

3. **Mix Design Modifications** - The Contractor may initiate adjustments to the aggregate proportions of the approved mix design. An adjustment in both the fine and coarse aggregate batch target weights of plus or minus 200 pounds per cubic

yard will be allowed without resubmittal of the mix design. The adjusted aggregate weights shall become the new batch target weights for the mix design.

Item number 3 is renumbered to 4 and revised (up until the table) to read:

4. **Conformance to Mix Design** - Cement and coarse and fine aggregate weights shall be within the following tolerances of the batch target weights of the mix design:

<b>Portland Cement Concrete Batch Weights</b>		
Cement	+5%	-1%
Coarse Aggregate	+2%	-2%
Fine Aggregate	+2%	-2%

#### **5-05.3(3)B Mixing Equipment**

The last sentence of item number 4 is revised to read:

Plant-mixed concrete may be transported in nonagitated vehicles provided that the concrete is in a workable condition when placed and:

- a. discharge is completed within 45 minutes after the introduction of mixing water to the cement and aggregates, or
- b. discharge is completed within 60 minutes after the introduction of mixing water to the cement and aggregates, provided the concrete mix temperature is 70°F or below during placement, or
- c. discharge is completed within 60 minutes after the introduction of mixing water to the cement and aggregates, provided the mix contains an approved set retarder at the manufacturer's minimum dosage rate.

#### **5-05.3(6) Subgrade**

This section, including title, is revised to read:

##### **5-05.3(6) Surface Preparation**

The Subgrade surface shall be prepared and compacted a minimum of 3 feet beyond each edge of the area which is to receive concrete pavement in order to accommodate the slip-form equipment.

Concrete shall not be placed during a heavy rainfall. Prior to placing concrete:

1. The surface shall be moist;
2. Excess water (e.g., standing, pooling or flowing) shall be removed from the surface.
3. The surface shall be clean and free of any deleterious materials.
4. The surface temperature shall not exceed 120°F or be frozen.

### **5-05.3(7)A Slip-Form Construction**

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

The alignment and elevation of the paver shall be regulated from outside reference lines established for this purpose, or by an electronic control system capable of controlling the line and grade within required tolerances.

6-02.AP6

## **Section 6-02, Concrete Structures**

**April 3, 2017**

### **6-02.3(2) Proportioning Materials**

In the sixth paragraph, the reference to "Section 9-01.2(4)" is revised to read "9-01.2(1)B".

#### **6-02.3(2)A Contractor Mix Design**

The following new sentence is inserted after the first sentence of the third paragraph:

The mix design submittal shall also include test results no older than one year showing that the Aggregates do not contain Deleterious Substances in accordance with Section 9-03.

##### **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

The following new sentence is inserted after the second sentence of the last paragraph:

Mix designs using shrinkage reducing admixture shall state the specific quantity required.

The following new sentence is inserted before the last sentence of the last paragraph:

Testing samples of mixes using shrinkage reducing admixture shall use the admixture amount specified in the mix design submittal.

#### **6-02.3(2)B Commercial Concrete**

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

Commercial concrete does not require mix design or source approvals for cement, aggregate, and other admixtures.

#### **6-02.3(6)A1 Hot Weather Protection**

This section is revised to read:

The Contractor shall provide concrete within the specified temperature limits. Cooling of the coarse aggregate piles by sprinkling with water is permitted provided the moisture content is monitored and the mixing water is adjusted for the free water in the aggregate. Shading or cooling aggregate piles (sprinkling of fine aggregate piles with water is not allowed). If sprinkling of the coarse aggregates is to be used, the piles moisture content shall be monitored and the mixing water adjusted for the free water in the aggregate. In addition, when removing the coarse aggregate, it shall be removed from at least 1 foot above the bottom of the pile. Refrigerating mixing water; or replacing all or part of the mixing water with crushed ice, provided the ice is completely melted by placing time.

If air temperature exceeds 90°F, the Contractor shall use water spray or other accepted methods to cool all concrete-contact surfaces to less than 90°F. These surfaces include forms, reinforcing steel, steel beam flanges, and any others that touch the mix.

### **6-02.3(6)A2 Cold Weather Protection**

This section is revised to read:

Concrete shall be maintained at or above a temperature of 40°F during the first seven days of the Cold Weather Protection Period and at or above a temperature of 35°F during the remainder of the Cold Weather Protection Period. Cold weather protection requirements do not apply to concrete in shafts and piles placed below the ground line.

Prior to placing concrete in cold weather, the Contractor shall submit a Type 2 Working Drawing with a written procedure for cold weather concreting. The procedure shall detail how the Contractor will adequately cure the concrete and prevent the concrete temperature from falling below the minimum temperature. Extra protection shall be provided for areas especially vulnerable to freezing (such as exposed top surfaces, corners and edges, thin sections, and concrete placed into steel forms). Concrete placement will only be allowed if the Contractor's cold weather protection plan has been accepted by the Engineer.

Prior to concrete placement, the Contractor shall review the 7-day temperature predictions for the job site from the Western Region Headquarters of the National Weather Service ([www.wrh.noaa.gov](http://www.wrh.noaa.gov)). When temperatures below 35°F are predicted, the Contractor shall:

1. Install temperature data loggers in each concrete pour. One data logger shall be installed for every 100 yards of concrete placed. Data loggers shall be installed at locations directed by the Engineer, and shall be placed 1.5 inches from the face of concrete.
2. Immediately after concrete placement, temperature data loggers shall be installed on the concrete surface at locations directed by the Engineer. One data logger shall be installed for every 100 yards of concrete placed.

The data loggers shall be operated continuously during the Cold Weather Protection Period. Temperatures shall be measured, recorded and stored a minimum of every 30 minutes. Temperature data shall be submitted to the Engineer as a Type 1 Working Drawing within three days following the end of the Cold Weather Protection Period.

For each day that the concrete temperature falls below 40°F during the first seven days of the Cold Weather Protection Period, no curing time is awarded for that day and the Cold Weather Protection Period is extended for one additional day. If the concrete temperature falls below 35°F during Cold Weather Protection Period, the concrete may be rejected by the Engineer.

### **6-02.3(7) Concrete Exposed to Sea Water**

This section including title is revised to read:

#### **6-02.3(7) Vacant**



### **6-02.3(8) Concrete Exposed to Alkaline Soils or Water**

This section including title is revised to read:

#### **6-02.3(8) Vacant**

### **6-02.3(17)K Concrete Forms on Steel Spans**

In the last paragraph, "ASTM A325" is revised to read "ASTM F3125 Grade A325".

### **6-02.3(17)N Removal of Falsework and Forms**

The fifth paragraph is deleted.

### **6-02.3(25) Prestressed Concrete Girders**

Under the heading "**Prestressed Concrete Slab Girder**", the second sentence is deleted.

#### **6-02.3(25)A Shop Drawings**

The sixth paragraph is deleted.

#### **6-02.3(25)F Prestress Release**

The last two sentences of the last paragraph are deleted and replaced with the following single sentence:

This request shall be submitted as a Type 2E Working Drawing analyzing changes in vertical deflection, girder lateral stability and concrete stresses in accordance with Section 6-02.3(25)L2.

#### **6-02.3(25)H Finishing**

Item number 2 in the first paragraph is revised to read:

2. The bottoms, sides, and tops of the lower flanges on all girders, including the top of the bottom slab between the tub girder webs.

#### **6-02.3(25)I Fabrication Tolerances**

Items 4 and 5 in the first paragraph are revised to read:

4. Flange Depth:  $\pm \frac{1}{4}$  inch
5. Strand Position:  
Individual strands:  $\pm \frac{1}{4}$  inch  
Bundled strands:  $\pm \frac{1}{2}$  inch  
Harped strand group center of gravity at the girder ends:  $\pm 1$  inch

Items 7, 8 and 9 in the first paragraph are revised to read:

7. Position of an Interior Void, vertically and horizontally:  $\pm \frac{1}{2}$  inch.
8. Bearing Recess (center of recess to girder end):  $\pm \frac{5}{8}$  inch.

9. Girder Ends (deviation from square or designated skew):

Horizontal:  $\pm \frac{1}{8}$  inch per foot of girder width, up to a maximum of  $\pm \frac{1}{2}$  inch

Vertical:  $\pm \frac{3}{16}$  inch per foot of girder depth, up to a maximum of  $\pm 1\frac{1}{2}$  inch

Items 14 and 15 in the first paragraph are revised to read:

14. Local smoothness of any surface:  $\pm \frac{1}{4}$  inch in 10 feet.
15. Differential Camber between Girders in a Span (measured in place at the job site):

For wide flange deck and deck bulb tee girders with a cast-in-place reinforced concrete deck:	Cambers shall be equalized when the differences in cambers between adjacent girders exceeds $\pm \frac{3}{4}$ inch
For wide flange deck, deck bulb tee and slab girders without a cast-in-place reinforced concrete deck:	Cambers shall be equalized when the differences in cambers between adjacent girders exceeds $\pm \frac{1}{4}$ inch

Item 17 in the first paragraph is revised to read:

17. Position of Lifting Embedments:  $\pm 3$  inches longitudinal,  $\pm \frac{1}{4}$  inch transverse.

**6-02.3(25)J Horizontal Alignment**

This section is revised to read:

The Contractor shall check and record the horizontal alignment (sweep) of each girder at the following times:

1. Initial – Upon removal of the girder from the casting bed
2. Shipment – Within 14 days prior to shipment; and
3. Erection – After girder erection and cutting temporary top strands but prior to any equalization, welding ties or placement of diaphragms.

Horizontal alignment of the top and bottom flanges shall be checked and recorded. Alternatively, the Contractor may check and record the horizontal alignment of the web near mid-height of the girder. Each check shall be made by measuring the maximum offset at mid-span relative to a chord that starts and stops at the girder ends. The Contractor shall check and record the alignment at a time when the girder is not influenced by temporary differences in surface temperature. Records for the initial check (item 1 above) shall be included in the Contractor’s prestressed concrete certificate of compliance. Records for all other checks shall be submitted as a Type 1 Working Drawing.

For each check (Items 1 to 3 above), the alignment shall not be offset more than  $\frac{1}{8}$  inch for each 10 feet of girder length. Girders not meeting this tolerance for the shipment check (Item 2 above) shall require an analysis of girder lateral stability and stresses in accordance with Section 6-02.3(25)L1. The Contractor shall perform this analysis and submit it as a Type 2E Working Drawing prior to shipment of the girder. Any girder that exceeds an offset of  $\frac{1}{8}$  inch for each 10 feet of girder length for the erection check

(Item 3 above) shall be corrected at the job site to the  $\frac{1}{8}$  inch maximum offset per 10 feet of girder length before concrete is placed into the diaphragms. The Contractor shall submit a Type 2 Working Drawing for any required corrective action.

The maximum distance between the side of a prestressed concrete slab girder, or the edge of the top flange of a wide flange deck, wide flange thin deck or deck bulb tee girder, and a chord that extends the full length of the girder shall be  $\pm\frac{1}{2}$  inch after erection (Item 3 above).

### **6-02.3(25)K Vertical Deflection**

Items 2 and 3 in the first paragraph are revised to read:

2. Shipment – Within 14 days prior to shipment;
3. Erection – After girder erection and cutting temporary top strands but prior to any equalization, welding ties or placement of diaphragms.

The following new paragraph is inserted after the second paragraph:

Girders with vertical deflections not meeting the limit shown in the Plans for the shipment check (Item 2 above) shall require an analysis of girder lateral stability and stresses in accordance with Section 6-02.3(25)L1. The Contractor shall perform this analysis and submit it as a Type 2E Working Drawing prior to shipment.

The following new sentence is inserted after the second sentence of the fourth to last paragraph:

Any diaphragms are assumed to be placed.

The last three paragraphs are deleted and replaced with the following:

If the girder vertical deflection measured for the erection check (Item 3 above) is not between the lower “D” dimension bound shown in the Plans and the upper “D” dimension bound shown in the Plans plus  $\frac{3}{4}$  inches, the Engineer may require corrective action. The Contractor shall submit a Type 2 Working Drawing for any required corrective action.

### **6-02.3(25)L Handling and Storage**

The second paragraph is revised to read:

For strand lift loops, only  $\frac{1}{2}$ -inch diameter or 0.6-inch diameter strand conforming to Section 9-07.10 shall be used, and a minimum 2-inch diameter straight pin of a shackle shall be used through the loops. Multiple loops shall be held level in the girder during casting in a manner that allows each loop to carry its share of the load during lifting. The minimum distance from the end of the girder to the centroid of the strand lift loops shall be 3 feet. The loops for all prestressed concrete girders, with the exception of prestressed concrete slab girders, shall project a minimum of 1'-6" from the top of the girder. The loops for prestressed concrete slab girders shall project a minimum of 4 inches. Loops shall extend to within 3 inches clear of the bottom of the girder, terminating with a 9-inch long 90-degree hook. Loads on individual loops shall be limited to 12 kips, and all girders shall be picked up at a minimum angle of 60 degrees from the top of the girder.

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

Alternatively, these temporary strands may be post-tensioned provided the strands are stressed on the same day that the permanent prestress is released into the girder and the strands are tensioned prior to lifting the girder.

The second to last sentence of the fourth paragraph is revised to read:

When the post-tensioned alternative is used, the Contractor shall be responsible for properly sizing the anchorage plates, and configuring the reinforcement adjacent to the anchorage plates, to prevent bursting or splitting of the concrete in the top flange.

The second to last paragraph is deleted.

This section is supplemented with the following new subsections:

**6-02.3(25)L1 Girder Lateral Stability and Stresses**

The Contractor shall be responsible for safely lifting, storing, shipping and erecting prestressed concrete girders.

The Contract documents may provide shipping and handling details for girders including lifting embedment locations (L), shipping support locations (L<sub>1</sub> and L<sub>2</sub>), minimum shipping support rotational spring constants (K<sub>θ</sub>), minimum shipping support center-to-center wheel spacings (W<sub>cc</sub>), vertical deflections and number of temporary top strands. These shipping and handling details have been determined in accordance with Section 6-02.3(25)L2.

The Contractor shall submit a Type 2E Working Drawing analyzing girder lateral stability and concrete stresses during lifting, storage, shipping and erection in accordance with Section 6-02.3(25)L2 in the following cases:

1. Any of the analysis assumptions listed in Section 6-02.3(25)L2 are invalid. Determination of validity shall be made by the Contractor, except that analysis assumptions shall be considered invalid if the actual values are outside of the provided tolerances.
2. The Contractor intends to alter the shipping and handling details provided in the Contract documents.
3. The Contract documents do not provide shipping and handling details.

**6-02.3(25)L2 Lateral Stability and Stress Analysis**

Analysis for girder lateral stability and concrete stresses during lifting, storage, shipping and erection shall be in accordance with the PCI Recommended Practice for Lateral Stability of Precast, Prestressed Concrete Bridge Girders, First Edition, Publication CB-02-16-E and the AASHTO LRFD Bridge Design Specifications edition identified in the Contract documents. The following design criteria shall be met:

1. Factor of Safety against cracking shall be at least 1.0
2. Factor of Safety against failure shall be at least 1.5

3. Factor of Safety against rollover shall be at least 1.5
4. Allowable concrete stresses shall be as specified in Section 6-02.3(25)L3

The analysis shall address any effects on girder vertical deflection (camber), "A" dimensions at centerline of bearings and deck screed cambers (C).

Shipping and handling details provided in the Contract documents have been determined using the following analysis assumptions:

1. Girder dimensions, strand locations and lifting embedment locations are within the tolerances specified in Section 6-02.3(25)I
2. Girder horizontal alignment (sweep) is within the tolerance specified in Section 6-02.3(25)J
3. Girder vertical deflection (camber) at midspan is less than or equal to the value shown in the Plans for shipping
4. Minimum concrete compressive strength at release ( $f'_{ci}$ ) has been reached before initial lifting from casting bed. Minimum concrete compressive strength at 28 days ( $f'_c$ ) has been reached before shipping.
5. Height of girder bottom above roadway at shipping supports is less than or equal to 72 inches
6. Height of shipping support roll center above roadway is 24 inches,  $\pm 2$  inches
7. Shipping support longitudinal placement ( $L_1$  and  $L_2$ ) tolerance is  $\pm 6$  inches
8. Shipping support lateral placement tolerance is  $\pm 1$  inches
9. Shipping supports provide the minimum shipping support rotational spring constant ( $K_\theta$ ) and minimum shipping support center-to-center wheel spacings ( $W_{cc}$ ) shown in the Plans
10. For shipping at highway speeds a  $\pm 20\%$  dynamic load allowance (impact) is included with a typical roadway superelevation of 2%
11. For turning at slow speeds, no dynamic load allowance (impact) is included with a maximum roadway superelevation of 6%
12. Wind, centrifugal and seismic forces are not considered

### 6-02.3(25)L3 Allowable Stresses

Prestressed concrete girder stresses shall be limited to the following values at all stages of construction and in service:

Condition	Stress	Location	Allowable Stress (ksi)
Temporary Stress at	Tensile	In areas without bonded reinforcement sufficient	$0.0948\lambda \sqrt{f'_{ci}} \leq 0.2$

Condition	Stress	Location	Allowable Stress (ksi)
Transfer and Lifting from Casting Bed		to resist the tensile force in the concrete	
		In areas with bonded reinforcement sufficient to resist the tensile force in the concrete	$0.24\lambda\sqrt{f'_{ci}}$
	Compressive	All locations	$0.65f'_{ci}$
Temporary Stress at Shipping and Erection	Tensile	In areas without bonded reinforcement sufficient to resist the tensile force in the concrete	$0.0948\lambda\sqrt{f'_c} \leq 0.2$
		In areas with bonded reinforcement sufficient to resist the tensile force in the concrete	$0.19\lambda\sqrt{f'_c}$
		In areas with bonded reinforcement sufficient to resist the tensile force in the concrete when shipping at 6% superelevation, without impact	$0.24\lambda\sqrt{f'_c}$
	Compressive	All locations	$0.65f'_c$
Final Stresses at Service Load	Tensile	Precompressed tensile zone	0.0
	Compressive	Effective prestress and permanent loads	$0.45f'_c$
		Effective prestress, permanent loads and transient (live) loads	$0.60f'_c$
Final Stresses at Fatigue Load	Compressive	Fatigue I Load Combination plus one-half effective prestress and permanent loads	$0.40f'_c$

Variables are as defined in the AASHTO LRFD Bridge Design Specifications.

### 6-02.3(25)M Shipping

The last four paragraphs are deleted and replaced with the following:

Girder lateral stability and stresses during shipping shall be in accordance with Section 6-02.3(25)L1.

If the Contractor elects to assemble spliced prestressed concrete girders into shipping configurations not shown in the Contract documents, the Contractor shall submit a Type 2E Working Drawing analyzing girder lateral stability and concrete stresses in accordance with Section 6-02.3(25)L2 before shipping.

### **6-02.3(25)N Prestressed Concrete Girder Erection**

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

The erection plan shall conform to Section 6-02.3(25)L1.

The last paragraph is revised to read:

Stop plates and dowel bars for prestressed concrete girders shall be set with either epoxy grout conforming to Section 9-26.3 or type IV epoxy bonding agent conforming to Section 9-26.1.

### **6-02.3(25)O Girder to Girder Connections**

The second paragraph is revised to read:

Prestressed concrete girders shall be constructed in the following sequence:

1. If required, deflections shall be equalized in accordance with the Contractor's equalization plan.
2. Any intermediate diaphragms shall be placed and any weld ties shall be welded in accordance with Section 6-03.3(25). Welding ground shall be attached directly to the steel plates being welded when welding the weld-ties.
3. Any keyways between adjacent girders shown in the Plans to receive grout shall be filled flush with the surrounding surfaces using a grout conforming to Section 9-20.3(2).
4. Equalization equipment shall not be removed and other construction equipment shall not be placed on the structure until intermediate diaphragms and keyway grout have attained a minimum compressive strength of 2,500 psi.

### **6-02.3(26)D2 Test Block Dimensions**

The first sentence is revised to read:

The dimensions of the test block perpendicular to the tendon in each direction shall be the smaller of twice the minimum edge distance or the minimum spacing specified by the special anchorage device manufacturer, with the stipulation that the concrete cover over any confining reinforcing steel or supplementary skin reinforcement shall be appropriate for the project-specific application and circumstances.

### **6-02.3(26)E2 Ducts for External Exposed Installation**

In the first paragraph, "ASTM D3350" is revised to read "ASTM D3035".

In the fourth paragraph, "ASTM D3505" is revised to read "ASTM D3035".

### **6-02.3(26)G Tensioning**

Item number 1 of the second paragraph is revised to read:

1. All concrete has reached a compressive strength of at least 4,000 psi or the strength specified in the Plans. When tensioning takes place prior to 28-day compressive strength testing on concrete sampled in accordance with

Section 6-02.3(25)H, compressive strength shall be verified on field cured cylinders in accordance with the FOP for AASHTO T23.

### **6-02.3(27)A Use of Self-Consolidating Concrete for Precast Units**

Item number 2 of the first paragraph is revised to read:

2. Precast reinforced concrete three-sided structures, box culverts and split box culverts in accordance with Section 7-02.3(6).

6-03.AP6

### **Section 6-03, Steel Structures January 3, 2017**

#### **6-03.3(33) Bolted Connections**

In this section, “AASHTO M253” is revised to read “ASTM F3125 Grade A490”, “ASTM F1852” is revised to read “ASTM F3125 Grade F1852”, and “ASTM A325” is revised to read “ASTM F3125 Grade A325”.

In the headings of Table 3, “A 325” is revised to read “ASTM F3125 Grade A325”.

In the headings of Table 3, “M 253” is revised to read “ASTM F3125 Grade A490”.

6-05.AP6

### **Section 6-05, Piling August 1, 2016**

In this section, the words “capacity” and “capacities” are replaced with “resistance” and “resistances”, respectively.

#### **6-05.3(1) Piling Terms**

The third paragraph is revised to read:

**Overdriving** – Over-driving of piles occurs when the ultimate bearing resistance calculated from the equation in Section 6-05.3(12), or the wave equation driving criteria if applicable, exceeds the ultimate bearing resistance required in the Contract in order to reach the minimum tip elevation specified in the Contract, or as required by the Engineer.

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

**Minimum Tip Elevation** – The minimum tip elevation is the elevation to which the pile tip shall be driven.

#### **6-05.3(3)A Casting and Stressing**

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

If the corrective action is not acceptable to the Engineer, the piling(s) will be subject to rejection by the Engineer.



### **6-05.3(5) Manufacture of Steel Piles**

This section is supplemented with the following new paragraph:

At least 14-days prior to the start of production of the piling, the Contractor shall advise the Engineer of the production schedule. The Contractor shall give the Inspector safe and free access to the Work. If the Inspector observes any nonspecification Work or unacceptable quality control practices, the Inspector will advise the plant manager. If the corrective action is not acceptable to the Engineer, the piling(s) will be subject to rejection by the Engineer.

### **6-05.3(9)A Pile Driving Equipment Approval**

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

The Contractor shall submit Type 2E Working Drawings consisting of a wave equation analysis for all pile driving systems used to drive piling with required maximum driving resistances of greater than 300 tons.

6-07.AP6

## **Section 6-07, Painting**

**April 3, 2017**

### **6-07.3(10)A Containment**

The first sentence of the fourth paragraph is replaced with the following two new sentences:

The containment system shall ensure no discharge into waters of the state. When there is no threat of discharging to the waters of the state, emissions shall not exceed the Level 2 Emissions standard in SSPC Technology Guide No. 6, Section 5.5, and assessed by Method A, Visible Emissions.

### **6-07.3(10)F Collecting, Testing, and Disposal of Containment Waste**

The third, fourth and fifth paragraphs are deleted and replaced with the following two new paragraphs:

Containment waste is defined as all paint chips and debris removed from the steel surface and all abrasive blast media, as contained by the containment system. After all waste from the containment system has been collected, the Contractor shall collect representative samples of the components that field screening indicates are lead-contaminated material. The Contractor shall collect at least one representative sample from each container. The Contractor may choose to collect a composite sample of each container, but the composite sample must consist of several collection points (a minimum of 3 random samples) that are representative of the entire contents of the container and representative of the characteristics of the type of waste in the container. In accordance with WAC 173-303-040, a representative sample means "a sample which can be expected to exhibit the average properties of the sample source."

The debris shall be tested for metals using the Toxicity Characteristics Leaching Procedure (TCLP) and EPA Methods 1311 and 6010. At a minimum, the materials should be analyzed for the Resource Conservation and Recovery Act (RCRA) 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). Pursuant to the Dangerous Waste (DW) Regulations Chapter 173-303-90(8)(c) WAC, "Any waste that contains contaminants which occur at concentrations at or above the DW threshold must be designated as DW." All material within each individual container or

containment system that designates as DW shall be disposed of at a legally permitted Subtitle C Hazardous Waste Landfill. All material within each individual container or containment system that designate below the DW threshold, will be designated as "Solid Waste" and shall be disposed of at a legally permitted Subtitle D Landfill. Disposal shall be in accordance with WAC 173-303 for waste designated "Dangerous Waste" and pursuant to WAC 173-350 for waste designated as "Solid Waste".

6-08.AP6

## **Section 6-08, Waterproofing January 3, 2017**

This section and all subsections, including title, is revised to read:

### **6-08 Bituminous Surfacing on Structure Decks**

#### **6-08.1 Description**

This Work consists of removing and placing Hot Mix Asphalt (HMA) or Bituminous Surface Treatment (BST) directly on or over a Structure. This Work also includes performing concrete bridge deck repair, applying waterproofing membrane, and sealing paving joints.

#### **6-08.2 Materials**

Materials shall meet the requirements of the following sections:

Bituminous Surface Treatment	5-02.2
Hot Mix Asphalt	5-04.2
Joint Sealants	9-04.2
Closed Cell Foam Backer Rod	9-04.2(3)A
Waterproofing Membrane (Deck Seal)	9-11
Bridge Deck Repair Material	9-20.5

#### **6-08.3 Construction Requirements**

##### **6-08.3(1) Definitions**

**Adjusted Removal Depth** – the Bituminous Pavement removal depth specified by the Engineer to supersede the Design Removal Depth after review of the Contractor survey of the existing Bituminous Pavement grade profile.

**Bituminous Pavement** – the surfacing material containing an asphalt binder.

**Design Removal Depth** – the value shown in the "pavement schedule" or elsewhere in the Plans to indicate the design thickness of Bituminous Pavement to be removed.

**Final Grade Profile** – the compacted finished grade surface of completed Bituminous Pavement surfacing consisting of a vertical profile and superelevation cross-slope, developed by the Engineer for Grade Controlled Structure Decks based on the Contractor survey.

**Grade Controlled** – a Structure Deck requiring restriction of Bituminous Pavement work, including restriction of pavement removal methods and restriction of overlay pavement thicknesses.

**Structure Deck** – the bridge deck (concrete or timber), bridge approach slab, top of concrete box culvert, or other concrete surfaces over or upon which existing Bituminous Pavement is removed and new Bituminous Pavement is applied.

**6-08.3(2) Contractor Survey for Grade Controlled Structure Decks**

Prior to removing existing Bituminous Pavement from a Grade Controlled Structure Deck, the Contractor shall complete a survey of the existing surface for use in establishing the existing cross section and grade profile elevations. When removal of Bituminous Pavement is to be achieved by rotary milling/planing, the Contractor's survey shall also include the depths of the existing surfacing at each survey point.

The Contractor is responsible for all calculations, surveying, installation of control points, and measuring required for setting, maintaining and resetting equipment and materials necessary for the construction of the overlay to the Final Grade Profile.

**6-08.3(2)A Survey Requirements**

The Contractor shall establish at least two primary survey control points for controlling actual Bituminous Pavement removal depth and the Final Grade Profile. Horizontal control shall be by station and offset which shall be tied to either the Roadway centerline or the Structure centerline. Vertical control may be an assumed datum established by the Contractor.

Primary control points shall be described by station or milepost and offset on the baseline selected by the Contractor. The Contractor may expand the survey control information to include secondary horizontal and vertical control points as needed for the project.

Survey information collected shall include station or milepost, offset, and elevation for each lane line and curb line. Survey information shall be collected at even 20 foot station intervals, and along the centerline of each bridge expansion joint. The survey shall extend 300'-0" beyond the bridge back of pavement seat or end of Structure Deck. The survey information shall include the top of Bituminous Pavement elevation and, when rotary milling/planing equipment is used, the corresponding depth of Bituminous Pavement to the Structure Deck. The Contractor shall ensure a surveying accuracy to within  $\pm 0.01$  feet for vertical control and  $\pm 0.2$  feet for horizontal control.

Voids in HMA created by the Contractor's Bituminous Pavement depth measurements shall be filled by material conforming to Section 9-20 or another material acceptable to the Engineer.

**6-08.3(2)B Survey Submittal**

The Contractor's survey records shall include descriptions of all survey control points including station/milepost, offset, and elevations of all secondary control points. The Contractor shall maintain survey records of sufficient detail to allow the survey to be reproduced. The Contractor shall submit a Type 2 Working Drawing consisting of the compiled survey

records and information. Survey data shall be submitted as an electronic file in Microsoft Excel format.

**6-08.3(2)C Final Grade Profile and Adjusted Removal Depth**

Based on the results of the survey, the Engineer may develop a Final Grade Profile and Adjusted Removal Depth. If they are developed, the Final Grade Profile and Adjusted Removal Depth will be provided to the Contractor within three working days after receiving the Contractor's survey information. When provided, the Adjusted Removal Depth supersedes the Design Removal Depth to become the Bituminous Pavement removal depth for that Structure Deck.

**6-08.3(3) General Bituminous Pavement Removal Requirements**

The Contractor shall remove Bituminous Pavement and associated deck repair material from Structure Decks to the horizontal limits shown in the Plans and to either the specified or adjusted Bituminous Pavement removal depth as applicable.

Removal of Bituminous Pavement within 12-inches of existing permanent features that limit the reach of the machine or the edge of the following items shall be by hand or by hand operated (nominal 30-pounds class) power tools: existing bridge expansion joint headers; steel expansion joint assemblies; concrete butt joints between back of pavement seats and bridge approach slabs, bridge drain assemblies; three beam post steel anchorage assemblies fastened to the side or top of the Structure Deck.

When removing Bituminous Pavement with a planer, Section 5-04.3(14) shall apply. If the planer contacts the Structure Deck in excess of the specified planing depth tolerance, or contacts steel reinforcing bars at any time, the Contractor shall immediately cease planing operations and notify the Engineer. Planing operations shall not resume until completion of the appropriate adjustments to the planing machine and receiving the Engineer's concurrence to resume.

**6-08.3(4) Partial Depth Removal of Bituminous Pavement from Structure Decks**

The depth of surfacing removal, as measured to the bottom of the lowest milling groove generated by the rotary milling/planing machine shall be +0.01, -0.02-feet of the specified or Adjusted Removal Depth as applicable.

**6-08.3(5) Full Depth Removal of Bituminous Pavement from Structure Decks**

**6-08.3(5)A Method of Removal**

The Contractor shall perform full depth removal by a method that does not damage or remove the Structure Deck in excess of the specified Bituminous Pavement removal tolerance. The Contractor shall submit a Type 2 Working Drawing consisting of the proposed methods and equipment to be used for full depth removal.

**6-08.3(5)B Planer Requirements for Full Depth Removal**

The final planed surface shall have a finished surface with a tolerance of +0.01, -0.02 feet within the planed surface profile, as measured from a

10-foot straight edge. Multiple passes of planing to achieve smoothness will not be allowed.

In addition to Section 6-08.3(3), the planing equipment shall conform to the following additional requirements:

1. The cutting tooth spacing on the rotary milling head shall be less than or equal to  $\frac{1}{4}$  inch.
2. The rotary milling/planing machine shall have cutting teeth that leave a uniform plane surface at all times. All teeth on the mill head shall be kept at a maximum differential tolerance of  $\frac{3}{8}$ -inch between the shortest and longest tooth, as measured by a straight edge placed the full width of the rotary milling head.
3. Cutting tips shall be replaced when 30 percent of the total length of the cutting tip material remains.

Prior to each day's Bituminous Pavement removal operations, the Contractor shall confirm to the satisfaction of the Engineer that the rotary head cutting teeth are within the specified tolerances.

#### **6-08.3(5)C Structure Deck Cleanup after Bituminous Pavement Removal**

Waterproofing membrane that is loose or otherwise not firmly bonded to the Structure Deck shall be removed as an incidental component of the Work of surfacing removal. Existing waterproofing membrane bonded to the Structure Deck need not be removed.

#### **6-08.3(6) Repair of Damage due to Bituminous Pavement Removal Operations**

All concrete bridge deck, pavement seat, and steel reinforcing bar damage due to the Contractor's surfacing removal operations shall be repaired by the Contractor in accordance with Section 1-07.13, and as specified below.

Damaged concrete in excess of the specified Bituminous Pavement removal tolerance shall be repaired in accordance with Section 6-08.3(7), with the bridge deck repair material placed to the level of the surrounding bridge deck and parallel to the final grade paving profile.

Damaged steel reinforcing bar shall be repaired as follows:

1. Damage to steel reinforcing bar resulting in a section loss less than 20-percent of the bar with no damage to the surrounding concrete shall be left in place and shall be repaired by removing the concrete to a depth  $\frac{3}{4}$ -inches around the top steel reinforcing bar and placing bridge deck repair material accepted by the Engineer to the level of the bridge deck and parallel to the final grade paving profile.
2. Damage to steel reinforcing bar resulting in a section loss of 20-percent or more in one location, bars partially or completely removed from the bridge deck, or where there is a lack of bond to the

concrete, shall be repaired by removing the adjacent concrete and splicing a new bar of the same size. Concrete shall be removed to provide a  $\frac{3}{4}$ -inch minimum clearance around the bars. The splice bars shall extend a minimum of 40 bar diameters beyond each end of the damage.

### **6-08.3(7) Concrete Deck Repair**

This Work consists of repairing the concrete deck after Bituminous Pavement has been removed.

#### **6-08.3(7)A Concrete Deck Preparation**

The Contractor, with the Engineer, shall inspect the exposed concrete deck to establish the extent of bridge deck repair in accordance with Section 6-09.3(6), except item 4 in Section 6-09.3(6) does not apply. Areas of Structure Deck left with existing well bonded waterproof membrane after full depth Bituminous Pavement removal are exempt from this inspection requirement.

All loose and unsound concrete within the repair area shall be removed with jackhammers or chipping hammers no more forceful than the nominal 30 pounds class, or other mechanical means acceptable to the Engineer, and operated at angles less than 45 degrees as measured from the surface of the deck to the tool. If unsound concrete exists around the existing steel reinforcing bars, or if the bond between concrete and steel reinforcing bar is broken, the Contractor shall remove the concrete to provide a  $\frac{3}{4}$  inch minimum clearance to the bar. The Contractor shall take care to prevent damage to the existing steel reinforcing bars and concrete to remain.

After removing sufficient concrete to establish the limits of the repair area, the Contractor shall make  $\frac{3}{4}$  inch deep vertical saw cuts and maintain square edges at the boundaries of the repair area. The exposed steel reinforcing bars and concrete in the repair area shall be abrasive blasted and blown clean just prior to placing the bridge deck repair material.

#### **6-08.3(7)B Ultra-Low Viscosity, Two-Part Liquid, Polyurethane-Hybrid Polymer Concrete**

The ultra-low viscosity, two-part liquid, polyurethane-hybrid polymer concrete shall be mixed in accordance with the manufacturer's recommendations.

Aggregate shall conform to the gradation limit requirements recommended by the manufacturer. The aggregate and the ultra-low viscosity, two-part liquid, polyurethane-hybrid polymer concrete shall be applied to the repair areas in accordance with the sequence and procedure recommended by the manufacturer.

All repairs shall be float finished flush with the surrounding surface within a tolerance of  $\frac{1}{8}$  inch of a straight edge placed across the full width and breadth of the repair area.

### **6-08.3(7)C Pre-Packaged Cement Based Repair Mortar**

The Contractor shall mix the pre-packaged cement based repair mortar using equipment, materials and proportions, batch sizes, and process as recommended by the manufacturer.

All repairs shall be float finished flush with the surrounding surface within a tolerance of  $\frac{1}{8}$  inch of a straight edge placed across the full width and breadth of the repair area.

### **6-08.3(7)D Cure**

All bridge deck repair areas shall be cured in accordance with the manufacturer's recommendations and attain a minimum compressive strength of 2,500 psi before allowing vehicular and foot traffic on the repair and placing waterproofing membrane on the bridge deck over the repair.

### **6-08.3(8) Waterproof Membrane for Structure Decks**

This work consists of furnishing and placing a waterproof sheet membrane system over a prepared Structure Deck prior to placing an HMA overlay. The waterproof membrane system shall consist of a sheet membrane adhered to the Structure Deck with a primer.

The Contractor shall comply with all membrane manufacturer's installation recommendations.

#### **6-08.3(8)A Structure Deck Preparation**

The Structure Deck and ambient air temperatures shall be above 50°F and the Structure Deck shall be surface-dry at the time of the application of the primer and membrane.

All areas of a Structure Deck that have fresh cast bridge deck concrete less than 28 days old (not including bridge deck repair concrete placed in accordance with Section 6-08.3(7)) shall cure for a period of time recommended by the membrane manufacturer, or as specified by the Engineer, before application of the membrane.

The entire Structure Deck and the sides of the curb and expansion joint headers to the height of the HMA overlay shall be free of all foreign material such as dirt, grease, etc. Prior to applying the primer or sheet membrane, all dust and loose material shall be removed from the Structure Deck with compressed air. All surface defects such as spalled areas, cracks, protrusions, holes, sharp edges, ridges, etc., and other surface imperfections greater than  $\frac{1}{4}$  inch in width shall be corrected prior to application of the membrane.

#### **6-08.3(8)B Applying Primer**

The primer shall be applied to the cleaned deck surfaces at the rate according to the procedure recommended by the membrane manufacturer. All surfaces to be covered by the membrane shall be thoroughly and uniformly coated with primer. Structure Deck areas left with existing well bonded waterproof membrane after bituminous surfacing removal shall receive an application of primer in accordance with the membrane manufacturer's recommendations. Precautionary measures

shall be taken to ensure that pools and thick layers of primer are not left on the deck surface. The membrane shall not be applied until the primer has cured or volatile material has substantially dissipated, in accordance with the membrane manufacturer's recommendations.

The primer and waterproof membrane shall extend from the bridge deck up onto the curb face and expansion joint header face the thickness of the HMA overlay. The membrane shall adhere to the vertical surface.

#### **6-08.3(8)C Placing Waterproof Membrane**

Membrane application shall begin at the low point on the deck, and continue in a lapped shingle pattern. The overlap shall be a minimum of six inches or greater if recommended by the membrane manufacturer. Membrane seams shall be sealed as recommended by the membrane manufacturer. Hand rollers or similar tools shall be used on the applied membrane to assure firm and uniform contact with the primed Structure surfaces.

The fabric shall be neatly cut and contoured at all expansion joints and drains. The cuts at bridge drains shall be two right angle cuts made to the inside diameter of the bridge deck drain outlet, after which the corners of the waterproof membrane shall be turned down into the drains and laid in a coating of primer.

#### **6-08.3(8)D Membrane Repair and Protection**

The waterproof membrane will be visually inspected by the Engineer for uniformity, tears, punctures, bonding, bubbles, wrinkles, voids and other defects. All such deficiencies shall be repaired in accordance with the membrane manufacturer's recommendations prior to placement of the HMA overlay.

The membrane material shall be protected from damage due to the paving operations in accordance with the membrane manufacturer's recommendations. No traffic or equipment except that required for the actual waterproofing and paving operations will be permitted to travel or rest on the membrane until it is covered by the HMA overlay. The use of windrows is not allowed for laydown of HMA on a membrane.

Where waterproofing membrane is placed in stages or applied at different times, a strip of temporary paper shall be used to protect the membrane overlap from the HMA hand removal methods.

#### **6-08.3(9) Placing Bituminous Pavement on Structure Decks**

HMA overlay shall be applied on Grade Controlled Structure Decks using reference lines for vertical control in accordance with Section 5-04.3(3)C.

The compacted elevation of the HMA overlay on Structure Decks shall be within  $\pm 0.02$  feet of the specified overlay thickness or Final Grade Profile as applicable. Deviations from the final grade paving profile in excess of the specified tolerance and areas of non-conforming surface smoothness shall be corrected in accordance with Section 5-04.3(13).



Final grade Roadway transitions to a Structure Deck with Bituminous Pavement shall not exceed a 0.20 percent change in grade in accordance with the bridge deck transition for HMA overlay Standard Plan, unless shown otherwise in the Plans.

Final grade compacted HMA elevations shall be higher than an adjacent concrete edge by  $\frac{1}{4}$  inch  $\pm$   $\frac{1}{8}$  inch at all expansion joint headers and concrete butt joints as shown in the concrete to asphalt butt joint details of the bridge paving joint seals Standard Plan. This also applies to steel edges within the limits of the overlay such as bridge drain frames and steel joint riser bars at bridge expansion joints.

**6-08.3(9)A Protection of Structure Attachments and Embedments**

The Contractor is responsible for protecting all Structure attachments and embedments from the application of BST and HMA.

Drainage inlets that are to remain open, and expansion joints, shall be cleaned out immediately after paving is completed. Materials passing through expansion joints shall be removed from the bridge within 10 working days.

All costs incurred by the Contractor in protective measures and clean up shall be included in the unit Contract prices for the associated Bid items of Work.

**6-08.3(10) HMA Compaction on Structure Decks**

Compaction of HMA on Structure Decks shall be in accordance with Section 5-04.3(10).

Work rejected in accordance with Section 5-04.3(11) shall include the materials, work, and incidentals to repair an existing waterproof membrane damaged by the removal of the rejected work.

**6-08.3(11) Paved Panel Joint Seals and HMA Sawcut and Seal**

Bridge paving joint seals shall be installed in accordance with Section 5-04.3(12)B and the details shown in the Plans and Standard Plans.

When concrete joints are exposed after removal of Bituminous Pavement, the joints shall be cleaned and sealed in accordance with Section 5-01.3(8) and the paved panel joint seal details of the bridge paving joint seals Standard Plan, including placement of the closed cell backer rod at the base of the cleaned joint. If waterproofing membrane is required, the membrane shall be slack or folded at the concrete joint to allow for Structure movements without stress to the membrane. After placement of the HMA overlay, the second phase of the paved panel joint seal shall be completed by sawing the HMA and sealing the sawn joint in accordance with Section 5-04.3(12)B2.

**6-08.4 Measurement**

Removing existing Bituminous Pavement from Structure Decks will be measured by the square yard of Structure Deck surface area with removed overlay.

Bridge deck repair will be measured by the square foot surface area of deck concrete removed with the measurement taken at the plane of the top mat of steel reinforcing bars.

Waterproof membrane will be measured by the square yard surface area of Structure Deck and curb and header surface area covered by membrane.

#### **6-08.5 Payment**

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

“Structure Surveying”, lump sum.

“Removing Existing Overlay From Bridge Deck\_\_\_\_”, per square yard.  
The unit Contract price per square yard for “Removing Existing Overlay From Bridge Deck\_\_\_\_”, shall be full pay for performing the Work as specified for full removal of Bituminous Pavement on Structure Decks, including the removal of existing waterproof membrane and disposing of materials.

“Bridge Deck Repair Br. No.\_\_\_\_”, per square foot.  
The unit Contract price per square foot for “Bridge Deck Repair Br. No.\_\_\_\_” shall be full pay for performing the Work as specified, including removing and disposing of the concrete within the repair area and furnishing, placing, finishing, and curing the repair concrete.

“Waterproof Membrane Br. No.\_\_\_\_”, per square yard.  
The unit Contract price per square yard for “Waterproof Membrane Br. No.\_\_\_\_” shall be full pay for performing the Work as specified, including repairing any damaged or defective waterproofing membrane and repair of damaged HMA overlay.

6-09.AP6

### **Section 6-09, Modified Concrete Overlays**

**April 4, 2016**

#### **6-09.3(8)A Quality Assurance for Microsilica Modified and Fly Ash Modified Concrete Overlays**

The first sentence of the first paragraph is revised to read the following two new sentences:

The Engineer will perform slump, temperature, and entrained air tests for acceptance in accordance with Section 6-02.3(5)D and as specified in this Section after the Contractor has turned over the concrete for acceptance testing. Concrete samples for testing shall be supplied to the Engineer in accordance with Section 6-02.3(5)E.

The last paragraph is deleted.

#### **6-09.3(8)B Quality Assurance for Latex Modified Concrete Overlays**

The first two paragraphs are deleted and replaced with the following:

The Engineer will perform slump, temperature, and entrained air tests for acceptance in accordance with Section 6-02.3(5)D and as specified in this Section after the Contractor has turned over the concrete for acceptance testing. The Engineer will perform testing

as the concrete is being placed. Samples shall be taken on the first charge through each mobile mixer and every other charge thereafter. The sample shall be taken after the first 2 minutes of continuous mixer operation. Concrete samples for testing shall be supplied to the Engineer in accordance with Section 6-02.3(5)E.

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

Recommendations made by the technical representative on or off the jobsite shall be adhered to by the Contractor.

6-10.AP6

## **Section 6-10, Concrete Barrier August 1, 2016**

### **6-10.3(5) Temporary Concrete Barrier**

This section title is revised to read:

#### **Temporary Barrier**

The first paragraph is revised to read:

For temporary barrier, the Contractor may use precast concrete barrier or temporary steel barrier. Temporary concrete barrier shall comply with Standard Plan requirements and cross-sectional dimensions, except that: (1) it may be made in other lengths than those shown in the Standard Plan, and (2) it may have permanent lifting holes no larger than 4 inches in diameter or lifting loops. Temporary steel barrier shall be certified that it meets NCHRP 350 or MASH crash test requirements and shall be installed in accordance with the manufacturer's recommendations.

### **6-10.4 Measurement**

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

Temporary barrier will be measured by the linear foot along the completed line and slope of the barrier, one time only for each setup of barrier protected area.

### **6-10.5 Payment**

The Bid item "Temporary Conc. Barrier", per linear foot, and the paragraph following this Bid item, is revised to read:

"Temporary Barrier", per linear foot.

The unit Contract price per linear foot for "Temporary Barrier" shall be full pay for all costs, including furnishing, installing, connecting, anchoring, maintaining, temporary storage, and final removal of the temporary barrier.

6-12.AP6

## **Section 6-12, Noise Barrier Walls January 3, 2017**

### **6-12.3(9) Access Doors and Concrete Landing Pads**

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

The Contractor shall construct concrete landing pads for each access door location as shown in the Plans.

## **6-12.5 Payment**

In the paragraph following the bid item “Noise Barrier Wall Access Door”, per each, “concrete landing pad” is revised to read “concrete landing pads”.

6-14.AP6

## **Section 6-14, Geosynthetic Retaining Walls January 3, 2017**

### **6-14.3(2) Submittals**

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

The Contractor shall submit Type 2E Working Drawings consisting of detailed plans for each wall.

## **6-14.5 Payment**

The bid item “Concrete Fascia Panel”, per square foot, and the paragraph following this bid item are revised to read:

“Concrete Fascia Panel For Geosynthetic Wall”, per square foot.

All costs in connection with constructing the concrete fascia panels as specified shall be included in the unit Contract price per square foot for “Concrete Fascia Panel For Geosynthetic Wall”, including all steel reinforcing bars, premolded joint filler, polyethylene bond breaker strip, joint sealant, PVC pipe for weep holes, exterior surface finish, and pigmented sealer (when specified), constructing and placing the concrete footing, edge beam, anchor beam, anchor rod assembly, and backfill.

6-19.AP6

## **Section 6-19, Shafts January 3, 2017**

### **6-19.3 Construction Requirements**

This section is supplemented with the following new subsection:

#### **6-19.3(10) Engineer’s Final Acceptance of Shafts**

The Engineer will determine final acceptance of each shaft, based on the nondestructive QA test results and analysis for the tested shafts, and will provide a response to the Contractor within 3 working days after receiving the test results and analysis submittal.

### **6-19.3(1)B Nondestructive Testing of Shafts**

This section’s content is deleted and replaced with the following new subsections:

#### **6-19.3(1)B1 Nondestructive Quality Assurance (QA) Testing of Shafts**

Unless otherwise specified in the Special Provisions, the Contractor shall perform nondestructive QA testing of shafts, except for those constructed completely in the dry. Either crosshole sonic log (CSL) testing in accordance with ASTM D 6760 or thermal integrity profiling (TIP) testing in accordance with ASTM D 7949 shall be used.

### **6-19.3(1)B2 Nondestructive Quality Verification (QV) Testing of Shafts**

The Contracting Agency may perform QV nondestructive testing of shafts that have been QA tested by the Contractor. The Contracting Agency may test up to ten percent of the shafts. The Engineer will identify the shafts selected for QV testing and the testing method the Contracting Agency will use.

The Contractor shall accommodate the Contracting Agency's nondestructive testing.

### **6-19.3(2) Shaft Construction Submittal**

This section is revised to read:

The shaft construction submittal shall be comprised of the following four components: construction experience; shaft installation narrative; shaft slurry technical assistance; and nondestructive QA testing personnel. The submittals shall be Type 2 Working Drawings, except the shaft slurry technical assistance and nondestructive QA testing personnel submittals shall be Type 1.

This section is supplemented with the following new subsection:

#### **6-19.3(2)D Nondestructive QA Testing Organization and Personnel**

The Contractor shall submit the names of the testing organizations, and the names of the personnel who will conduct nondestructive QA testing of shafts. The submittal shall include documentation that the qualifications specified below are satisfied. For TIP testing, the testing organization is the group that performs the data analysis and produces the final report. The testing organizations and the testing personnel shall meet the following minimum qualifications:

1. The testing organization shall have performed nondestructive tests on a minimum of three deep foundation projects in the last two years.
2. Personnel conducting the tests for the testing organization shall have a minimum of one year experience in nondestructive testing and interpretation.
3. The experience requirements for the organization and personnel shall be consistent with the testing methods the Contractor has selected for nondestructive testing of shafts.
4. Personnel preparing test reports shall be a Professional Engineers, licensed under Title 18 RCW, State of Washington, and in accordance with WAC 196-23-020.

### **6-19.3(3) Shaft Excavation**

The second paragraph is revised to read:

Shaft excavation shall not be started until the Contractor has received the Engineer's acceptance for the reinforcing steel centralizers required when the casing is to be pulled during concrete placement.

This section is supplemented with the following:

Except as otherwise noted, the Contractor shall not commence subsequent shaft excavations until receiving the Engineer's acceptance of the first shaft, based on the

results and analysis of the nondestructive testing for the first shaft. The Contractor may commence subsequent shaft excavations prior to receiving the Engineer's acceptance of the first shaft, provided the following condition is satisfied:

The Engineer permits continuing with shaft construction based on the Engineer's observations of the construction of the first shaft, including, but not limited to, conformance to the shaft installation narrative in accordance with Section 6-19.3(2)B, and the Engineer's review of Contractor's daily reports and Inspector's daily logs concerning excavation, steel reinforcing bar placement, and concrete placement.

**6-19.3(5)B Steel Reinforcing Bar Cage Centralizers**

This section is supplemented with the following new sentence:

The Contractor shall furnish and install additional centralizers as required to maintain the specified concrete cover throughout the length of the shaft.

**6-19.3(5)C Concrete Cover Over Steel Reinforcing Bars**

In the table, the second column (including heading) is revised to read:

<b>Minimum Concrete Cover, and Concrete Cover Tolerance, Except at Permanent Slip Casing (Inches)</b>
3, -1½
4, -2
4, -2
6, -3

The following new paragraph is inserted after the table:

The concrete cover tolerances specified above apply to the concrete cover specified in the Plans, even if it exceeds the minimum concrete cover.

**6-19.3(6) Access Tubes for Crosshole Sonic Log (CSL) Testing**

This section title is revised to read:

**6-19.3(6) Contractor Furnished Accessories for Nondestructive QA Testing**

This section is supplemented with the following three new subsections:

**6-19.3(6)D Shafts Requiring Thermal Wire**

The Contractor shall furnish and install thermal wire in all shafts receiving the thermal wire method of TIP testing, except as otherwise noted in Section 6-19.3(1)B1.

**6-19.3(6)E Thermal Wire and Thermal Access Points (TAPs)**

The thermal wire and associated couplers shall be obtained from the source specified in the Special Provisions.

The Contractor shall securely attach the thermal wire to the interior of the reinforcement cage of the shaft in conformance with the supplier's instructions. At a minimum, one thermal wire shall be furnished and installed for each foot of shaft diameter, rounded to the nearest whole number, as shown in the Plans. The number of thermal wires for shaft diameters specified as "X feet 6 inches" shall be rounded up to the next higher

whole number. The thermal wires shall be placed around the shaft, inside the spiral or hoop reinforcement, and tied to the vertical reinforcement with plastic “zip” ties at a maximum spacing of 2-feet. Steel tie wire shall not be used.

The thermal wire shall be installed in straight alignment and taut, but with enough slack to not be damaged during reinforcing cage lofting. The wires shall be as near to parallel to the vertical axis of the reinforcement cage as possible. The thermal wire shall extend from the bottom of the reinforcement cage to the top of the shaft, with 15-feet of slack wire provided above the top of shaft. Care shall be taken to prevent damaging the thermal wires during reinforcement cage installation and concrete placement operations in the shaft excavation.

After completing shaft reinforcement cage fabrication at the site and prior to installation of the cage into the shaft excavation, the Contractor shall install and connect thermal access points (TAPs) to the thermal wires. The TAPs shall record data for at least one hour after the cage is placed in the excavation to measure the slurry temperature and enable the steel and slurry temperatures to equilibrate prior to placing concrete in the shaft. The TAPs shall record and store data every 15 minutes. The TAPs shall remain active for a minimum of 36 hours.

Prior to beginning concrete placement the TAPs shall be checked to ensure they are recording data and that the wires have not been damaged. If a TAP unit is not functioning due to a damaged wire, the Contractor shall repair or replace the wire. If a TAP unit fails or a wire breaks after concrete placement has started, the Contractor shall not stop the concrete placement operation to repair the wire.

#### **6-19.3(6)F Use of Access Tubes for TIP Testing Under the Thermal Probe Method**

The Contractor may use access tubes for TIP testing under the thermal probe method. Access tubes shall be cared for in accordance with Section 6-19.3(6)C. Prior to TIP testing under the thermal probe method, the water in each tube shall be removed, collected, and stored in an insulated container. The access tube shall be blown dry and swabbed to remove residual water. After TIP testing, the collected and stored tube water shall be introduced back into the access tube. New potable water may be used, provided the water temperature is not more than 10°F cooler than the average concrete temperature measured by the probe.

#### **6-19.3(6)A Shafts Requiring CSL Access Tubes**

This section, including title, is revised to read:

##### **6-19.3(6)A Shafts Requiring Access Tubes**

The Contractor shall furnish and install access tubes in all shafts receiving CSL testing or the thermal probe method of TIP testing, except as otherwise noted in Section 6-19.3(1)B1.

#### **6-19.3(6)B Orientation and Assembly of the CSL Access Tubes**

This section's title is revised to read:

##### **6-19.3(6)B Orientation and Assembly of the Access Tubes**

### **6-19.3(6)C Care for CSL Access Tubes from Erection through CSL Testing**

This section's title is revised to read:

#### **6-19.3(6)C Care for Access Tubes from Erection Through Nondestructive QA Testing**

The second sentence is revised to read:

The Contractor shall keep all of a shaft's access tubes full of water through the completion of nondestructive QA testing of that shaft.

### **6-19.3(7)A Concrete Class for Shaft Concrete**

This section is revised to read:

Shaft concrete shall be Class 5000P conforming to Section 6-02.

### **6-19.3(7)B Concrete Placement Requirements**

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

The Section 6-02.3(6) restriction for 5 feet maximum free fall shall not apply to placement of concrete into a shaft.

### **6-19.3(7)I Requirements for Placing Concrete Above the Top of Shaft**

This section is revised to read:

Concrete shall not be placed above the top of shaft (for column splice zones, columns, footings, or shaft caps) until the Contractor receives the Engineer's acceptance of nondestructive QA testing, if performed at that shaft, and acceptance of the shaft.

### **6-19.3(9) Nondestructive Testing of Shafts (Crosshole Sonic Log (CSL) Testing)**

This section, including title, is revised to read:

#### **6-19.3(9) Nondestructive QA Testing of Shafts**

The Contractor shall provide nondestructive QA testing and analysis on all shafts with access tubes or thermal wires and TAPs facilitating the testing (See Section 6-19.3(1)B). The testing and analysis shall be performed by the testing organizations identified by the Contractor's submittal in accordance with Section 6-19.3(2)D.

The Engineer may direct that additional testing be performed at a shaft if anomalies or a soft bottom are detected by the Contractor's testing. If additional testing at a shaft confirms the presence of a defect(s) in the shaft, the testing costs and the delay costs resulting from the additional testing shall be borne by the Contractor in accordance with Section 1-05.6. If the additional testing indicates that the shaft has no defect, the testing costs and the delay costs resulting from the additional testing will be paid by the Contracting Agency in accordance with Section 1-05.6, and, if the shaft construction is on the critical path of the Contractor's schedule, a time extension equal to the delay created by the additional testing will be granted in accordance with Section 1-08.8.



### **6-19.3(9)A Schedule of CSL Testing**

This section, including title, is revised to read:

#### **6-19.3(9)A TIP Testing Using Thermal Probes or CSL Testing**

If selected as the nondestructive QA testing method by the Contractor, TIP testing using thermal probes, or CSL testing shall be performed after the shaft concrete has cured at least 96 hours. Additional curing time prior to testing may be required if the shaft concrete contains admixtures, such as set retarding admixture or water-reducing admixture, added in accordance with Section 6-02.3(3). The additional curing time prior to testing required under these circumstances shall not be grounds for additional compensation or extension of time to the Contractor in accordance with Section 1-08.8.

### **6-19.3(9)B Inspection of CSL Access Tubes**

This section's title is revised to read:

#### **6-19.3(9)B Inspection of Access Tubes**

### **6-19.3(9)C Engineer's Final Acceptance of Shafts**

This section, including title, is revised to read:

#### **6-19.3(9)C TIP Testing With Thermal Wires and TAPs**

If selected as the nondestructive QA testing method by the Contractor, TIP testing with thermal wires and TAPs (See Section 6-19.3(6)E) shall be performed. The TIP testing shall commence at the beginning of the concrete placement operation, recording temperature readings at 15-minute intervals until the peak temperature is captured in the data. Additional curing time may be required if the shaft concrete contains admixtures, such as set retarding admixture or water-reducing admixture, added in accordance with Section 6-02.3(3). The additional curing time required under these circumstances shall not be grounds for additional compensation or extension of time to the Contractor in accordance with Section 1-08.8.

TIP testing shall be conducted at all shafts in which thermal wires and TAPs have been installed for thermal wire analysis (Section 6-19.3(6)A).

### **6-19.3(9)D Requirements to Continue Shaft Excavation Prior to Acceptance of First Shaft**

This section, including title, is revised to read:

#### **6-19.3(9)D Nondestructive QA Testing Results Submittal**

The Contractor shall submit the results and analysis of the nondestructive QA testing for each shaft tested. The Contractor shall submit the test results within three working days of testing. Results shall be a Type 1 Working Drawing presented in a written report.

TIP reports shall include:

1. A map or plot of the wire/tube location within the shaft and their position relative to a known and identifiable location, such as North.
2. Graphical displays of temperature measurements versus depth of each wire or tube for the analysis time selected, overall average temperature with depth, shaft radius or diameter with depth, concrete cover versus cage position with depth, and effective radius.

3. The report shall identify unusual temperatures, particularly significantly cooler local deviations from the overall average.
4. The report shall identify the location and extent where satisfactory or questionable concrete is identified.
  - a. Satisfactory (S) - 0 to 6% Effective Radius Reduction and Cover Criteria Met
  - b. Questionable (Q) - Effective Local Radius Reduction > 6%, Effective Local Average Diameter Reduction > 4%, or Cover Criteria Not Met
5. Variations in temperature between wire/tubes (at each depth) which in turn correspond to variations in cage alignment.
6. Where shaft specific construction information is available (e.g. elevations of the top of shaft, bottom of casing, bottom of shaft, etc.), these values shall be noted on all pertinent graphical displays.

CSL reports shall include:

1. A map or plot of the tube location within the shaft and their position relative to a known and identifiable location, such as North.
2. Graphical displays of CSL Energy versus Depth and CSL signal arrival time versus depth or velocity versus depth.
3. The report shall identify the location and extent where good, questionable, and poor concrete is identified, where no signal was received, or where water is present.
  - a. Good (G) - No signal distortion and decrease in signal velocity of 10% or less is indicative of good quality concrete.
  - b. Questionable (Q) - Minor signal distortion and a lower signal amplitude with a decrease in signal velocity between 10% and 20%.
  - c. Poor (P) - Severe signal distortion and much lower signal amplitude with a decrease in signal velocity of 20% or more.
  - d. No Signal (NS) - No signal was received.
  - e. Water (W) - A measured signal velocity of nominally  $V = 4,800$  to  $5,000$  fps.

All QA test reports will provide a recommendation to accept the shaft as-is, recommendation for further review by the Engineer, or will provide a plan for further testing, investigation or repair to address any deficiencies identified by the testing.

### **6-19.3(9)E Additional CSL Testing**

This section, including title, is revised to read:

#### **6-19.3(9)E Vacant**

### **6-19.3(9)I Requirements for CSL Access Tubes and Cored Holes After CSL Testing**

This section's title is revised to read:

#### **6-19.3(9)I Requirements for Access Tubes and Cored Holes After CSL Testing**

### **6-19.4 Measurement**

This section is revised to read:

Constructing shafts will be measured by the linear foot. The linear foot measurement will be calculated using the top of shaft elevation and the bottom of shaft elevation for each shaft as shown in the Plans.

Rock excavation for shaft, including haul, will be measured by the linear foot of shaft excavated. The linear feet measurement will be computed using the top of the rock line, defined as the highest bedrock point within the shaft diameter, and the bottom elevation shown in the Plans.

QA shaft test will be measured once per shaft tested.

### **6-19.5 Payment**

This section is revised to read:

Payment will be made for the following Bid items when they are included in the Proposal:

“Constructing \_\_\_Diam. Shaft”, per linear foot.

The unit Contract price per linear foot for “Constructing \_\_\_Diam. Shaft” shall be full pay for performing the Work as specified, including:

1. Soil excavation for shaft, including all costs in connection with furnishing, mixing, placing, maintaining, containing, collecting, and disposing of all mineral, synthetic and water slurry, and disposing of groundwater collected by the excavated shaft.
2. Furnishing and placing temporary shaft casing, including temporary casing in addition to the required casing specified in the Special Provisions, and including all costs in connection with completely removing the casing after completing shaft construction.
3. Furnishing permanent casing for shaft.
4. Placing permanent casing for shaft.
5. Casing shoring, including all costs in connection with furnishing and installing casing shoring above the specified upper limit for casing shoring but necessary to provide for sufficient water head pressure to resist

artesian water pressure present in the shaft excavation, removing casing shoring, and placing seals when required.

6. Furnishing and placing steel reinforcing bar and epoxy-coated steel reinforcing bar, including furnishing and installing steel reinforcing bar centralizers.
7. Installation of CSL tubes or thermal wires.
8. Furnishing, placing and curing concrete to the top of shaft or to the construction joint at the base of the shaft-column splice zone as applicable.

Payment for "Constructing \_\_\_ Diam. Shaft" will be made upon Engineer acceptance of the shaft, including completion of satisfactory QA shaft tests as applicable.

"Rock Excavation For Shaft Including Haul", per linear foot.

When rock excavation is encountered, payment for rock excavation is in addition to the unit Contract price per linear foot for "Constructing \_\_\_ Diam. Shaft"

"Shoring Or Extra Excavation Cl. A - \_\_\_", lump sum.

The lump sum Contract price for "Shoring Or Extra Excavation Cl. A - \_\_\_" shall be full pay for performing the Work as specified, including all costs in connection with all excavation outside the limits specified for soil and rock excavation for shaft including haul, all temporary telescoping casings, and all temporary casings beyond the limits of required temporary casing specified in the Special Provisions.

"QA Shaft Test", per each.

The unit Contract price per each for "QA Shaft Test" shall be full pay for performing the Work as specified, including operating all associated accessories necessary to record and process data and develop the summary QA test reports. Section 1-04.6 does not apply to this bid item.

"Removing Shaft Obstructions", estimated.

Payment for removing, breaking-up, or pushing aside shaft obstructions, as defined in Section 6-19.3(3)E, will be made for the changes in shaft construction methods necessary to deal with the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified 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 "Removing Shaft Obstructions" in the Bid Proposal to become a part of the total Bid by the Contractor.

If drilled shaft tools, cutting teeth, casing or Kelly bar is damaged as a result of the obstruction removal work, the Contractor will be compensated for the costs to repair this equipment in accordance with Section 1-09.6.

If shaft construction equipment is idled as a result of the Work required to deal with the obstruction and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations.

If labor is idled as a result of the Work required to deal with the obstruction and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction Work estimated by the Contracting Agency within the original time of the Contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. The dollar amount estimated by the Contracting Agency has been exceeded, and
2. The Contractor shows that the obstruction removal Work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

7-02.AP7

### **Section 7-02, Culverts January 3, 2017**

#### **7-02.2 Materials**

The following three new items are inserted after the item "Aggregate for Portland Cement Concrete:

Gravel Backfill for Pipe Zone Bedding	9-03.12(3)
Butyl Rubber Sealant	9-04.11
External Sealing Band	9-04.12

The last paragraph is deleted.

#### **7-02.3(6) Precast Reinf. Conc. Three Sided Structures, Box Culverts and Split Box Culverts**

This section is supplemented with the following new paragraph:

When the Plans include a complete set of design details for a Structure (defining panel shapes and dimensions, concrete strength requirements, and steel reinforcing bar, joint, and connection details), the design and load rating preparation and calculation submittal requirements of Sections 7-02.3(6)A1 and 7-02.3(6)A2 do not apply for the components shown in the Plans, but all other requirements of this Section remain in effect. The Contractor may propose alternate concrete culvert designs, accommodating the same rise, span, and length as shown in the Plans, to replace the Structure details shown in the Plans. If an alternate concrete culvert design is proposed, all of the requirements of this Section, including design and load rating preparation and calculation submittal, apply.

#### **7-02.3(6)A General**

This section is supplemented with the following two new paragraphs:

Tolerances for PRCTSS shall be as follows:

1. Internal Dimensions – The internal dimension shall not vary more than 1 percent or 2 inches, whichever is less, from the Plan dimensions. The haunch dimensions shall not vary more than  $\frac{3}{4}$  inch from the Plan dimensions.

2. Slab and Wall Thickness – The slab and wall thickness shall not be less than that shown in the Plans by more than 5 percent or  $\frac{1}{2}$  inch, whichever is greater. A thickness more than that required in the Plans will not be a cause for rejection if proper joining is not affected.
3. Length of Opposite Surfaces – Variations in lengths of two opposite surfaces of the three-sided section shall not be more than  $\frac{3}{4}$  inch unless beveled sections are being used to accommodate a curve in the alignment.
4. Reinforcing steel placement shall meet the tolerances specified in Section 6-02.3(24)C.

Tolerances for PRCBC and PRCSBC shall be as follows:

1. Internal Dimensions – The internal dimensions shall not vary more than 1 percent from the Plan dimensions. If haunches are used, the haunch dimensions shall not vary more than  $\frac{1}{4}$  inch from the Plan dimensions.
2. Slab and Wall Thickness – The slab and wall thickness shall not be less than that shown in the Plans by more than 5 percent or  $\frac{3}{16}$  inch, whichever is greater. A thickness more than that required in the Plans will not be a cause for rejection.
3. Length of Opposite Box Segments – Variations in lengths of two opposite surfaces of the box segments shall not be more than  $\frac{1}{8}$  inch per foot of internal span, with a maximum of  $\frac{5}{8}$  inch for all sizes through 7 feet internal span, and a maximum of  $\frac{3}{4}$  inch for internal spans greater than 7 feet, except where beveled sections are being used to accommodate a curve in the alignment.
4. Length of Box Segments – The underrun in length of a segment shall not be more than  $\frac{1}{8}$  inch per foot of length with a maximum of  $\frac{1}{2}$  inch in any box segment.
5. Length of Legs and Slabs – The variation in length of the legs shall not be more than  $\frac{1}{8}$  inch per foot of the rise of the leg per leg with a maximum of  $\frac{5}{8}$  inches. The differential length between opposing legs of the same segment shall not be more than  $\frac{1}{2}$  inch. Length of independent top slab spans shall not vary by more than  $\frac{1}{8}$  inch per foot of span of the top slab, with a maximum of  $\frac{5}{8}$  inches.
6. Reinforcing steel placement shall meet the tolerances specified in Section 6-02.3(24)C.

This section is supplemented with the following new subsection:

**7-02.3(6)A5 Wingwalls and Retaining Walls**

Wingwalls and retaining walls (including cutoff walls and headwalls) shall be constructed in accordance with the Contractor's design and Working Drawing submittal or when the Plans include a complete set of design details for a wall (defining panel shapes and dimensions, concrete strength requirements, and steel reinforcing bar, joint, and connection details), the details shown in the Plans.

Precast concrete construction shall conform to Sections 6-02.3(28) and 6-11.3(3).

Culvert bedding material shall be furnished, placed, and compacted in accordance with Section 7-02.3(6)A4.

#### **7-02.3(6)A1 Design Criteria**

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

Whenever the minimum finished backfill or surfacing depth above the top of the Structure is less than 1'-0" (except when the top of the Structure is directly exposed to vehicular traffic), either all steel reinforcing bars in the span unit shall be epoxy-coated with 2" minimum concrete cover from the face of concrete to the face of the top mat of steel reinforcing bars, or the minimum concrete cover shall be 2½".

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

Concrete cover from the face of any concrete surface to the face of any steel reinforcement shall be 1-inch minimum end clearance at all joints, and 2-inches minimum at all other locations.

#### **7-02.3(6)A2 Submittals**

The first paragraph is revised to read:

The Contractor shall submit shop drawings of the precast Structures. Fabrication shop drawings replicating complete design details when shown in the Plans shall be Type 2 Working Drawings. Submittals completing the design based on the schematic geometric requirements shown in the Plans, or proposing a Contractor designed alternative concrete culvert Structure shall be Type 2E Working Drawings with supporting design calculations.

The last paragraph is revised to read:

For precast Structures with a span length greater than 20-feet (as defined in Section 7-02.3(6)A1), except when the depth of fill above the top of culvert exceeds the Structure span length, a Type 2E Working Drawing shall be submitted consisting of a load rating report prepared in accordance with the AASHTO Manual for Bridge Evaluation and WSDOT Bridge Design Manual LRFD M 23-50 Chapter 13. Soil pressures used shall include effects from the backfill material and compaction methods, and shall be in accordance with the WSDOT Geotechnical Design Manual M 46-03 and the geotechnical report prepared for the project.

#### **7-02.3(6)A3 Casting**

This section is revised to read:

Concrete shall conform to Section 6-02.3(28)B, with a 28-day compressive strength as specified in the Plans or the Working Drawings submittal.

### **7-02.3(6)A4 Excavation and Bedding Preparation**

The last paragraph is revised to read:

The upper layer of bedding course shall be a 6-inch minimum thickness layer of culvert bedding material, defined as granular material either conforming to Section 9-03.12(3) or to AASHTO Grading No. 57 as specified in Section 9-03.1(4)C. The plan limits of the culvert bedding material shall extend 1-foot beyond the plan limits of the culvert or the Structure footing as applicable. The culvert bedding material shall be compacted in accordance with the Section 2-09.3(1)E requirements for gravel backfill for drains. After compaction, the culvert bedding material shall be screeded transversely to the specified line and grade. Voids in the screeded culvert bedding material shall be filled and then rescreeded prior to erecting the precast Structure.

### **7-02.3(6)B3 Erection**

The last paragraph is revised to read:

Adjacent precast sections shall be connected by welding the weld-tie anchors in accordance with Section 6-03.3(25). Welding ground shall be attached directly to the steel plates being welded when welding the weld-ties. The weld-tie anchor spacing shall not exceed 6'-0". After connecting the weld-tie anchors, the Contractor shall paint the exposed metal surfaces with one coat of field primer conforming to Section 9-08.1(2)F. Keyways shall be filled with grout conforming to Section 9-20.3(2).

### **7-02.3(6)C1 Casting**

This section is revised to read:

PRCSBC shall consist of lid elements and "U" shaped base elements. The vertical legs of the "U" shaped base elements shall be full height matching the rise of the culvert, except as otherwise specified for culvert spans greater than 20-feet. For PRCSBC spans greater than 20-feet (as defined in Section 7-02.3(6)A1), the lid elements may include vertical legs of a maximum length of 4-feet.

All vertical and horizontal joints of PRCBC and PRCSBC elements shall be tongue and groove type joints, except PRCBC and PRCSBC of 20-foot span or less may have keyway joints connected by weld-tie anchors in accordance with Section 6-02.3(25)O. The weld-tie anchor spacing shall not exceed 6'-0". There shall be at least two galvanized steel tie plates across each top unit tongue and groove joint and each tongue and groove joint between upper and lower units, unless otherwise shown in the Plans or required by the seismic designed completed in accordance with Section 7-02.3(6)A1.

### **7-02.3(6)C3 Erection**

This section is revised to read:

PRCBC and PRCSBC shall be erected and backfilled in accordance with the erection sequence specified in the Working Drawing submittal, and the construction equipment restrictions specified in Section 6-02.3(25)O.

The Contractor shall install a continuous strip of butyl rubber sealant within all tongue and groove joints prior to connecting the precast elements together. The butyl rubber sealant shall have a minimum cross section of ½-inch by 1½-inch, unless otherwise shown in the Plans.



After connecting the joints with weld-tie anchors, the Contractor shall paint the exposed metal surfaces with one coat of field primer conforming to Section 9-08.1(2)F. Keyways shall be filled with grout conforming to Section 9-20.3(2).

The Contractor shall wrap all exterior joints along the top and sides of the PRCBC and PRCSBC with a 12-inch wide strip of external sealing band centered about the joint and adhesively bonded to the concrete surface.

Backfill beside the PRCBC and PRCSBC shall be brought up in sequential layers, compacted concurrently. The difference in backfill height on opposing sides of the Structure shall not exceed 2-feet.

#### **7-02.4 Measurement**

This section is supplemented with the following:

Culvert bedding material will be measured by the cubic yard of material placed.

#### **7-02.5 Payment**

This section is supplemented with the following:

“Culvert Bedding Material”, per cubic yard.

7-08.AP7

### **Section 7-08, General Pipe Installation Requirements January 3, 2017**

#### **7-08.3(1)A Trenches**

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

The embankment material shall be compacted to 95 percent of maximum density and the moisture content at the time of compaction shall be between optimum and 3 percentage points below optimum as determined by the Compaction Control Tests specified in Section 2-03.3(14)D.

7-09.AP7

### **Section 7-09, Water Mains April 3, 2017**

#### **7-09.3(24)D Dry Calcium Hypochlorite**

The second paragraph is revised to read:

The number of grams of 70 percent test calcium hypochlorite required for a 20-foot length of pipe equals  $0.238 \times d^2$ , in which “d” is the diameter in inches.

8-01.AP8

### **Section 8-01, Erosion Control and Water Pollution Control August 1, 2016**

#### **8-01.2 Materials**

This section is supplemented with the following new paragraph:

Recycled concrete, in any form, shall not be used for any Work defined in Section 8-01.

### **8-01.3(7) Stabilized Construction Entrance**

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

Material used for stabilized construction entrance shall be free of extraneous materials that may cause or contribute to track out.

### **8-01.3(8) Street Cleaning**

This section is revised to read:

Self-propelled street sweepers shall be used to remove and collect sediment and other debris from the Roadway, whenever required by the Engineer. The street sweeper shall effectively collect these materials and prevent them from being washed or blown off the Roadway or into waters of the State. Street sweepers shall not generate fugitive dust and shall be designed and operated in compliance with applicable air quality standards.

Material collected by the street sweeper shall be disposed of in accordance with Section 2-03.3(7)C.

Street washing with water will require the concurrence of the Engineer.

8-09.AP8

### **Section 8-09, Raised Pavement Markers January 3, 2017**

#### **8-09.5 Payment**

In the last paragraph, “flaggers and spotters” is revised to read “flaggers”.

8-10.AP8

### **Section 8-10, Guide Posts January 4, 2016**

#### **8-10.3 Construction Requirements**

The last sentence of the second paragraph is deleted.

8-11.AP8

### **Section 8-11, Guardrail January 17, 2017**

#### **8-11.3(1)C Terminal and Anchor Installation**

This section is supplemented with the following new paragraph:

Beam Guardrail Non-flared Terminals for Type 1 guardrail shall meet the crash test and evaluation criteria of NCHRP 350 or the Manual for Assessing Safety Hardware (MASH). Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the crash test and evaluation criteria of MASH.

#### **8-11.3(1)F Removing and Resetting Beam Guardrail**

The last sentence of the first paragraph is deleted.

### **8-11.5 Payment**

The paragraph following the Bid item “Removing and Resetting Beam Guardrail”, per linear foot is revised to read:

The unit Contract price per linear foot for “Removing and Resetting Beam Guardrail” shall be full payment for all costs to perform the Work as described in Section 8-11.3(1)F, except for replacement posts and blocks.

The paragraph following the Bid item “Raising Existing Beam Guardrail”, per linear foot is revised to read:

The unit Contract price per linear foot for “Raising Existing Beam Guardrail” shall be full payment for all costs to perform the Work as described in Section 8-11.3(1)E, except for replacement posts and blocks.

8-20.AP8

## **Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation Systems, and Electrical January 3, 2017**

### **8-20.1(1) Regulations and Code**

The second paragraph is revised to read:

Wherever reference is made in these Specifications or in the Special Provisions to the Code, the rules, or the standards mentioned above, the reference shall be construed to mean the code, rule, or standard that is in effect on the Bid advertisement date.

### **8-20.3(5)A General**

The last paragraph is revised to read:

Immediately after the sizing mandrel has been pulled through, install an equipment grounding conductor if applicable (see Section 8-20.3(9)) and any new or existing wire or cable as specified in the Plans. Where conduit is installed for future use, install a 200-pound minimum tensile strength pull string with the equipment grounding conductor. The pull string shall be attached to duct plugs or caps at both ends of the conduit.

### **8-20.3(5)A1 Fiber Optic Conduit**

The last paragraph is deleted.

### **8-20.3(5)B Conduit Type**

The second and third paragraphs are deleted and replaced with the following new paragraph:

PVC and HDPE conduits shall be Schedule 80 unless installed as innerduct.

### **8-20.3(5)D Conduit Placement**

Item number 2 is revised to read:

2. 24-inches below the top of the untreated surfacing on a Roadbed.

### **8-20.3(9) Bonding, Grounding**

The following two new paragraphs are inserted after the first paragraph:

Install an equipment grounding conductor in all new conduit, whether or not the equipment grounding conductor is called for in the wire schedule.

For each new conduit with innerduct install an equipment grounding conductor in only one of the innerducts unless otherwise required by the NEC or the Plans.

The fourth paragraph (after the preceding Amendments are applied) is revised to read:

Bonding jumpers and equipment grounding conductors meeting the requirements of Section 9-29.3(2)A3 shall be minimum #8 AWG, installed in accordance with the NEC. Where existing conduits are used for the installation of new circuits, an equipment grounding conductor shall be installed unless an existing equipment ground conductor, which is appropriate for the largest circuit, is already present in the existing raceway. The equipment ground conductor between the isolation switch and the sign lighter fixtures shall be minimum #14 AWG stranded copper conductor. Where parallel circuits are enclosed in a common conduit, the equipment-grounding conductor shall be sized by the largest overcurrent device serving any circuit contained within the conduit.

The second sentence of the fifth paragraph (after the preceding Amendments are applied) is revised to read:

A non-insulated stranded copper conductor, minimum #8 AWG with a full circle crimp on connector (crimped with a manufacturer recommended crimper) shall be connected to the junction box frame or frame bonding stud, the other end shall be crimped to the equipment bonding conductor, using a "C" type crimp connector.

The last two sentences of the sixth paragraph (after the preceding Amendments are applied) are revised to read:

For light standards, signal standards, cantilever and sign bridge Structures the supplemental grounding conductor shall be #4 AWG non-insulated stranded copper conductor. For steel sign posts which support signs with sign lighting or flashing beacons the supplemental grounding conductor shall be #6 AWG non insulated stranded copper conductor.

The fourth to last paragraph is revised to read:

Install a two grounding electrode system at each service entrance point, at each electrical service installation and at each separately derived power source. The service entrance grounding electrode system shall conform to the "Service Ground" detail in the Standard Plans. If soil conditions make vertical grounding electrode installation impossible an alternate installation procedure as described in the NEC may be used. Maintain a minimum of 6 feet of separation between any two grounding electrodes within the grounding system. Grounding electrodes shall be bonded copper, ferrous core materials and shall be solid rods not less than 10 feet in length if they are 1/2 inch in diameter or not less than 8 feet in length if they are 5/8 inch or larger in diameter.

### **8-20.3(13)A Light Standards**

The first sentence in the second to last paragraph is revised to read:

All new and relocated metal light standards shall be numbered for identification using painted 4 inch block gothic letters (similar to series C highway lettering) and numbers installed 3 feet above the base facing the Traveled Way.

The numbered list in the second to last paragraph is deleted and replaced with the following:

NN  
CC-SSSS  
VVV

Where:

- NN** – Is the pole number as identified in the Plans. May be one or more characters.
- CC** – Is the circuit letter as identified in the Plans. May be one or more characters.
- SSSS** – Is the service cabinet number as identified in the Plans. Do not include the two or three letter prefix. Up to four digits - do not include leading zeros.
- VVV** – Is the operating voltage of the luminaire. Always three digits.

### **8-20.3(13)C Luminaires**

The first paragraph is revised to read:

The Contractor shall mark the installation date on the inside of the luminaire ballast or driver housing using a permanent marking pen.

8-22.AP8

## **Section 8-22, Pavement Marking January 4, 2016**

### **8-22.4 Measurement**

The first two sentences of the fourth paragraph are revised to read:

The measurement for “Painted Wide Lane Line”, “Plastic Wide Lane Line”, “Profiled Plastic Wide Lane Line”, “Painted Barrier Center Line”, “Plastic Barrier Center Line”, “Painted Stop Line”, “Plastic Stop Line”, “Painted Wide Dotted Entry Line”, or “Plastic Wide Dotted Entry Line” will be based on the total length of each painted, plastic or profiled plastic line installed. No deduction will be made for the unmarked area when the marking includes a broken line such as, wide broken lane line, drop lane line, wide dotted lane line or wide dotted entry line.

### **8-22.5 Payment**

The following two new Bid items are inserted after the Bid item “Plastic Crosshatch Marking”, per linear foot:

“Painted Wide Dotted Entry Line”, per linear foot.

“Plastic Wide Dotted Entry Line”, per linear foot.

9-01.AP9

**Section 9-01, Portland Cement  
January 3, 2017**

This section's title is revised to read:

**Cement**

**9-01.1 Types of Cement**

This section is revised to read:

Cement shall be classified as portland cement, blended hydraulic cement, or rapid hardening hydraulic cement.

**9-01.2(2) Vacant**

This section, including title, is revised to read:

**9-01.2(2) Rapid Hardening Hydraulic Cement**

Rapid hardening hydraulic cement shall meet the requirements of ASTM C 1600.

**9-01.2(3) Low Alkali Cement**

This section is renumbered as follows:

**9-01.2(1)A Low Alkali Cement**

**9-01.2(4) Blended Hydraulic Cement**

This section is renumbered as follows:

**9-01.2(1)B Blended Hydraulic Cement**

In the first paragraph, the last two sentences of item number 3 are revised to read:

Separate testing of each source of fly ash at each proposed replacement level shall be conducted in accordance with ASTM C1012 at the storage temperature prescribed in Section 9.3 of the test procedure. Expansion at 180 days shall be 0.10 percent or less.

In the first paragraph, the last two sentences of item number 4 are revised to read:

Separate testing of each source of slag at each proposed replacement level shall be conducted in accordance with ASTM C1012 at the storage temperature prescribed in Section 9.3 of the test procedure. Expansion at 180 days shall be 0.10 percent or less.

In the first paragraph, the last two sentences of item number 5 are revised to read:

Separate testing of each source of fly ash or slag at each proposed replacement level shall be conducted in accordance with ASTM C1012 at the storage temperature prescribed in Section 9.3 of the test procedure. Expansion at 180 days shall be 0.10 percent or less.

### 9-01.3 Tests and Acceptance

The second paragraph is revised to read:

Cement producers/suppliers that certify portland cement or blended hydraulic cement shall participate in the Cement Acceptance Program as described in WSDOT Standard Practice QC 1. Rapid hardening hydraulic cement producers/suppliers are not required to participate in WSDOT Standard Practice QC 1.

9-03.AP9

### Section 9-03, Aggregates January 3, 2017

#### 9-03.1(1) General Requirements

In this section, each reference to "Section 9-01.2(3)" is revised to read "Section 9-01.2(1)A".

This first paragraph is supplemented with the following:

Reclaimed aggregate may be used if it complies with the specifications for Portland Cement Concrete. Reclaimed aggregate is aggregate that has been recovered from plastic concrete by washing away the cementitious materials.

#### 9-03.1(2) Fine Aggregate for Portland Cement Concrete

This section is revised to read:

Fine aggregate shall consist of natural sand or manufactured sand, or combinations thereof, accepted by the Engineer, having hard, strong, durable particles free from adherent coating. Fine aggregate shall be washed thoroughly to meet the specifications.

#### 9-03.1(2)A Deleterious Substances

This section is revised to read:

The amount of deleterious substances in the washed aggregate shall be tested in accordance with AASHTO M 6 and not exceed the following values:

Material finer than No. 200 Sieve	2.5 percent by weight
Clay lumps and friable particles	3.0 percent by weight
Coal and lignite	0.25 percent by weight
Particles of specific gravity less than 2.00	1.0 percent by weight.

Organic impurities shall be tested in accordance with AASHTO T 21 by the glass color standard procedure and results darker than organic plate no. 3 shall be rejected. A darker color results from AASHTO T 21 may be used provided that when tested for the effect of organic impurities on strength of mortar, the relative strength at 7 days, calculated in accordance with AASHTO T 71, is not less than 95 percent.

#### 9-03.1(4) Coarse Aggregate for Portland Cement Concrete

This section is revised to read:

Coarse aggregate for concrete shall consist of gravel, crushed gravel, crushed stone, or combinations thereof having hard, strong, durable pieces free from adherent coatings. Coarse aggregate shall be washed to meet the specifications.

### **9-03.1(4)A Deleterious**

This section, including title, is revised to read:

#### **9-03.1(4)A Deleterious Substances**

The amount of deleterious substances in the washed aggregate shall be tested in accordance with AASHTO M 80 and not exceed the following values:

Material finer than No. 200	1.0 <sup>1</sup> percent by weight
Clay lumps and Friable Particles	2.0 percent by weight
Shale	2.0 percent by weight
Wood waste	0.05 percent by weight
Coal and Lignite	0.5 percent by weight
Sum of Clay Lumps, Friable Particles, and Chert (Less Than 2.40 specific gravity SSD)	3.0 percent by weight

<sup>1</sup>If the material finer than the No. 200 sieve is free of clay and shale, this percentage may be increased to 1.5.

### **9-03.1(4)C Grading**

The following new sentence is inserted at the beginning of the last paragraph:

Where coarse aggregate size 467 is used, the aggregate may be furnished in at least two separate sizes.

### **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**

This section is revised to read:

As an alternative to using the fine aggregate sieve grading requirements in Section 9-03.1(2)B, and coarse aggregate sieve grading requirements in Section 9-03.1(4)C, a combined aggregate gradation conforming to the requirements of Section 9-03.1(5)A may be used.

### **9-03.1(5)A Deleterious Substances**

This section is revised to read:

The amount of deleterious substances in the washed aggregates  $\frac{3}{8}$  inch or larger shall not exceed the values specified in Section 9-03.1(4)A and for aggregates smaller than  $\frac{3}{8}$  inch they shall not exceed the values specified in Section 9-03.1(2)A.

### **9-03.1(5)B Grading**

The first paragraph is deleted.

### **9-03.8(2) HMA Test Requirements**

In the table in item number 3, the heading "Statistical and Nonstatistical" is revised to read "Statistical".

### **9-03.8(7) HMA Tolerances and Adjustments**

In the table in item number 1, the column titled "Nonstatistical Evaluation" is deleted.

In the table in item 1, the last column titled "Commercial Evaluation" is revised to read "Visual Evaluation".



### **9-03.11(1) Streambed Sediment**

The following three new sentences are inserted after the first sentence of the first paragraph:

Alternate gradations may be used if proposed by the Contractor and accepted by the Engineer. The Contractor shall submit a Type 2 Working Drawing consisting of 0.45 power maximum density curve of the proposed gradation. The alternate gradation shall closely follow the maximum density line and have Nominal Aggregate Size of no less than 1½ inches or no greater than 3 inches.

### **9-03.12(4) Gravel Backfill for Drains**

The following new sentence is inserted at the beginning of the second paragraph:

As an alternative, AASHTO grading No. 57 may be used in accordance with Section 9-03.1(4)C.

### **9-03.12(5) Gravel Backfill for Drywells**

The following new sentence is inserted at the beginning of the second paragraph:

As an alternative, AASHTO grading No. 4 may be used in accordance with Section 9-03.1(4)C.

### **9-03.21(1)B Concrete Rubble**

This section, including title, is revised to read:

#### **9-03.21(1)B Recycled Concrete Aggregate**

Recycled concrete aggregates are coarse aggregates manufactured from hardened concrete mixtures. Recycled concrete aggregate may be used as coarse aggregate or blended with coarse aggregate for Commercial Concrete. Recycled concrete aggregate shall meet all of the requirements for coarse aggregate contained in Section 9-03.1(4) or 9-03.1(5). In addition to the requirements of Section 9-03.1(4) or 9-03.1(5), recycled concrete shall:

1. Contain an aggregated weight of less than 1 percent of adherent fines, vegetable matter, plastics, plaster, paper, gypsum board, metals, fabrics, wood, tile, glass, asphalt (bituminous) materials, brick, porcelain or other deleterious substance(s) not otherwise noted;
2. Be free of harmful components such as chlorides and reactive materials unless mitigation measures are taken to prevent recurrence in the new concrete;
3. Have an absorption of less than 10 percent when tested in accordance with AASHTO T 85.

Recycled concrete aggregate shall be in a saturated condition prior to mixing.

Recycled concrete aggregate shall not be placed below the ordinary high water mark of any water of the State.

### **9-03.21(1)D Recycled Steel Furnace Slag**

This section title is revised to read:

#### **Steel Slag**

### 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled Material

In the Hot Mix Asphalt column, each value of “20” is revised to read “25”.

The last column heading “Steel Furnace Slag” is revised to read “Steel Slag”.

The following new row is inserted after the second row:

Coarse Aggregate for Commercial Concrete	9-03.1(4)	0	100	0	0
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9-04.AP9

### Section 9-04, Joint and Crack Sealing Materials January 3, 2017

This section is supplemented with the following two new subsections:

#### 9-04.11 Butyl Rubber Sealant

Butyl rubber sealant shall conform to ASTM C 990.

#### 9-04.12 External Sealing Band

External sealing band shall by Type III B conforming to ASTM C 877.

### 9-04.1(2) Premolded Joint Filler for Expansion Joints

This section is supplemented with the following:

As an alternative to the above, a semi-rigid, non-extruding, resilient type, closed-cell polypropylene foam, preformed joint filler with the following physical properties as tested to AASHTO T 42 Standard Test Methods may be used.

Closed-Cell Polypropylene Foam Preformed Joint Filler		
Physical Property	Requirement	Test Method
Water Absorption	< 1.0%	AASHTO T 42
Compression Recovery	> 80%	AASHTO T 42
Extrusion	< 0.1 in.	AASHTO T 42
Density	> 3.5 lbs./cu.ft.	AASHTO T 42
Water Boil (1 hr.)	No expansion	AASHTO T 42
Hydrochloric Acid Boil (1 hr.)	No disintegration	AASHTO T 42
Heat Resistance °F	392°F± 5°F	ASTM D 5249

### 9-04.2(1) Hot Poured Joint Sealants

This section’s content is deleted and replaced with the following new subsections:

#### 9-04.2(1)A Hot Poured Sealant

Hot poured sealant shall be sampled in accordance with ASTM D5167 and tested in accordance with ASTM D5329.

#### **9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement**

Hot poured sealant for cement concrete pavement shall meet the requirements of ASTM D6690 Type IV, except for the following:

1. The Cone Penetration at 25°C shall be 130 maximum.
2. The extension for the Bond, non-immersed, shall be 100 percent.

#### **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**

Hot poured sealant for bituminous pavement shall meet the requirements of ASTM D6690 Type I or Type II.

#### **9-04.2(1)B Sand Slurry for Bituminous Pavement**

Sand slurry is mixture consisting of the following components measured by total weight:

1. Twenty percent CSS-1 emulsified asphalt,
2. Two percent portland cement, and
3. Seventy-eight percent fine aggregate meeting the requirements of 9-03.1(2)B Class 2. Fine aggregate may be damp (no free water).

#### **9-04.2(2) Poured Rubber Joint Sealer**

The last paragraph is deleted.

#### **9-04.4(1) Rubber Gaskets for Concrete Pipes and Precast Manholes**

“AASHTO M 198” is revised to read “ASTM C 990”.

#### **9-04.4(3) Gaskets for Aluminum or Steel Culvert or Storm Sewer Pipe**

In the last sentence, “AASHTO M 198” is revised to read “ASTM C 990”.

9-06.AP9

### **Section 9-06, Structural Steel and Related Materials**

**January 3, 2017**

#### **9-06.5(3) High-Strength Bolts**

In this section, “ASTM A325” is revised to read “ASTM F3125 Grade A325”, “ASTM A490” is revised to read “ASTM F3125 Grade A490”, and “ASTM F1852” is revised to read “ASTM F3125 Grade F1852”.

In the fifth paragraph, “ASTM-A325” is revised to read “ASTM F3125”.

#### **9-06.12 Bronze Castings**

In this section, “AASHTO M107” is revised to read “ASTM B22”.

#### **9-06.16 Roadside Sign Structures**

In the first paragraph, “ASTM A325” is revised to read “ASTM F3125 Grade A325”.

9-07.AP9

**Section 9-07, Reinforcing Steel  
August 1, 2016**

**9-07.1(1)A Acceptance of Materials**

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

Reinforcing steel rebar manufacturers shall comply with the National Transportation Product Evaluation Program (NTPEP) Work Plan for Reinforcing Steel (rebar) Manufacturers.

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

Steel reinforcing bar manufacturers use either English or a Metric size designation while stamping rebar.

**9-07.1(2) Bending**

The first two sentences of the first paragraph are deleted and replaced with the following two new sentences:

Steel reinforcing bars shall be cut and bent cold to the shapes shown on the Plans. Fabrication tolerances shall be in accordance with ACI 315.

9-10.AP9

**Section 9-10, Piling  
August 1, 2016**

**9-10.3 Cast-In-Place Concrete Piling**

This section is revised to read:

Reinforcement for cast-in-place concrete piles shall conform to Section 9-07.2.

9-11.AP9

**Section 9-11, Waterproofing  
January 3, 2017**

This section (and all subsections), including title, is revised to read:

**9-11 Waterproof Membrane**

**9-11.1 Asphalt for Waterproofing**

Waterproof membrane shall be a sheet membrane conforming to ASTM D 6153 Type III, the puncture capacity specified below, and either the thin polymer sheet tensile stress or the geotextile and fabric grab tensile strength specified below:

<b>Performance Properties</b>	<b>Test Method</b>	<b>Specification Requirements</b>
Tensile Stress (for Thin Polymer Sheets)	ASTM D 882	75 pounds per inch min.
Grab Tensile Strength (for Geotextiles and Fabrics)	ASTM D 4632 (Woven or Nonwoven)	200 pounds min.
Puncture Capacity (For Thin Polymer Sheets, Geotextiles and Fabrics)	ASTM E 154	200 pounds min.

Waterproofing membrane will be accepted based on a Manufacturer's Certificate of Compliance with each lot of waterproof membrane.

#### **9-11.2 Primer for Waterproof Membrane**

The primer for the waterproof membrane shall be appropriate for bonding the sheet membrane to the bridge deck surface and shall be compatible with the membrane in accordance with the waterproof membrane manufacturer's recommendations.

9-16.AP9

### **Section 9-16, Fence and Guardrail January 17, 2017**

#### **9-16.3(3) Galvanizing**

The first three sentences are deleted and replaced with the following single sentence:

W-beam or three beam rail elements and terminal sections shall be galvanized in accordance with AASHTO M 180, Class A, Type II.

9-20.AP9

### **Section 9-20, Concrete Patching Material, Grout, and Mortar January 3, 2017**

This section is supplemented with the following new subsection:

#### **9-20.5 Bridge Deck Repair Material**

Bridge deck repair material shall be either an ultra-low viscosity, two-part liquid, polyurethane-hybrid polymer concrete, or a pre-packaged cement based repair mortar, conforming to the following requirements:

1. Minimum compressive strength of 2,500 psi, in accordance with ASTM C 109.
2. Total soluble chloride ion content by mass of product shall conform to the limits specified in Section 6-02.3(2) for reinforced concrete.
3. Permeability of less than 2,000 coulombs at 56-days in accordance with AASHTO T 277.

If pre-packaged deck repair material does not include coarse aggregate, the Contractor shall extend the mix with coarse aggregate as recommended by the manufacturer.

9-23.AP9

### **Section 9-23, Concrete Curing Materials and Admixtures January 3, 2017**

#### **9-23.9 Fly Ash**

The first paragraph is revised to read:

Fly ash shall conform to the requirements of AASHTO M295 Class C or F including supplementary optional chemical requirements as set forth in Table 2.

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

The supplementary optional chemical limits in AASHTO M295 Table 2 do not apply to fly ash used in Controlled Density Fill.

### **9-23.12 Metakaolin**

This section, including title, is revised to read:

#### **9-23.12 Natural Pozzolan**

Natural Pozzolans shall be either Metakaolin or ground Pumice and shall conform to the requirements of AASHTO M295 Class N, including supplementary optional chemical requirements as set forth in Table 2.

9-28.AP9

### **Section 9-28, Signing Materials and Fabrication April 3, 2017**

#### **9-28.14(3) Aluminum Structures**

This section is revised to read:

Welding of aluminum shall be in accordance with AWS D1.2/D1.2M, latest edition, Structural Welding Code – Aluminum.

Aluminum alloy filler metals utilized on anodized structures shall result in color matching to base metals.

9-29.AP9

### **Section 9-29, Illumination, Signal, Electrical January 3, 2017**

#### **9-29.2 Junction Boxes, Cable Vaults, and Pull Boxes**

This section is supplemented with the following new subsections:

##### **9-29.2(5) Testing Requirements**

The Contractor shall provide for testing of junction boxes, cable vaults and pull boxes. Junction boxes, cable vaults and pull boxes shall be tested by an independent materials testing facility, and a test report issued documenting the results of the tests performed.

For each junction box, vault and pull box type, the independent testing laboratory shall meet the requirements of AASHTO R 18 for Qualified Tester and Verified Test Equipment. The test shall be conducted in the presence of a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural, and each test sheet shall have the Professional Engineer's original signature, date of signature, original seal, and registration number. One copy of the test report shall be furnished to the Contracting Agency certifying that the box and cover meet or exceed the loading requirements for that box type, and shall include the following information:

1. Product identification.
2. Date of testing.
3. Description of testing apparatus and procedure.

4. All load deflection and failure data.
5. Weight of box and cover tested.
6. Upon completion of the required test(s) the box shall be loaded to failure or to the maximum load possible on the testing machine (70,000 pounds minimum).
7. A brief description of type and location of failure or statement that the testing machine reached maximum load without failure of the box.

**9-29.2(5)A Standard Duty Boxes and Vaults**

Standard Duty Concrete Junction Boxes, Cable Vaults, and Pull Boxes shall be load tested to 22,500 pounds. The test load shall be applied uniformly through a 10 by 10 by 1-inch steel plate centered on the lid. The test load shall be applied and released ten times, and the deflection at the test load and released state shall be recorded for each interval. At each interval the junction box shall be inspected for lid deformation, failure of the lid/frame welds, vertical and horizontal displacement of the lid/frame, cracks, and concrete spalling.

Concrete junction boxes will be considered to have withstood the test if none of the following conditions are exhibited:

1. Permanent deformation of the lid or any impairment to the function of the lid.
2. Vertical or horizontal displacement of the lid frame.
3. Cracks wider than 0.012 inches that extend 12 inches or more.
4. Fracture or cracks passing through the entire thickness of the concrete.
5. Spalling of the concrete.

**9-29.2(5)B Retrofit Security Lids for Standard Duty Concrete Junction Boxes**

Security lids used to retrofit existing Standard Duty Concrete Junction Boxes shall be tested as follows:

1. The security lid shall be installed on any appropriately sized box that is currently approved on the Qualified Products List.
2. The security lid and box assembly shall be load tested in accordance with Section 9-29.2(5)A. After the ten load cycles but before loading to failure, the security lid shall be fully opened and removed to verify operability.
3. The locking mechanism(s) shall be tested as follows:
  - a. The locking mechanism shall be cycled 250 times (locked, then unlocked again) at room temperature (60-80°F). If there is more than one identical locking mechanism, only one needs to be cycled in this manner.

- b. Temperature changes should be limited to no more than 60°F per hour.
- c. The security lid shall be cooled to and held at -30°F for 15 minutes. The locking mechanism shall then be cycled once to verify operation at this temperature.
- d. The security lid shall be heated to and held at 120-122°F for 15 minutes. The locking mechanism shall then be cycled once to verify operation at this temperature.
- e. The security lid shall be temperature adjusted to and held at 110°F and 95% humidity for 15 minutes. The locking mechanism shall then be cycled once to verify operation at this temperature and humidity.

**9-29.2(5)C Standard Duty Non-Concrete Junction Boxes**

Non-concrete Junction Boxes shall be tested as defined in the ANSI/SCTE 77 Tier 15 test method using the test load of 22,500 pounds (minimum) in place of the design load during testing. In addition, the Contractor shall provide a Manufacturer Certificate of Compliance for each non-concrete junction box installed.

**9-29.2(5)D Heavy-Duty Boxes and Vaults**

Heavy-Duty Junction Boxes, Cable Vaults, and Pull Boxes shall be load tested to 46,000 pounds. The test load shall be applied vertically through a 10 by 20 by 1-inch steel plate centered on the lid with an orientation both on the long axis and the short axis of the junction box. The test load shall be applied and released ten times on each axis. The deflection at the test load and released state shall be recorded for each interval. At each interval the test box shall be inspected for lid deformation, failure of the lid or frame welds, vertical and horizontal displacement of the lid frame, cracks, and concrete spalling. After the twentieth loading interval the test shall be terminated with a 60,000 pound load being applied vertically through the steel plate centered on the lid and with the long edge of steel plate orientated parallel to the long axis of the box.

Heavy-Duty Junction Boxes will be considered to have withstood the 46,000 pound test if none of the following conditions are exhibited:

- 1. Permanent deformation of the lid or any impairment to the function of the lid.
- 2. Vertical or horizontal displacement of the lid frame.
- 3. Cracks wider than 0.012 inches that extend 12 inches or more.
- 4. Fracture or cracks passing through the entire thickness of the concrete.
- 5. Spalling of the concrete.

Heavy-Duty Junction Boxes will be considered to have withstood the 60,000 pound test if all of the following conditions are exhibited:

- 1. The lid is operational.
- 2. The lid is securely fastened.



3. The welds have not failed.
4. Permanent dishing or deformation of the lid is ¼ inch or less.
5. No buckling or collapse of the box.

### **9-29.2(1) Standard Duty and Heavy Duty Junction Boxes**

This section, including title, is revised to read:

#### **9-29.2(1) Junction Boxes**

For the purposes of this Specification concrete is defined as portland cement concrete and non-concrete is all others.

The Contractor shall provide shop drawings for all components, hardware, lid, frame, reinforcement, and box dimensions. The shop drawings shall be prepared by (or under the supervision of) a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural. Each sheet shall carry the following:

1. Professional Engineer's original signature, date of signature, original seal, and registration number. If a complete assembly drawing is included which references additional drawing numbers, including revision numbers for those drawings, then only the complete assembly drawing is required to be stamped.
2. The initials and dates of all participating design professionals.
3. Clear notation of all revisions including identification of who authorized the revision, who made the revision, and the date of the revision.

Design calculations shall carry on the cover page, the Professional Engineer's original signature, date of signature, original seal, and registration number.

For each type of junction box, or whenever there is a change to the junction box design, a proof test, as defined in this Specification, shall be performed and new shop drawings submitted.

#### **9-29.2(1)A Standard Duty Junction Boxes**

This section is revised to read:

Standard Duty Junction Boxes are defined as Type 1, 2 and 8 junction boxes and shall have a minimum load rating of 22,500 pounds and be tested in accordance with Section 9-29.2(5). A complete Type 8 Junction Box includes the spread footing shown in the Standard Plans. All Standard Duty Junction Boxes placed in sidewalks, walkways, and shared use paths shall have slip resistant surfaces. Non-slip lids and frames shall be hot dip galvanized in accordance with AASHTO M111.

##### **9-29.2(1)A1 Concrete Junction Boxes**

The Standard Duty Concrete Junction Box steel frame, lid support, and lid shall be painted with a black paint containing rust inhibitors or painted with a shop applied, inorganic zinc primer in accordance with Section 6-07.3, or hot-dip galvanized in accordance with AASHTO M 111.

Concrete used in Standard Duty Junction Boxes shall have a minimum compressive strength of 6,000 psi when reinforced with a welded wire hoop, or 4,000 psi when reinforced with welded wire fabric or fiber reinforcement. The frame shall be anchored to the box by welding headed studs  $\frac{3}{8}$  by 3 inches long, as specified in Section 9-06.15, to the frame. The wire fabric shall be attached to the studs and frame with standard tie practices. The box shall contain ten studs located near the centerline of the frame and box wall. The studs shall be placed one anchor in each corner, one at the middle of each width and two equally spaced on each length of the box.

Materials for Type 1, 2, and 8 Concrete Junction Boxes shall conform to the following:

Materials	Requirement
Concrete	<a href="#">Section 6-02</a>
Reinforcing Steel	<a href="#">Section 9-07</a>
Fiber Reinforcing	ASTM C1116, Type III
Lid	ASTM A786 diamond plate steel
Slip Resistant Lid	ASTM A36 steel
Frame	ASTM A786 diamond plate steel or ASTM A36 steel
Slip Resistant Frame	ASTM A36 steel
Lid Support	ASTM A36 steel, or ASTM A1011 SS Grade 36 (or higher)
Handle & Handle support	ASTM A36 steel, or ASTM A1011 CS (Any Grade) or SS (Any Grade)
Anchors (studs)	<a href="#">Section 9-06.15</a>
Bolts, Studs, Nuts, Washers	ASTM F593 or A193, Type 304 or 316, or Stainless Steel grade 302, 304, or 316 steel in accordance with approved shop drawing
Locking and Latching Mechanism Hardware and Bolts	In accordance with approved shop drawings

#### **9-29.2(1)A2 Non-Concrete Junction Boxes**

Material for the non-concrete junction boxes shall be of a quality that will provide for a similar life expectancy as portland cement concrete in a direct burial application.

Type 1, 2, and 8 non-concrete junction boxes shall have a Design Load of 22,500 pounds and shall be tested in accordance with Section 9-29.2(5).

Non-concrete junction boxes shall be gray in color and have an open bottom design with approximately the same inside dimensions, and present a load to the bearing surface that is less than or equal to the loading presented by the concrete junction boxes shown in the Standard Plans. Non-concrete junction box lids shall include a pull slot and embedded 6 by 6 by  $\frac{1}{4}$ -inch steel plate, and shall be secured with two  $\frac{1}{2}$  inch stainless steel Penta-head bolts recessed into the cover. The tapped holes for the securing bolts shall extend completely through the box to prevent accumulation of debris. Bolts shall conform to ASTM F593, stainless steel.

### **9-29.2(1)B Heavy-Duty Junction Boxes**

The first paragraph is revised to read:

Heavy-Duty Junction Boxes are defined as Type 4, 5, and 6 junction boxes and shall be concrete and have a minimum vertical load rating of 46,000 pounds without permanent deformation and 60,000 pounds without failure when tested in accordance with Section 9-29.2(5).

### **9-29.2(1)C Testing Requirements**

This section is deleted in its entirety.

### **9-29.2(2) Small Cable Vaults, Standard Duty Cable Vaults, Standard Duty Pull Boxes, and Heavy Duty Pull Boxes**

This section, including title, is revised to read:

#### **9-29.2(2) Cable Vaults and Pull Boxes**

Cable Vaults and Pull Boxes shall be constructed as a concrete box and as a concrete lid. The lids for Cable Vaults and Pull Boxes shall be interchangeable and both shall fit the same box as shown in the Standard Plans.

The Contractor shall provide shop drawings for all components, including concrete box, Cast Iron Ring, Ductile Iron Lid, Steel Rings, and Lid. In addition, the shop drawings shall show placement of reinforcing steel, knock outs, and any other appurtenances. The shop drawing shall be prepared by or under the direct supervision of a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural. Each sheet shall carry the following:

1. Professional Engineer's original signature, date of signature, original seal, and registration number. If a complete assembly drawing is included which references additional drawing numbers, including revision numbers for those drawings, then only the complete assembly drawing is required to be stamped.
2. The initials and dates of all participating design professionals.
3. Clear notation of all revisions including identification of who authorized the revision, who made the revision, and the date of the revision.

Design calculations shall carry on the cover page, the Professional Engineer's original signature, date of signature, original seal, and registration number.

For each type of box or whenever there is a change to the Cable Vault or Pull box design, a proof test, as defined in this Specification, shall be performed and new shop drawings submitted.

### **9-29.2(2)A Small Cable Vaults, Standard Duty Cable Vaults, and Standard Duty Pull Boxes**

This section's title is revised to read:

#### **9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes**

The first paragraph is revised to read:

Standard Duty Cable Vaults and Pull Boxes shall be concrete and have a minimum load rating of 22,500 pounds and be tested in accordance with Section 9-29.2(5). For the purposes of this Section, Small Cable Vaults are considered a type of Standard Duty Cable Vault.

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

Concrete for Standard Duty Cable Vaults and Pull Boxes shall have a minimum compressive strength of 4,000 psi.

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

All Standard Duty Cable Vaults and Pull Boxes placed in sidewalks, walkways, and shared-use paths shall have slip-resistant surfaces.

The fourth paragraph (up until the colon) is revised to read:

Materials for Standard Duty Cable Vaults and Pull Boxes shall conform to the following:

### **9-29.2(2)B Heavy-Duty Cable Vaults and Pull Boxes**

The first paragraph is revised to read:

Heavy-Duty Cable Vaults and Pull Boxes shall be constructed of concrete having a minimum compressive strength of 4,000 psi, and have a minimum vertical load rating of 46,000 pounds without permanent deformation and 60,000 pounds without failure when tested in accordance with Section 9-29.2(5).

### **9-29.2(3) Structure Mounted Junction Boxes**

The first and second paragraphs are revised to read:

Surface mounted junction boxes and concrete embedded junction boxes installed in cast-in-place structures shall be stainless steel NEMA 4X.

Concrete embedded junction boxes installed in structures constructed by slip forming shall be stainless steel NEMA 3R and shall be adjustable for depth, with depth adjustment bolts, which are accessible from the front face of the junction box with the lid installed.

### **9-29.3(1) Fiber Optic Cable**

This section is revised to read:

All fiber optic cables shall be single mode fiber optic cables unless otherwise specified in the Contract. All fiber optic cables shall meet the following requirements:

1. Compliance with the current version of ANSI/ICEA S-87-640. A product data specification sheet clearly identifying compliance or a separate letter from manufacturer to state compliance shall be provided.
2. Cables shall be gel free, loose tube, low water peak, and all dielectric with no metallic component.

3. Cables shall not be armored unless specified in the Contract.
4. Cables shall be approved for mid-span entries and be rated by the manufacturer for outside plant (OSP) use, placement in underground ducts, and aerial installations.
5. Fiber counts shall be as specified in the Contract.
6. Fibers and buffer tubes shall be color coded in accordance with the current version of EIA/TIA-598.
7. Fibers shall not have any factory splices.
8. Outer Jacket shall be Type M (Medium Density Polyethylene). Outer jacket shall be free from holes, splits, blisters, or other imperfections and must be smooth and concentric as is consistent with the best commercial practice.
9. A minimum of one (1) rip cord is required for each cable.
10. Cable markings shall meet the following additional requirements:
  - a. Color shall be white or silver.
  - b. Markings shall be approximately 3 millimeters (118 mils) in height, and dimensioned and spaced to produce good legibility.
  - c. Markings shall include the manufacturer's name, year of manufacture, the number of fibers, the words "OPTICAL CABLE", and sequential length marks.
  - d. Sequential length markings shall be in meters or feet, spaced at intervals not more than 1 meter or 2 feet apart, respectively.
  - e. The actual cable length shall not be shorter than the cable length marking. The actual cable length may be up to 1% longer than the cable length marking.
  - f. Cables with initial markings that do not meet these requirements will not be accepted and may not be re-marked.
11. Short term tensile strength shall be a minimum of 600 pounds (1bs). Long term tensile strength shall be a minimum of 180 pounds (1bs). Tensile strength shall be achieved using a fiberglass reinforced plastic (FRP) central member and / or aramid yarns.
12. All cables shall be new and free of material or manufacturing defects and dimensional non-uniformity that would:
  - a. Interfere with the cable installation using accepted cable installation practices;
  - b. Degrade the transmission performance or environmental resistance after installation;

- c. Inhibit proper connection to interfacing elements;
  - d. Otherwise yield an inferior product.
13. The fiber optic cables shall be shipped on reels with a drum diameter at least 20 times the diameter of the cable, in order to prevent damage to the cable. The reels shall be substantial and constructed so as to prevent damage during shipment and handling. Reels shall be labeled with the same information required for the cable markings, with the exception that the total length of cable shall be marked instead of incremental length marks. Reels shall also be labeled with the type of cable.

This section is supplemented with the following new subsection:

#### **9-29.3(1)B Multimode Optical Fibers**

Where multimode fiber optic cables are specified in the Contract, the optical fibers shall be one of the following types, as specified in the Contract:

- a. Type OM1, meeting the requirements of EIA/TIA 492-AAAA-A or ISO/IEC 11801. The fiber core diameter shall be 62.5  $\mu\text{m}$ .
- b. Type OM2, meeting the requirements of EIA/TIA 492-AAAB-A or ISO/IEC 11801. The fiber core diameter shall be 50  $\mu\text{m}$ .

All multimode optical fibers shall have a maximum attenuation of 3.0 dB/km at 850nm and 1.0 dB/km at 1300nm. Completed cable assemblies shall be rated for 1000BaseLX Ethernet communications.

#### **9-29.3(1)A Singlemode Fiber Optic Cable**

This section is revised to read:

Single-Mode optical fibers shall be EIA/TIA 492-CAAB or ISO/IEC 11801 Type OS2, low water peak zero dispersion fibers, meeting the requirements of ITU-T G.652.D.

#### **9-29.6 Light and Signal Standards**

The third paragraph is revised to read:

Light standard, signal standards, slip base hardware and foundation hardware shall be hot dip galvanized in accordance with AASHTO M 111 and AASHTO M 232. Where colored standards are required, standards shall be powder-coated after galvanizing in accordance with Section 6-07.3(11). The standard color shall be as specified in the Contract.

#### **9-29.6(1) Steel Light and Signal Standards**

In the first paragraph, "ASTM A325" is revised to read "ASTM F3125 Grade A325".

#### **9-29.6(2) Slip Base Hardware**

In this section, "ASTM A325" is revised to read "ASTM F3125 Grade A325".

### 9-29.7(2) Fused Quick-Disconnect Kits

The table is supplemented with the following new row:

LED*	10A	10A	20A
------	-----	-----	-----

The following footnote is inserted after the table:

- \* Applies to all LED luminaires, regardless of wattage. Fuses for LED luminaires shall be slow blow.

### 9-29.10 Luminaires

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

All luminaires shall be provided with markers for positive identification of light source type and wattage in accordance with ANSI C136.15-2011, with the exception that LED luminaires shall be labeled with the wattage of their conventional luminaire equivalents – the text “LED” is optional.

The table in the fourth paragraph is revised to read:

Conventional Lamp Wattage	Conventional Wattage Legend	Equivalent LED Legend
70	7	7E
100	10	10E
150	15	15E
175	17	17E
200	20	20E
250	25	25E
310	31	31E
400	40	40E
700	70	70E
750	75	75E
1,000	X1	X1E

### 9-29.25 Amplifier, Transformer, and Terminal Cabinets

Item 2C is revised to read:

- c. Transformer up to 12.5 KVA      20"    48"    24"  
Transformer 12.6 to 35 KVA      30"    60"    32"

The following new sentence is inserted before the last sentence of item number 10:

There shall be an isolation breaker on the input (line) side of the transformer, and a breaker array on the output (load) side.

9-35.AP9

## Section 9-35, Temporary Traffic Control Materials August 1, 2016

### 9-35.12 Transportable Attenuator

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

The transportable attenuator shall be mounted on, or attached to, a host vehicle that complies with the manufacturer’s recommended weight range.

## Special Provisions





## INTRODUCTION TO THE SPECIAL PROVISIONS

*(August 14, 2013 APWA GSP)*

The work on this project shall be accomplished in accordance with the Standard Specifications for Road, Bridge and Municipal Construction, 20\*\*\*16 \*\*\* 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 the Amendments to the Standard Specifications and 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 project-specific Special Provisions are not labeled as such. 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)*

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/APWA, current edition

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

*(\*\*\*\*\*)*

Revised General Special Provisions and project-specific Special Provisions are designated by "*(\*\*\*\*\*)*".

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## DIVISION 1

### GENERAL REQUIREMENTS

#### 1-01 DEFINITIONS AND TERMS

##### 1-01.3 Definitions (January 4, 2016 APWA GSP)

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

#### **Dates**

##### ***Bid Opening Date***

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

##### ***Award Date***

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

##### ***Contract Execution Date***

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

##### ***Notice to Proceed Date***

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

##### ***Substantial Completion Date***

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

##### ***Physical Completion Date***

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

##### ***Completion Date***

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

##### ***Final Acceptance Date***

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

Supplement this Section with the following:

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

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

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

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

**Additive**

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

**Alternate**

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

**Business Day**

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

**Contract Bond**

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

**Contract Documents**

See definition for “Contract”.

**Contract Time**

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

**Notice of Award**

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

**Notice to Proceed**

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

**Traffic**

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

**1-02 BID PROCEDURES AND CONDITIONS**

**1-02.1 Prequalification of Bidders**

Delete this section and replace it with the following:

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

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

Add the following new section:

*(\*\*\*\*\*)*  
**1-02.1(1) Supplemental Qualifications Criteria**

In addition, the Contracting Agency has established Contracting Agency-specific and/or project-specific supplemental criteria, in accordance with RCW 39.04.350(2), for determining Bidder responsibility, including the basis for evaluation and the deadline for appealing a determination that a Bidder is not responsible. These criteria are contained in the Bid Documents for the Eagle I Roadway Improvements, Invitation to Bid, Form B – Project Approach and Schedule, Form C – Safety Plan (pages RFP 17-19).

**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:

<b>To Prime Contractor</b>	<b>No. of Sets</b>	<b>Basis of Distribution</b>
Reduced plans (11"x 17")	3	Furnished automatically upon award.
Contract Provisions	6	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	3	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.

**1-02.6 Preparation of Proposal**  
(June 20, 2017 APWA GSP)

Supplement the second paragraph with the following:

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

Delete the fourth paragraph and replace it with the following:

The Bidder shall submit with the Bid a completed Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification, when required by the Special Provisions. For each and every UDBE firm listed on the Bidder's completed Underutilized Disadvantaged Business Enterprise Utilization Certification, the Bidder shall submit written confirmation from that UDBE firm that the UDBE is in agreement with the UDBE participation commitment that the Bidder has made in the Bidder's completed Underutilized Disadvantaged Business Enterprise Utilization Certification. WSDOT Form 422 031U (Underutilized Disadvantaged Business Enterprise Written Confirmation Document) is to be used for this purpose. Bidder must submit good faith effort documentation with the Underutilized Disadvantaged Business Enterprise Utilization Certification only in the event the bidder's efforts to solicit sufficient UDBE participation have been unsuccessful. Directions for delivery of the Underutilized Disadvantaged Business Enterprise Written Confirmation Documents and Underutilized Disadvantaged Business Enterprise Good Faith Effort documentation are included in Section 1-02.9

Delete the last paragraph, and replace it with the following:

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

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

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

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

**1-02.7 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.

**1-02.9 Delivery of Proposal**  
(June 20, 2017 APWA GSP, Option A)

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.

If the project has FHWA funding and requires UDBE Written Confirmation Document(s) or Good Faith Effort (GFE) Documentation, then to be considered responsive, the Bidder shall submit Written Confirmation Documentation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification, form 272-056U, as required by Section 1-02.6. The UDBE Written Confirmation Document(s) and/or GFE (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The document(s) shall be received no later than 24 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) must be submitted in a sealed envelope labeled the same as for the Proposal, with "UDBE Supplemental Information" added. All other information required to be submitted with the Bid Proposal must be submitted with the Bid Proposal itself, at the time stated in the Call for Bids.

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 UDBE confirmations or GFE documentation that is received after the time specified above, or received in a location other than that specified in the Call for Bids.

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

Delete this section and replace it with the following:

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



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

#### **1-02.14 Disqualification of Bidders**

*(March 8, 2013 APWA GSP, Option C)*

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet the following Supplemental Criteria:

##### **1. Delinquent State Taxes**

- A. Criterion: The Bidder shall not owe delinquent taxes to the Washington State Department of Revenue without a payment plan approved by the Department of Revenue.
- B. Documentation: The Bidder shall not be listed on the Washington State Department of Revenue's "Delinquent Taxpayer List" website: <http://dor.wa.gov/content/fileandpaytaxes/latefiling/dtlwest.aspx> , or if they are so listed, they must submit a written payment plan approved by the Department of Revenue, to the Contracting Agency by the deadline listed below.

##### **2. Federal Debarment**

- A. Criterion: The Bidder shall not currently be debarred or suspended by the Federal government.
- B. Documentation: The Bidder shall not be listed as having an "active exclusion" on the U.S. government's "System for Award Management" database (www.sam.gov).

##### **3. Subcontractor Responsibility**

- A. Criterion: The Bidder's standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure which it utilizes to validate the responsibility of each of its subcontractors. The Bidder's subcontract form shall also include a requirement that

each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also “responsible” subcontractors as defined by RCW 39.06.020.

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

4. **Prevailing Wages**

- A. Criterion: The Bidder shall not have a record of prevailing wage violations as determined by WA Labor & Industries in the five years prior to the bid submittal date, that demonstrates a pattern of failing to pay workers prevailing wages, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
- B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of all prevailing wage violations in the five years prior to the bid submittal date, along with an explanation of each violation and how it was resolved. The Contracting Agency will evaluate these explanations and the resolution of each complaint to determine whether the violation demonstrate a pattern of failing to pay its workers prevailing wages as required.

5. **Claims Against Retainage and Bonds**

- A. Criterion: The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects in the three years prior to the bid submittal date, that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
- B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of the public works projects completed in the three years prior to the bid submittal date that have had claims against retainage and bonds and include for each project the following information:
- Name of project
  - The owner and contact information for the owner;
  - A list of claims filed against the retainage and/or payment bond for any of the projects listed;
  - A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

## 6. **Public Bidding Crime**

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

## 7. **Termination for Cause / Termination for Default**

- A. **Criterion:** The Bidder shall not have had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
- B. **Documentation:** The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date; or if Bidder was terminated, describe the circumstances.

## 8. **Lawsuits**

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

As evidence that the Bidder meets the mandatory and supplemental responsibility criteria stated above, the apparent two lowest Bidders must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets all of the mandatory and supplemental criteria together with supporting documentation including but not limited to that detailed above (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with all mandatory and supplemental responsibility criteria. The Contracting Agency reserves the right to request such documentation from other Bidders as well, and to request further documentation as needed to assess Bidder responsibility. The Contracting Agency also

reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder's compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Contracting Agency may (but is not required to) consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

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

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

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

**1-02.15 Pre-Award Information**  
*(August 14, 2013 APWA GSP)*

Revise this section to read:

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

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,

4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

## **1-03                    AWARD AND EXECUTION OF CONTRACT**

### **1-03.3                    Execution of Contract** *(October 1, 2005 APWA GSP)*

Revise this section to read:

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

Within \*\*\*10 \*\*\* calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

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

If the bidder experiences circumstances beyond their control that prevents return of the Contract Documents within the calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of \*\*\* 30 \*\*\* additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

### **1-03.4                    Contract Bond**

(\*\*\*\*\*)

Revise the first paragraph to read:

The successful bidder shall provide an executed contract bond for the full contract amount. This contract bond shall:

1. Be on a form approved by the Contractor's Surety and approved by the Contracting Agency;
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. Be conditioned upon the faithful performance of the contract by the Contractor within the prescribed time;
4. Guarantee that the surety shall indemnify, defend, and protect the Contracting Agency against any claim of direct or indirect loss resulting from the failure:
  - a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform the contract, 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;
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 must be signed by the president or vice-president, unless accompanied by written proof of the authority of the individual signing the bond to bind the corporation (i.e., corporate resolution, power of attorney or a letter to such effect by the president or vice-president).

#### **1-04 SCOPE OF THE WORK**

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

*(March 13, 2012 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. Amendments to the Standard Specifications,
6. Standard Specifications,
7. Contracting Agency's Standard Plans or Details (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

##### **1-04.4(2) Value Engineering Change Proposal (VECP)**

*(\*\*\*\*\*)*

Section 1-04.4(2) is deleted in its entirety.

**1-05 CONTROL OF WORK**

**1-05.4 Conformity With and Deviations From Plans and Stakes**

Supplement this section with the following:

**Roadway and Utility Surveys**

*(July 23, 2015 APWA GSP, Option 1)*

The Engineer shall furnish to the Contractor one time only all principal lines, grades, and measurements the Engineer deems necessary for completion of the work. These shall generally consist of one initial set of:

1. Slope stakes for establishing grading;
2. Curb grade stakes;
3. Centerline finish grade stakes for pavement sections wider than 25 feet; and
4. Offset points to establish line and grade for underground utilities such as water, sewers, and storm drains.

On alley construction projects with minor grade changes, the Engineer shall provide only offset hubs on one side of the alley to establish the alignment and grade.

Supplement this section with the following:

**Bridge and Structure Surveys**

*(July 23, 2015 APWA GSP, Option 2)*

For all structural work such as bridges and retaining walls, the Contractor shall retain as a part of Contractor's organization an experienced team of surveyors.

The Contractor shall provide all surveys required to complete the structure, except the following primary survey control which will be provided by the Engineer:

1. Centerline or offsets to centerline of the structure.
2. Stations of abutments and pier centerlines.
3. A sufficient number of bench marks for levels to enable the Contractor to set grades at reasonably short distances.
4. Monuments and control points as shown in the Plans.

The Contractor shall establish all secondary survey controls, both horizontal and vertical, as necessary to assure proper placement of all project elements based on the primary control points provided by the Engineer. Survey work shall be within the following tolerances:

Stationing	± 0.01 foot
Alignment	± 0.01 foot (between successive points)

Superstructure Elevations	± 0.01 foot (from plan elevations)
Substructure Elevations	± 0.05 foot (from plan elevations)

During the progress of the work, the Contractor shall make available to the Engineer all field books including survey information, footing elevations, cross sections and quantities.

The Contractor shall be fully responsible for the close coordination of field locations and measurements with appropriate dimensions of structural members being fabricated.

**1-05.11 Final Inspection**  
(\*\*\*\*\*)

Delete this section and replace it with the following section and subsections:

**1-05.11 Final Inspections and Operational Testing**

**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.

**1-05.13 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**

*(March 25, 2009 APWA GSP)*

Revise the second paragraph to read:

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

**1-06 CONTROL OF MATERIAL**

Section 1-06 is supplemented with the following:

**Buy America**

*(August 6, 2012 WSDOT GSP, Option 1A)*

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

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

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

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

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

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

The following are considered to be steel manufacturing processes:

1. Production of steel by any of the following processes:
  - a. Open hearth furnace.
  - b. Basic oxygen.
  - c. Electric furnace.
  - d. Direct reduction.
2. Rolling, heat treating, and any other similar processing.
3. Fabrication of the products.
  - a. Spinning wire into cable or strand.
  - b. Corrugating and rolling into culverts.
  - c. Shop fabrication.

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

**1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

**1-07.2 State Taxes**

(\*\*\*\*\*)

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

The Chehalis Tribe is exempt from Washington State Sales and Business and Occupation Tax for services or items delivered on the Reservation (RCW 82.08.0254 and WAC 458-20-192). In the event that work is performed and services provided outside the Reservation boundaries, the Contractor remains liable for all applicable local, state, and federal taxes.

**1-07.11 REQUIREMENTS FOR NONDISCRIMINATION**

Section 1-07.11 is supplemented with the following:

*(August 5, 2013 WSDOT GSP, Option 1)*

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

1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.
2. The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:

Women - Statewide

<u>Timetable</u>	<u>Goal</u>
Until further notice	6.9%

Minorities - by Standard Metropolitan Statistical Area (SMSA)

Spokane, WA:

SMSA Counties:

Spokane, WA	2.8
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WA Spokane.

Non-SMSA Counties	3.0
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WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.	
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Richland, WA	
SMSA Counties:	
Richland Kennewick, WA	5.4
WA Benton; WA Franklin.	
Non-SMSA Counties	3.6
WA Walla Walla.	
Yakima, WA:	
SMSA Counties:	
Yakima, WA	9.7
WA Yakima.	
Non-SMSA Counties	7.2
WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.	
Seattle, WA:	
SMSA Counties:	
Seattle Everett, WA	7.2
WA King; WA Snohomish.	
Tacoma, WA	6.2
WA Pierce.	
Non-SMSA Counties	6.1
WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.	
Portland, OR:	
SMSA Counties:	
Portland, OR-WA	4.5
WA Clark.	
Non-SMSA Counties	3.8
WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.	

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

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

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

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

Additional information may be found at the U.S. Department of Labor website:  
<http://www.dol.gov/ofccp/TAguides/ctaguide.htm>

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

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

1. As used in these specifications:
  - a. Covered Area means the geographical area described in the solicitation from which this contract resulted;
  - b. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
  - c. Employer Identification Number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941;
  - d. Minority includes:
    - (1) Black, a person having origins in any of the Black Racial Groups of Africa.
    - (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto Rican, Cuban, Central American, South American, or other Spanish origin.
    - (3) Asian or Pacific Islander, a person having origins in any of the original peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and Samoa.
    - (4) American Indian or Alaskan Native, a person having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith effort to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its action. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
  - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are

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

- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunity and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the U.S. Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
  - i. Direct its recruitment efforts, both oral and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
  - j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
  - k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
  - l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
  - m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
  - n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
  - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
  - p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of the obligations under 7a through 7p of this Special Provision provided that the Contractor actively participates in the group, makes every effort to assure that the group



has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female work-force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrate the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include, for each employee, their name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, the Contractors will not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
16. Additional assistance for Federal Construction Contractors on contracts administered by Washington State Department of Transportation or by Local Agencies may be found at:

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

#### **1-07.12 FEDERAL AGENCY INSPECTION**

Section 1-07.12 is supplemented with the following:

***(August 1, 2011 WSDOT GSP, Option 2)***  
**Indian Preference and Tribal Ordinances**

This project is located on the \*\*\* Chehalis Reservation \*\*\*. It is the Contractor's responsibility to contact the person and/or office listed in this special provision to determine whether any tribal laws or taxes apply. If the tribal laws and taxes do apply, the Contractor shall comply with them in accordance with Section 1-07.1. For informational purposes only, the Work on this project that falls within Tribal Lands is shown on the Summary of Quantities in Group(s) \*\*\* ALL \*\*\*.

Tribal Employment Rights Ordinances (TEROs), may utilize a variety of tools to encourage Indian employment. These tools may include, but are not limited to, TERO fees, Indian hiring preference, Indian-owned business subcontracting preference and/or an Indian training requirement. Other requirements may be a Tribal business license, a required compliance plan and/or employee registration requirements. Every tribe is different and each may be willing to work cooperatively with the Contractor to develop a strategy that works for both parties. For specific details, the Contractor should contact \*\*\* Jesse Gleason, Project Representative, [jgleason@chehalis tribe.org](mailto:jgleason@chehalis tribe.org), Chehalis Tribe, 6 Niederman Road, PO Box 536, Oakville, WA, 98568 \*\*\*.

The state recognizes the sovereign authority of the tribe supports the tribe's efforts to enforce its rightful and legal ordinances and expects the Contractor to comply and cooperate with the tribe. The costs related to such compliance shall be borne solely by the Contractor, who is advised to contact the tribal representative listed above, prior to submitting a bid, to assess the impact of compliance on the project.

Although Indian preference cannot be compelled or mandated by the Contracting Agency, there is no limitation whereby voluntary Contractor or Subcontractor initiated preferences are given, if otherwise lawful. 41 CFR 60-1.5(a)7 provides as follows:

Work on or near Indian reservations --- It shall not be a violation of the equal opportunity clause for a construction or non-construction Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation in connection with employment opportunities on or near an Indian reservation. The use of the word *near* would include all that area where a person seeking employment could reasonably be expected to commute to and from in the course of a work day. Contractors or Subcontractors extending such a preference shall not, however, discriminate among Indians on the basis of religion, sex, or tribal affiliation, and the use of such a preference shall not excuse a Contractor from complying with the other requirements as contained in the August 25, 1981 Department of Labor, Office of Federal Contract Compliance Programs, Government Contractors Affirmative Actions Requirements.

### **1-07.18 Public Liability and Property Damage Insurance**

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

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

##### **1-07.18(1) General Requirements**

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.
- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.
- D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the

Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.

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

#### **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
- Parametrix, 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 not satisfy these requirements – actual endorsements must be submitted.

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

#### **1-07.18(5) Coverages and Limits**

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

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

### **1-07.18(5)A Commercial General Liability**

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

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

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

Such policy must provide the following minimum limits:

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

### **1-07.18(5)B Automobile Liability**

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

Such policy must provide the following minimum limit:

\$1,000,000	Combined single limit each accident
-------------	-------------------------------------

### **1-07.18(5)C Workers' Compensation**

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

## **1-07.23 Public Convenience and Safety**

### **1-07.23(1) Construction Under Traffic**

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

*(January 2, 2012 WSDOT GSP Option 2)*

#### **Work Zone Clear Zone**

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

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

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

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

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

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

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

\* or 2-feet beyond the outside edge of sidewalk

**Minimum Work Zone Clear Zone Distance**

*(January 5, 2015 WSDOT GSP Option 5)*

Lane closures are subject to the following restrictions:

\*\*\* NONE, South Bank Road is permitted to have intermittent lane closures according to pending review and approval of Contractor’s traffic control plan by the Contracting Agency and Gray’s Harbor County \*\*\*

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours.

Lane closures are not allowed on any of the following:

1. A holiday,
2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.
3. After \*\*\* 3:00 p.m. \*\*\* on the day prior to a holiday or holiday weekend, and
4. Before \*\*\* 8:00 a.m. \*\*\* on the day after the holiday or holiday weekend.

## **1-08 PROSECUTION AND PROGRESS**

Add the following new section:

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

Add the following new section:

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

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

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

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

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

Add the following new section:

**1-08.0(2) Hours of Work** **New Section**  
(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 \*\*\*2 working days\*\*\* prior to the day(s) the Contractor is requesting to change the hours.

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

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

**1-08.3 Progress Schedule**

**1-08.3(2) Progress Schedule Types**

**1-08.3(2)B Type B Progress Schedule**

*(March 13, 2012 APWA GSP)*

Revise the first paragraph to read:

The Contractor shall submit a preliminary Type B Progress Schedule at or prior to the preconstruction conference. The preliminary Type B Progress Schedule shall comply with all of these requirements and the requirements of Section 1-08.3(1), except that it may be limited to only those activities occurring within the first 60-working days of the project.

Revise the first sentence of the second paragraph to read:

The Contractor shall submit \*\*\* 2 \*\*\* copies of a Type B Progress Schedule depicting the entire project no later than 21-calendar days after the preconstruction conference.

#### **1-08.4 Prosecution of Work**

Delete this section and replace it with the following:

#### **1-08.4 Notice to Proceed and Prosecution of Work** (July 23, 2015 APWA GSP)

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

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

#### **1-08.5 Time for Completion**

(xxxxxxx)

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the 5<sup>th</sup> 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. This project shall be completed within the agreed Contract working days.

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor elects 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 (Federal-aid Projects)
  - b. Material Acceptance Certification Documents
  - c. Annual Report of Amounts Paid as MBE/WBE Participants or Quarterly Report of Amounts Credited as DBE Participation, as required by the Contract Provisions.
  - d. Final Contract Voucher Certification
  - e. Property owner releases per Section 1-07.24

## **1-09 MEASUREMENT AND PAYMENT**

### **1-09.9 Payments**

*(March 13, 2012 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.

## **1-10 TEMPORARY TRAFFIC CONTROL**

### **1-10.2 Traffic Control Management**

#### **1-10.2(1) General**

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

*(January 3, 2017 WSDOT GSP Option 1)*

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

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

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

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

**1-10.4 Measurement**

**1.10.4(1) Lump Sum Bid for Project (No Unit Items)**

Section 1-10.4(1) is supplemented with the following:

*(August 2, 2004 WSDOT GSP, Option 1)*

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

**END OF DIVISION 1**

## DIVISION 8

### MISCELLANEOUS CONSTRUCTION

#### 8-04 CURBS, GUTTERS, AND SPILLWAYS

##### 8-04.4 Measurement

Section 8-04.4 is supplemented with the following:

(\*\*\*\*\*)

Measurement for "Cement Conc. Scupper" shall be measured per each.

##### 8-04.5 Payment

Section 8-04.5 is supplemented with the following:

(\*\*\*\*\*)

"Cement Conc. Scupper" per each

Payment for "Cement Concrete Scupper" per each shall be full payment for all costs for the specified work as shown on the detail provided in the contract plans.

#### 8-06 CEMENT CONCRETE DRIVEWAY ENTRANCES

##### 8-06.4 Measurement

Section 8-06.4 is supplemented with the following:

"Reinforced Cement Conc. Driveway" will be measured by the square yard for the completed area.

##### 8-06.5 Payment

Section 8-06.5 is supplemented with the following:

"Reinforced Cement Conc. Driveway", per square yard.

The unit Contract price per square yard for "Reinforced Cement Conc. Driveway" shall be full payment for all costs for preparing subgrade, furnishing and installing steel mesh, and placing and finishing Class 4000 concrete in accordance with the contract plans and details.

Add the following new section:

(\*\*\*\*\*)

#### 8-30 BOLLARDS

**NEW SECTION**

##### 8-30.1 Description

This work shall also consist of furnishing and installing Type 2 steel bollards in accordance with the Plans and these Specifications.

### **8-30.2 Materials**

Materials shall meet the requirements as shown on the Plans.

Footings shall be constructed using concrete Class 3000.

Color of paint for the bollard shall be powder coated white.

All steel parts shall be hot-dip galvanized after fabrication in accordance with AASHTO M111.

Reflective tape shall be one of the following or an approved equal:

- Scotchlite High Intensity Grade Series 2870.
- Reflexite AP-1000.
- Scotchlite Diamond Grade LDP Series 3970.
- T-6500 High Intensity (Type IV).

### **8-30.3 Construction Requirements**

Bollards shall be constructed in accordance to the details shown on the Plans.

Bollards shall not vary more than 1/2 inch in 30 inches from a vertical plane.

The final locations of bollards shall be approved by the Engineer prior to placement.

### **8-30.4 Measurement**

Measurement for bollards will be per each bollard furnished and installed.

### **8-30.5 Payment**

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

“Type 2 Bollard”, per each.

The unit contract price per each for “Type 2 Bollard” shall be full pay for all labor, equipment, and materials necessary, including but not limited to excavation, paint, concrete foundation, placement, hardware, and disposal of excess soils and materials.

**END OF DIVISION 8**

# Appendix A

## Washington State Prevailing Wage Rates



**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: 07/24/2017

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Grays Harbor	<a href="#">Asbestos Abatement Workers</a>	Journey Level	\$45.25	<u>5D</u>	<u>1H</u>	
Grays Harbor	<a href="#">Boilermakers</a>	Journey Level	\$64.54	<u>5N</u>	<u>1C</u>	
Grays Harbor	<a href="#">Brick Mason</a>	Journey Level	\$54.32	<u>5A</u>	<u>1M</u>	
Grays Harbor	<a href="#">Brick Mason</a>	Pointer-Caulker-Cleaner	\$54.32	<u>5A</u>	<u>1M</u>	
Grays Harbor	<a href="#">Building Service Employees</a>	Janitor	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Building Service Employees</a>	Shampooer	\$11.25		<u>1</u>	
Grays Harbor	<a href="#">Building Service Employees</a>	Waxer	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Building Service Employees</a>	Window Cleaner	\$13.22		<u>1</u>	
Grays Harbor	<a href="#">Cabinet Makers (In Shop)</a>	Journey Level	\$13.12		<u>1</u>	
Grays Harbor	<a href="#">Carpenters</a>	Acoustical Worker	\$55.51	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Carpenters</a>	Bridge, Dock And Wharf Carpenters	\$55.51	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Carpenters</a>	Carpenter	\$55.51	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Carpenters</a>	Carpenters on Stationary Tools	\$55.64	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Carpenters</a>	Creosoted Material	\$55.61	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Carpenters</a>	Floor Finisher	\$55.51	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Carpenters</a>	Floor Layer	\$55.51	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Carpenters</a>	Scaffold Erector	\$55.51	<u>5D</u>	<u>4C</u>	



Grays Harbor	<a href="#">Cement Masons</a>	Journey Level	\$55.56	<u>7A</u>	<u>1M</u>	
Grays Harbor	<a href="#">Divers &amp; Tenders</a>	Diver	\$108.77	<u>5D</u>	<u>4C</u>	<u>8A</u>
Grays Harbor	<a href="#">Divers &amp; Tenders</a>	Diver On Standby	\$66.05	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Divers &amp; Tenders</a>	Diver Tender	\$59.88	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Divers &amp; Tenders</a>	Surface Rcv & Rov Operator	\$59.88	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Divers &amp; Tenders</a>	Surface Rcv & Rov Operator Tender	\$55.76	<u>5A</u>	<u>4C</u>	
Grays Harbor	<a href="#">Dredge Workers</a>	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
Grays Harbor	<a href="#">Dredge Workers</a>	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
Grays Harbor	<a href="#">Dredge Workers</a>	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
Grays Harbor	<a href="#">Dredge Workers</a>	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
Grays Harbor	<a href="#">Dredge Workers</a>	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
Grays Harbor	<a href="#">Dredge Workers</a>	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
Grays Harbor	<a href="#">Dredge Workers</a>	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
Grays Harbor	<a href="#">Drywall Applicator</a>	Journey Level	\$55.51	<u>5D</u>	<u>1H</u>	
Grays Harbor	<a href="#">Drywall Tapers</a>	Journey Level	\$55.66	<u>5P</u>	<u>1E</u>	
Grays Harbor	<a href="#">Electrical Fixture Maintenance Workers</a>	Journey Level	\$61.24	<u>5C</u>	<u>1G</u>	
Grays Harbor	<a href="#">Electricians - Inside</a>	Cable Splicer	\$64.96	<u>5C</u>	<u>1G</u>	
Grays Harbor	<a href="#">Electricians - Inside</a>	Journey Level	\$61.24	<u>5C</u>	<u>1G</u>	
Grays Harbor	<a href="#">Electricians - Inside</a>	Lead Covered Cable Splicer	\$68.74	<u>5C</u>	<u>1G</u>	
Grays Harbor	<a href="#">Electricians - Inside</a>	Welder	\$64.99	<u>5C</u>	<u>1G</u>	
Grays Harbor	<a href="#">Electricians - Motor Shop</a>	Craftsman	\$15.37		<u>1</u>	
Grays Harbor	<a href="#">Electricians - Motor Shop</a>	Journey Level	\$14.69		<u>1</u>	
Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Cable Splicer	\$73.93	<u>5A</u>	<u>4D</u>	
Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Certified Line Welder	\$67.60	<u>5A</u>	<u>4D</u>	
Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Groundperson	\$45.49	<u>5A</u>	<u>4D</u>	
			\$67.60	<u>5A</u>	<u>4D</u>	

Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Heavy Line Equipment Operator				
Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Journey Level Lineperson	\$67.60	<u>5A</u>	<u>4D</u>	
Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Line Equipment Operator	\$57.02	<u>5A</u>	<u>4D</u>	
Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Pole Sprayer	\$67.60	<u>5A</u>	<u>4D</u>	
Grays Harbor	<a href="#">Electricians - Powerline Construction</a>	Powderperson	\$50.76	<u>5A</u>	<u>4D</u>	
Grays Harbor	<a href="#">Electronic Technicians</a>	Journey Level	\$27.49		<u>1</u>	
Grays Harbor	<a href="#">Elevator Constructors</a>	Mechanic	\$85.45	<u>7D</u>	<u>4A</u>	
Grays Harbor	<a href="#">Elevator Constructors</a>	Mechanic In Charge	\$92.35	<u>7D</u>	<u>4A</u>	
Grays Harbor	<a href="#">Fabricated Precast Concrete Products</a>	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>	
Grays Harbor	<a href="#">Fence Erectors</a>	Fence Erector	\$13.80		<u>1</u>	
Grays Harbor	<a href="#">Fence Erectors</a>	Fence Laborer	\$11.60		<u>1</u>	
Grays Harbor	<a href="#">Flaggers</a>	Journey Level	\$38.36	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Glaziers</a>	Journey Level	\$27.65	<u>5R</u>	<u>1Z</u>	
Grays Harbor	<a href="#">Heat &amp; Frost Insulators And Asbestos Workers</a>	Journeyman	\$65.68	<u>5J</u>	<u>4H</u>	
Grays Harbor	<a href="#">Heating Equipment Mechanics</a>	Journey Level	\$75.46	<u>7F</u>	<u>1E</u>	
Grays Harbor	<a href="#">Hod Carriers &amp; Mason Tenders</a>	Journey Level	\$46.66	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Industrial Power Vacuum Cleaner</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Inland Boatmen</a>	Boat Operator	\$59.86	<u>5B</u>	<u>1K</u>	
Grays Harbor	<a href="#">Inland Boatmen</a>	Cook	\$56.18	<u>5B</u>	<u>1K</u>	
Grays Harbor	<a href="#">Inland Boatmen</a>	Deckhand	\$56.18	<u>5B</u>	<u>1K</u>	
Grays Harbor	<a href="#">Inland Boatmen</a>	Deckhand Engineer	\$57.26	<u>5B</u>	<u>1K</u>	
Grays Harbor	<a href="#">Inland Boatmen</a>	Launch Operator	\$58.59	<u>5B</u>	<u>1K</u>	
Grays Harbor	<a href="#">Inland Boatmen</a>	Mate	\$58.59	<u>5B</u>	<u>1K</u>	
Grays Harbor	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Cleaner Operator, Foamer Operator	\$11.00		<u>1</u>	
Grays Harbor		Grout Truck Operator	\$11.48		<u>1</u>	

	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>				
Grays Harbor	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Head Operator	\$12.78		<u>1</u>
Grays Harbor	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Technician	\$11.00		<u>1</u>
Grays Harbor	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Tv Truck Operator	\$11.00		<u>1</u>
Grays Harbor	<a href="#">Insulation Applicators</a>	Journey Level	\$55.51	<u>5D</u>	<u>4C</u>
Grays Harbor	<a href="#">Ironworkers</a>	Journeyman	\$65.48	<u>7N</u>	<u>10</u>
Grays Harbor	<a href="#">Laborers</a>	Air, Gas Or Electric Vibrating Screed	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Airtrac Drill Operator	\$46.66	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Ballast Regular Machine	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Batch Weighman	\$38.36	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Brick Pavers	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Brush Cutter	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Brush Hog Feeder	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Burner	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Caisson Worker	\$46.66	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Carpenter Tender	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Caulker	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Cement Dumper-paving	\$46.09	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Cement Finisher Tender	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Change House Or Dry Shack	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Chipping Gun (under 30 Lbs.)	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Chipping Gun(30 Lbs. And Over)	\$46.09	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Choker Setter	\$45.25	<u>7A</u>	<u>3I</u>
Grays Harbor	<a href="#">Laborers</a>	Chuck Tender	\$45.25	<u>7A</u>	<u>3I</u>

Grays Harbor	<a href="#">Laborers</a>	Clary Power Spreader	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Clean-up Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Concrete Dumper/chute Operator	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Concrete Form Stripper	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Concrete Placement Crew	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Concrete Saw Operator/core Driller	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Crusher Feeder	\$38.36	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Curing Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Demolition: Wrecking & Moving (incl. Charred Material)	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Ditch Digger	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Diver	\$46.66	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Drill Operator (hydraulic, diamond)	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Dry Stack Walls	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Dump Person	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Epoxy Technician	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Erosion Control Worker	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Faller & Bucker Chain Saw	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Fine Graders	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Firewatch	\$38.36	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Form Setter	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Gabian Basket Builders	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	General Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Grade Checker & Transit Person	\$46.66	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Grinders	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Grout Machine Tender	\$45.25	<u>7A</u>	<u>3I</u>	

Grays Harbor	<a href="#">Laborers</a>	Groutmen (pressure)including Post Tension Beams	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Guardrail Erector	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Hazardous Waste Worker (level A)	\$46.66	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Hazardous Waste Worker (level B)	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Hazardous Waste Worker (level C)	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	High Scaler	\$46.66	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Jackhammer	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Laserbeam Operator	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Maintenance Person	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Manhole Builder-mudman	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Material Yard Person	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Motorman-dinky Locomotive	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pavement Breaker	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pilot Car	\$38.36	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pipe Layer Lead	\$46.66	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pipe Layer/tailor	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pipe Pot Tender	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pipe Reliner	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pipe Wrapper	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Pot Tender	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Powderman	\$46.66	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Powderman's Helper	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
Grays Harbor	<a href="#">Laborers</a>	Power Jacks	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	

Grays Harbor	<a href="#">Laborers</a>	Railroad Spike Puller - Power	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Raker - Asphalt	\$46.66	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Re-timberman	\$46.66	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Remote Equipment Operator	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Rigger/signal Person	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Rip Rap Person	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Rivet Buster	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Rodder	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Scaffold Erector	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Scale Person	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Sloper (over 20")	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Sloper Sprayer	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Spreader (concrete)	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Stake Hopper	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Stock Piler	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Tamper & Similar Electric, Air & Gas Operated Tools	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Tamper (multiple & Self-propelled)	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Toolroom Person (at Jobsite)	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Topper	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Track Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Track Liner (power)	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Traffic Control Laborer	\$41.02	<u>7A</u>	<u>3I</u>	<u>8R</u>
Grays Harbor	<a href="#">Laborers</a>	Traffic Control Supervisor	\$41.02	<u>7A</u>	<u>3I</u>	<u>8R</u>
Grays Harbor	<a href="#">Laborers</a>	Truck Spotter	\$45.25	<u>7A</u>	<u>3I</u>	
	<a href="#">Laborers</a>	Tugger Operator	\$46.09	<u>7A</u>	<u>3I</u>	

Grays Harbor						
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 0-30 psi	\$83.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$88.15	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$91.83	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$97.53	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$99.65	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$104.75	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$106.65	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$108.65	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$110.65	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Guage and Lock Tender	\$46.76	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Tunnel Work-Miner	\$46.76	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Grays Harbor	<a href="#">Laborers</a>	Vibrator	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Vinyl Seamer	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Watchman	\$34.86	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Welder	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Well Point Laborer	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers</a>	Window Washer/cleaner	\$34.86	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers - Underground Sewer &amp; Water</a>	General Laborer & Topman	\$45.25	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Laborers - Underground Sewer &amp; Water</a>	Pipe Layer	\$46.09	<u>7A</u>	<u>3I</u>	
Grays Harbor	<a href="#">Landscape Construction</a>	Irrigation Or Lawn Sprinkler Installers	\$11.42		<u>1</u>	
Grays Harbor	<a href="#">Landscape Construction</a>	Landscape Equipment Operators Or Truck Drivers	\$11.17		<u>1</u>	
Grays Harbor	<a href="#">Landscape Construction</a>	Landscaping Or Planting Laborers	\$11.17		<u>1</u>	
Grays Harbor	<a href="#">Lathers</a>	Journey Level	\$55.51	<u>5D</u>	<u>1H</u>	
Grays Harbor	<a href="#">Marble Setters</a>	Journey Level	\$54.32	<u>5A</u>	<u>1M</u>	
	<a href="#">Metal Fabrication (In Shop)</a>	Fitter	\$15.16		<u>1</u>	

Grays Harbor						
Grays Harbor	<a href="#">Metal Fabrication (In Shop)</a>	Laborer	\$11.13		<u>1</u>	
Grays Harbor	<a href="#">Metal Fabrication (In Shop)</a>	Machine Operator	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Metal Fabrication (In Shop)</a>	Painter	\$11.41		<u>1</u>	
Grays Harbor	<a href="#">Metal Fabrication (In Shop)</a>	Welder	\$15.16		<u>1</u>	
Grays Harbor	<a href="#">Millwright</a>	Journey Level	\$57.01	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Cabinet Assembly	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Electrician	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Equipment Maintenance	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Plumber	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Production Worker	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Tool Maintenance	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Utility Person	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Modular Buildings</a>	Welder	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Painters</a>	Journey Level	\$40.60	<u>6Z</u>	<u>2B</u>	
Grays Harbor	<a href="#">Pile Driver</a>	Journey Level	\$55.76	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Plasterers</a>	Journey Level	\$53.20	<u>7Q</u>	<u>1R</u>	
Grays Harbor	<a href="#">Playground &amp; Park Equipment Installers</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Plumbers &amp; Pipefitters</a>	Journey Level	\$67.47	<u>5A</u>	<u>1G</u>	
Grays Harbor	<a href="#">Power Equipment Operators</a>	Asphalt Plant Operators	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Assistant Engineer	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Barrier Machine (zipper)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Batch Plant Operator, Concrete	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Bobcat	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Brokk - Remote Demolition Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
	<a href="#">Power Equipment Operators</a>	Brooms	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>



Grays Harbor						
Grays Harbor	<a href="#">Power Equipment Operators</a>	Bump Cutter	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cableways	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Chipper	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Compressor	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Concrete Finish Machine -laser Screed	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Conveyors	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes Friction: 200 tons and over	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: 20 Tons Through 44 Tons With Attachments	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: A-frame - 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: Friction cranes through 199 tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Crusher	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Deck Engineer/deck Winches (power)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>

Grays Harbor	<a href="#">Power Equipment Operators</a>	Derricks, On Building Work	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Dozers D-9 & Under	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Drilling Machine	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Elevator And Man-lift: Permanent And Shaft Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Forklift: 3000 Lbs And Over With Attachments	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Forklifts: Under 3000 Lbs. With Attachments	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Gradechecker/stakeman	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Guardrail Punch	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Horizontal/directional Drill Locator	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Horizontal/directional Drill Operator	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Hydralifts/boom Trucks Over 10 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Hydralifts/boom Trucks, 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Loader, Overhead 8 Yards. & Over	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Loaders, Overhead Under 6 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Loaders, Plant Feed	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Loaders: Elevating Type Belt	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Locomotives, All	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Material Transfer Device	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>

Grays Harbor	<a href="#">Power Equipment Operators</a>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Motor Patrol Graders	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Overhead, Bridge Type: 100 Tons And Over	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Pavement Breaker	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Pile Driver (other Than Crane Mount)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Plant Oiler - Asphalt, Crusher	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Posthole Digger, Mechanical	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Power Plant	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Pumps - Water	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Quad 9, Hd 41, D10 And Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Rigger And Bellman	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Rigger/Signal Person, Bellman (Certified)	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Rollagon	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Roller, Other Than Plant Mix	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Roller, Plant Mix Or Multi-lift Materials	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Roto-mill, Roto-grinder	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
	<a href="#">Power Equipment Operators</a>	Saws - Concrete	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>

Grays Harbor						
Grays Harbor	<a href="#">Power Equipment Operators</a>	Scraper, Self Propelled Under 45 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Scrapers - Concrete & Carry All	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Scrapers, Self-propelled: 45 Yards And Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Service Engineers - Equipment	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Shotcrete/gunite Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Slipform Pavers	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Spreader, Topsider & Screedman	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Subgrader Trimmer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Tower Bucket Elevators	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Tower Crane Up To 175' In Height Base To Boom	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Tower Crane: over 175' through 250' in height, base to boom	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Tower Cranes: over 250' in height from base to boom	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Transporters, All Track Or Truck Type	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Trenching Machines	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Truck Crane Oiler/driver - 100 Tons And Over	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Truck Crane Oiler/driver Under 100 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Truck Mount Portable Conveyor	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Welder	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>

Grays Harbor	<a href="#">Power Equipment Operators</a>	Wheel Tractors, Farmall Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators</a>	Yo Yo Pay Dozer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Asphalt Plant Operators	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Assistant Engineer	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Barrier Machine (zipper)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Batch Plant Operator, Concrete	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Bobcat	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Brokk - Remote Demolition Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Brooms	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Bump Cutter	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cableways	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Chipper	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Compressor	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Finish Machine -laser Scream	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Conveyors	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes Friction: 200 tons and over	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 20 Tons Through 44 Tons With Attachments	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>		\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Cranes: 300 tons and over or 300' of boom including jib with attachments				
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: A-frame - 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: Friction cranes through 199 tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Crusher	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Deck Engineer/deck Winches (power)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Derricks, On Building Work	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Dozers D-9 & Under	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Drilling Machine	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Elevator And Man-lift: Permanent And Shaft Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Forklift: 3000 Lbs And Over With Attachments	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Forklifts: Under 3000 Lbs. With Attachments	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Gradechecker/stakeman	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Guardrail Punch	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Horizontal/directional Drill Locator	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Horizontal/directional Drill Operator	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
			\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>

Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hydralifts/boom Trucks Over 10 Tons				
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hydralifts/boom Trucks, 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loader, Overhead 8 Yards. & Over	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loaders, Overhead Under 6 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loaders, Plant Feed	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loaders: Elevating Type Belt	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Locomotives, All	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Material Transfer Device	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Motor Patrol Graders	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Overhead, Bridge Type: 100 Tons And Over	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Pavement Breaker	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Pile Driver (other Than Crane Mount)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Plant Oiler - Asphalt, Crusher	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Posthole Digger, Mechanical	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Power Plant	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Pumps - Water	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Quad 9, Hd 41, D10 And Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>

Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Rigger And Bellman	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Rigger/Signal Person, Bellman (Certified)	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Rollagon	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Roller, Other Than Plant Mix	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Roller, Plant Mix Or Multi-lift Materials	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Roto-mill, Roto-grinder	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Saws - Concrete	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Scraper, Self Propelled Under 45 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Scrapers - Concrete & Carry All	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Scrapers, Self-propelled: 45 Yards And Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Service Engineers - Equipment	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shotcrete/gunite Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Slipform Pavers	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Spreader, Topsider & Screedman	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Subgrader Trimmer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Bucket Elevators	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
			\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>



Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Crane Up To 175' In Height Base To Boom				
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Crane: over 175' through 250' in height, base to boom	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Cranes: over 250' in height from base to boom	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Transporters, All Track Or Truck Type	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Trenching Machines	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Crane Oiler/driver - 100 Tons And Over	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Crane Oiler/driver Under 100 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Mount Portable Conveyor	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Welder	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Wheel Tractors, Farmall Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Yo Yo Pay Dozer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Power Line Clearance Tree Trimmers</a>	Journey Level In Charge	\$48.54	<u>5A</u>	<u>4A</u>	
Grays Harbor	<a href="#">Power Line Clearance Tree Trimmers</a>	Spray Person	\$46.03	<u>5A</u>	<u>4A</u>	
Grays Harbor	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Equipment Operator	\$48.54	<u>5A</u>	<u>4A</u>	
Grays Harbor	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer	\$43.32	<u>5A</u>	<u>4A</u>	
Grays Harbor	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer Groundperson	\$32.68	<u>5A</u>	<u>4A</u>	
Grays Harbor	<a href="#">Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$27.68		<u>1</u>	
Grays Harbor	<a href="#">Residential Brick Mason</a>	Journey Level	\$11.50		<u>1</u>	
Grays Harbor	<a href="#">Residential Carpenters</a>	Journey Level	\$24.72		<u>1</u>	
Grays Harbor	<a href="#">Residential Cement Masons</a>	Journey Level	\$20.00		<u>1</u>	
Grays Harbor	<a href="#">Residential Drywall Applicators</a>	Journey Level	\$41.69	<u>5D</u>	<u>4C</u>	
Grays Harbor	<a href="#">Residential Drywall Tapers</a>	Journey Level	\$19.02		<u>1</u>	
Grays Harbor	<a href="#">Residential Electricians</a>	Journey Level	\$31.28	<u>5A</u>	<u>1B</u>	
Grays Harbor	<a href="#">Residential Glaziers</a>	Journey Level	\$27.65	<u>5R</u>	<u>1Z</u>	
Grays Harbor	<a href="#">Residential Insulation Applicators</a>	Journey Level	\$11.00		<u>1</u>	

Grays Harbor	<a href="#">Residential Laborers</a>	Journey Level	\$21.54		<u>1</u>	
Grays Harbor	<a href="#">Residential Marble Setters</a>	Journey Level	\$11.50		<u>1</u>	
Grays Harbor	<a href="#">Residential Painters</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Residential Plumbers &amp; Pipefitters</a>	Journey Level	\$20.40		<u>1</u>	
Grays Harbor	<a href="#">Residential Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Residential Sheet Metal Workers</a>	Journey Level (Field or Shop)	\$45.99	<u>7F</u>	<u>1R</u>	
Grays Harbor	<a href="#">Residential Soft Floor Layers</a>	Journey Level	\$45.86	<u>5A</u>	<u>3D</u>	
Grays Harbor	<a href="#">Residential Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$15.03		<u>1</u>	
Grays Harbor	<a href="#">Residential Stone Masons</a>	Journey Level	\$11.50		<u>1</u>	
Grays Harbor	<a href="#">Residential Terrazzo Workers</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Residential Terrazzo/Tile Finishers</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Residential Tile Setters</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Roofers</a>	Journey Level	\$12.00		<u>1</u>	
Grays Harbor	<a href="#">Sheet Metal Workers</a>	Journey Level (Field or Shop)	\$75.46	<u>7F</u>	<u>1E</u>	
Grays Harbor	<a href="#">Sign Makers &amp; Installers (Electrical)</a>	Journey Level	\$18.04		<u>1</u>	
Grays Harbor	<a href="#">Sign Makers &amp; Installers (Non-Electrical)</a>	Journey Level	\$18.04		<u>1</u>	
Grays Harbor	<a href="#">Soft Floor Layers</a>	Journey Level	\$45.86	<u>5A</u>	<u>3D</u>	
Grays Harbor	<a href="#">Solar Controls For Windows</a>	Journey Level	\$11.00		<u>1</u>	
Grays Harbor	<a href="#">Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$31.00		<u>1</u>	
Grays Harbor	<a href="#">Stage Rigging Mechanics (Non Structural)</a>	Journey Level	\$13.23		<u>1</u>	
Grays Harbor	<a href="#">Stone Masons</a>	Journey Level	\$54.32	<u>5A</u>	<u>1M</u>	
Grays Harbor	<a href="#">Street And Parking Lot Sweeper Workers</a>	Journey Level	\$16.00		<u>1</u>	
Grays Harbor	<a href="#">Surveyors</a>	Assistant Construction Site Surveyor	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Surveyors</a>	Chainman	\$57.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Grays Harbor	<a href="#">Surveyors</a>	Construction Site Surveyor	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
		Journey Level	\$45.07	<u>7E</u>	<u>1E</u>	

Grays Harbor	<a href="#">Telecommunication Technicians</a>					
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Cable Splicer	\$38.84	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Hole Digger/Ground Person	\$21.45	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Installer (Repairer)	\$37.21	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Special Aparatus Installer I	\$38.84	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Special Apparatus Installer II	\$38.03	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Telephone Equipment Operator (Heavy)	\$38.84	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Telephone Equipment Operator (Light)	\$36.09	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Telephone Lineperson	\$36.09	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Television Groundperson	\$20.33	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Television Lineperson/Installer	\$27.21	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Television System Technician	\$32.55	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Television Technician	\$29.18	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Telephone Line Construction - Outside</a>	Tree Trimmer	\$36.09	<u>5A</u>	<u>2B</u>	
Grays Harbor	<a href="#">Terrazzo Workers</a>	Journey Level	\$50.26	<u>5A</u>	<u>1M</u>	
Grays Harbor	<a href="#">Tile Setters</a>	Journey Level	\$50.26	<u>5A</u>	<u>1M</u>	
Grays Harbor	<a href="#">Tile, Marble &amp; Terrazzo Finishers</a>	Finisher	\$41.09	<u>5A</u>	<u>1B</u>	
Grays Harbor	<a href="#">Traffic Control Stripers</a>	Journey Level	\$44.85	<u>7A</u>	<u>1K</u>	
Grays Harbor	<a href="#">Truck Drivers</a>	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
Grays Harbor	<a href="#">Truck Drivers</a>	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$51.86	<u>5D</u>	<u>3A</u>	<u>8L</u>
Grays Harbor	<a href="#">Truck Drivers</a>	Dump Truck	\$17.98		<u>1</u>	
Grays Harbor	<a href="#">Truck Drivers</a>	DUMP TRUCK AND TRAILER	\$17.98		<u>1</u>	
Grays Harbor	<a href="#">Truck Drivers</a>	Other Trucks (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
Grays Harbor	<a href="#">Truck Drivers</a>	Transit Mixer	\$20.92		<u>1</u>	
Grays Harbor	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Irrigation Pump Installer	\$11.60		<u>1</u>	
		Oiler	\$11.00		<u>1</u>	

Grays Harbor	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>				
Grays Harbor	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Well Driller	\$11.60		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.

<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
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		<b>X</b>
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		<b>X</b>
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.		<b>X</b>
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		<b>X</b>
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		<b>X</b>
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.		<b>X</b>
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.		<b>X</b>

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.		<b>X</b>
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).	<b>X</b>	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	<b>X</b>	
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.	<b>X</b>	
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).		<b>X</b>
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..	<b>X</b>	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		<b>X</b>
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		<b>X</b>
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		<b>X</b>

ITEM DESCRIPTION	YES	NO
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		<b>X</b>
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		<b>X</b>
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		<b>X</b>
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		<b>X</b>
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		<b>X</b>
22. Vault Risers - For use with Valve Vaults and Utilities  X Vaults.		<b>X</b>
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		<b>X</b>
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.		<b>X</b>
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.	<b>X</b>	
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	<b>X</b>	



ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	<b>X</b>	
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	<b>X</b>	
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	<b>X</b>	
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	<b>X</b>	
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.	<b>X</b>	
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	<b>X</b>	
33. Monument Case and Cover See Std. Plan.		<b>X</b>

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.	<b>X</b>	
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.	<b>X</b>	
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.	<b>X</b>	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		<b>X</b>
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	<b>X</b>	
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 Special Provisions for pre-approved drawings.	<b>X</b>	
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	<b>X</b>	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		<b>X</b>

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. <b>NOTE:</b> *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	<b>X</b>	<b>X</b>
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		<b>X</b>
44. Guardrail components	<b>X</b>	<b>X</b>
	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		<b>X</b>
48. Electrical wiring/components		<b>X</b>
49. treated or untreated timber pile		<b>X</b>
50. Girder pads (elastomeric bearing)	<b>X</b>	
51. Standard Dimension lumber		<b>X</b>
52. Irrigation components		<b>X</b>

ITEM DESCRIPTION	YES	NO
53. Fencing materials		<b>X</b>
54. Guide Posts		<b>X</b>
55. Traffic Buttons		<b>X</b>
56. Epoxy		<b>X</b>
57. Cribbing		<b>X</b>
58. Water distribution materials		<b>X</b>
59. Steel "H" piles		<b>X</b>
60. Steel pipe for concrete pile casings		<b>X</b>
61. Steel pile tips, standard		<b>X</b>
62. Steel pile tips, custom	<b>X</b>	

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.]

Benefit Code Key – Effective 3/3/2017 thru 8/30/2017

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**Overtime Codes**

**Overtime calculations** are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
  - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
  - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
  - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
  - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.



**Overtime Codes Continued**

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

**Overtime Codes Continued**

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
  - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
  - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
  - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
  - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
  - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
  - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
  - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
  - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
  - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

**Overtime Codes Continued**

3.
  - D. 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 15% over the hourly rate of wage. All other hours worked after 6:00 am 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.
  - E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
  - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
  - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
  - I. All 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 during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) 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 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.
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
  - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
  - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

**Overtime Codes Continued**

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

**EXCEPTION:**

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

**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

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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).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).
- H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating

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Holiday (10).

- I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).

**Holiday Codes Continued**

6. T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls

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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.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**Note Codes**

8. A. In addition to the hourly wage and fringe benefits, the following 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 100' To 150' -\$3.00 per Foot for Each Foot Over 100 Feet  
Over 150' To 220' -\$4.00 per Foot for Each Foot Over 150 Feet  
Over 220' -\$5.00 per Foot for Each Foot Over 220 Feet

**Note Codes Continued**

8. C. In addition to the hourly wage and fringe benefits, the following depth premiums apply to depths of fifty feet or more:  
Over 50' To 100' -\$1.00 per Foot for Each Foot Over 50 Feet  
Over 100' To 150' -\$1.50 per Foot for Each Foot Over 100 Feet  
Over 150' To 200' -\$2.00 per Foot for Each Foot Over 150 Feet  
Over 200' -Divers May Name Their Own Price
- D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- R. 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.
- 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.



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- 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.

Appendix B  
Contract  
(Informational Only)





**Confederated Tribes of the Chehalis Reservation  
CONSTRUCTION CONTRACT**

*for the*

**Eagle I Roadway Improvements**

This Contract is made by and between the Confederated Tribes of the Chehalis Reservation, (Tribe) and (Contractor). This Contract is for work to be performed (the work) for Eagle I Roadway Improvements (the Project), and to afford safe, healthy, and sound construction for the Tribe in compliance with applicable Tribal and federal laws, rules, and regulations.

Contractor, in consideration for the payment of the sum indicated on the attached Scope of Work, which by this reference is made a part hereof, and in consideration for the other covenants and agreements herein contained, agrees to perform and complete the work according to the terms and conditions herein described:

1. Contract Schedule.

A. Upon receipt of a written Notice to Proceed from Tribe, Contractor shall diligently pursue completion of and accomplish all the work for the Project as indicated in the attached Scope of Work and Project Specifications, which are made a part hereof and are incorporated as part of this Contract.

B. Notwithstanding any term to the contrary in the Scope of Work and Project Specifications, the Scope of Work required by this Contract shall be completed no later than 150 days from the date of the Notice to Proceed. Contractor understands that the Tribe intends to open and use the trail on XXX XX, XXXX. Therefore, the Project and all Punch List items for the Project shall be complete and ready for inspection and issuance of Certificate of Occupancy by the Tribe's Chief Building Official no later than XXX XX, XXXX.

C. Excusable delays.

(1) The Contractor shall not be considered to have failed to perform and complete work on schedule under this Contract if such failure arises out of causes beyond the control and without the fault or negligence of the Contractor. Such causes may include, but are not restricted to, acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather, but in every case failure to perform must be beyond the control and without the fault or negligence of the Contractor.

- (2) If Contractor's failure to perform and complete work on schedule is caused by the failure of a subcontractor to perform, such failure shall not result in an excusable delay unless the failure arises out of a cause beyond the control of both the Contractor and the subcontractor and without the fault or negligence of either of them.
    - (3) The Contractor shall within ten (10) days from the beginning of a delay in schedule notify the Tribe in writing of the delay and the cause of the delay. The Tribe shall ascertain the facts and extent of such delay and, if it determines that any failure to perform and complete work on schedule was occasioned by a cause beyond Contractor's control, the contract schedule shall be revised accordingly.
  - D. Upon completion of all work, Contractor shall deliver a written Notice of Substantial Completion to Tribe. Tribe's Contract Representative or his or her designee shall then conduct an inspection of the work and produce a list of non-conforming items (Punch List). Contractor shall immediately correct all Punch List items and request re-inspection. Upon satisfactory completion of all Punch List items, Tribe shall provide a Notice of Final Acceptance. Contractor shall then submit an invoice for final payment of Contractor's fee. The date of completion for the purposes of the warranty granted herein shall be the date of Tribe's Notice of Final Acceptance.
2. Contract Documents. The Contract Documents attached hereto and hereby incorporated herein describe the entire scope and detail of the work to be performed by the Contractor, and the terms and conditions under which such work is to be performed. The Contract Documents consist of the following:
    - A. This Construction Contract;
    - B. Contractor Proposal/Bid Package dated XXXXXXXX;
    - C. Project Drawings/Specifications dated XXXXXXXX, as prepared by Parametrix Inc.;
    - D. Change Order Form;
  3. Contract Representatives. The Contract Officer for the Tribe is General Manager, Marla Conwell. The Contract Representative/Primary Point-of-Contact for the Tribe on this project is Planning Department Transportation Planner, Jesse Gleason. The Contract Representative for the Contractor is (Contractor). All notices to the parties shall be directed through the Contract Representatives.
  4. Contract Payments. The Tribe shall make payment to the Contractor in exchange for Contractor's work on the Project of a sum not to exceed the total of \$XXXXXX.XX (XXXXXX XXXXXX XXXXXX XXXXXX DOLLARS). The Tribe shall make payment within thirty (30) days after receipt of Contractor's invoice for final payment, or on a schedule agreed to by both parties as described in the Scope of Work attached hereto. The final payment shall only be made after receipt of final approval of the work by the Chehalis Business Committee and issuance of a Notice of Final Acceptance. A retainage

fee of not less than 5% of the total fee shall be held until all parties, including without limitation the Tribal Building Inspector, accept all work including punch list items as being complete. Contractor shall provide all warranties, lien waivers, and project as-builts as specified prior to final payment.

5. **Contract Amendments.** Amendments to this Contract shall only be made in writing and as agreed to and executed by the parties, except that certain changes may be made to the Scope of Work by valid Change Order as described below.
6. **Change Orders.** Changes to the work at the request of the Tribe after the commencement of construction shall be documented and approved using the attached “Change Order” form. Such changes are not valid and are not compensable unless they are documented on the required form, are duly authorized by the Contract Representatives of both parties, and are added to the contract file. The additional cost, if any, of Change Order work shall be clearly stated on the Change Order form and shall be paid on the same payment schedule as other work. If the Change Order work will result in a change to the project schedule, such change must also be noted and agreed on the Change Order form.
7. **Contractor’s Work.** Contractor shall furnish all necessary machinery, tools, apparatus, equipment, supplies, materials, and labor for the completion of the work unless otherwise specified in the Contract documents.
8. **Licenses, Permits, and Inspections.** Contractor shall obtain and maintain all required licenses or permits and meet all requirements of applicable Tribal, State, and/or Federal laws and regulations for the successful completion of the Project. Contractor may not commence work until all required tribal licenses are obtained, including without limitation a Chehalis Tribal Business License (application fee \$25.00). Contractor’s work must pass the inspection of the Tribe’s Building Inspector. Contractor will provide to Tribe copies of its valid Contractor’s License and Workers Compensation, Bonding, and Insurance Certificates issued by the State of Contractor’s residence.
9. **Assignment.** Contractor shall not enter into any subcontracts for any of the work scheduled under this Contract, or assign any right, interest or obligation under this Contract, without obtaining the prior written approval of the Tribe.
10. **Warranty.** Contractor warrants that all materials used will be new and of good quality unless use of other materials is approved in writing by the Tribe, that all work will be free of defects in workmanship, and that the work will conform to the conditions of this Contract. This warranty is for a period of twelve (12) months following the date of the Notice of Final Acceptance. Warranty claims shall be submitted to Contractor in writing within the twelve (12) month warranty period. Contractor is obligated to respond to all such claims and perform corrective work on such claims brought during the warranty period, whether corrective work occurs during or after the warranty period.

11. Breach and Cure. Upon breach of any provision of this Contract by either party, the non-breaching party shall deliver written notice of breach and demand for cure to the breaching party. The breaching party shall immediately commence curative efforts and shall diligently continue such efforts until cure of the breach.
12. Termination. In event of contract termination by any of the following provisions, the parties agree to provide notification in writing of the reason(s) for termination and the effective date.
  - A. Termination for Cause. The Tribe, by written notice of default (including breach of contract) to the Contractor may immediately terminate the whole or any part of this Contract if Contractor fails to perform in the manner called for by this Contract; or fails to provide the services within the time specified herein, or otherwise breaches any of the other provisions of this Contract; or fails to pursue the work as to endanger performance of this Contract in accordance with its terms, and does not correct such failures in a timely manner.
  - B. Termination for Bankruptcy or Insolvency. The Tribe may immediately terminate this Contract if Contractor files for bankruptcy or is involuntarily declared to be bankrupt or insolvent according to law, or if an assignment of Contractor's property shall be made for the benefit of creditors. The Tribe may thereupon remove Contractor and his effects, forcibly if necessary, without being deemed liable for trespass and without prejudice to any other remedy which Tribe may use at its discretion.
  - C. Termination for convenience. This Contract may be terminated in whole or in part if the Tribe and Contractor agree that continuation of the project would not produce beneficial results commensurate with the further expenditure of funds. The parties will agree upon termination conditions, including effective date, and in the case of partial termination, the portions of the Contract to be terminated.
  - D. Termination in Event of Damaged or Destroyed Property. Either party may terminate this Contract if the property is substantially damaged or destroyed by fire, natural disaster or causes other than by deliberate acts or negligence by the Contractor.
13. Rights not exclusive. The rights and remedies of the Tribe provided in Sections 11 and 12 related to defaults by the Contractor shall not be exclusive and are in addition to any other rights or remedies provided by law or under this Contract.
14. Compensation in Event of Termination. If the Contract is terminated for reasons identified in Section 12 above, the Tribe will compensate the Contractor proportionately for the work that has been satisfactorily completed up to the date of termination. The Tribe in accordance with generally accepted standards of the trade will determine whether work is satisfactory. Should the Tribe terminate the Contract for cause, the Tribe may in addition to other remedies withhold any funds due to Contractor that are required to correct Contractor's non-conforming work or to otherwise pay for damages caused by Contractor's non-conforming work.

15. Copeland Act. Contractor shall comply with the Copeland “Anti-Kickback” Act (18 USC § 847) as supplemented in U.S. Department of Labor Regulations, (29 CFR Part 3) and shall not induce by any means any person employed in the Project to give up any part of the compensation to which he or she is otherwise entitled.
16. Insurance. The Contractor shall obtain and keep in force policies of insurance from the execution date of this Contract to the date of final acceptance by the Tribe (unless otherwise indicated) and, except for Commercial Automobile Liability, during the period of any required warrantee, as follows:
- Commercial General Liability (CGL) Insurance with minimum limits of \$1,000,000 per occurrence and in the aggregate for each 1-year policy period. This coverage may be any combination of primary, umbrella, or excess liability coverage affording total liability limits of not less than \$1,000,000 per occurrence and in the aggregate.
  - Commercial Automobile Liability Insurance providing bodily injury and property damage liability coverage for all owned and non-owned vehicles assigned to or used in providing the goods and services or the performance of the Work, with a combined single limit of not less than \$1,000,000 per occurrence. This coverage may be any combination of primary, umbrella, or excess liability coverage affording total liability limits of not less than \$1,000,000 per occurrence and in the aggregate.
  - Employer’s Liability Insurance providing bodily injury and disease liability coverage with a combined single limit of \$1,000,000 by Accident Each Accident, Disease Policy Limit and Disease Each Employee in connection with providing the goods and services, or performance of the Work. This coverage may be any combination of primary, umbrella, or excess liability coverage affording total liability limits of not less than \$1,000,000 per occurrence and in the aggregate.

The Contractor shall furnish the Tribe with a Certificate of Insurance evidencing the insurance coverages set forth above (i.e. ACORD Form 25 or other form deemed acceptable by the Tribe) prior to beginning any services or performing any work under this Contract. The Certificate must explicitly name the “Confederated Tribes of the Chehalis Reservation,” including all commissioners, officers and employees of the Tribe, and their respective members, directors, officers, employees, agents, consultants, etc. as an Additional Insured for all policies and coverages. The certificate and its policy shall not contain any clauses, conditions and/or statements that limit coverages, or require arbitration or alternative dispute resolution applicable to disputes between the insurer and its insureds.

The insurer(s) shall give notice to the Tribe by certified mail, at least 30 days prior to the effective date of any cancellation, lapse or material change in the policy.

By requiring the minimum insurance amounts above, the Tribe shall not be deemed to have assessed the risks that may be applicable to the Contractor under this Contract. The Contractor shall assess its own risks and, if it deems appropriate, maintain greater limits

and/or broader coverage. The Contractor shall also have sole responsibility for determining the limits of coverage required, if any, to be obtained by Subcontractors, which determination shall be made in accordance with reasonable and prudent business practices.

17. **Applicable Law.** It is expressly understood that the laws of the Tribe, including without limitation Chehalis Tribal Code Chapter 11.10–Construction Safety, and where applicable Federal laws shall govern this Contract.
18. **Disputes.** All reasonable efforts will be made to negotiate and resolve disputes between the Tribe and the Contractor. If, however, resolution cannot be achieved, the Contractor consents to the exclusive jurisdiction of the Chehalis Tribal Court, and any litigation necessary to enforce the obligations of either party under this Contract must be brought into the Chehalis Tribal Court to the extent jurisdiction obtains. Both as to interpretation and performance, the laws of the Tribe shall govern this Contract; in the absence of tribal law, federal law applies. Nothing in this Contract shall be construed to constitute a waiver of the Tribe’s sovereign immunity.
19. **Liens.** Contractor shall promptly, as due, make payments of all debts, dues, demands and obligations incurred in the performance of this Contract and shall not permit any lien or claim to be filed or prosecuted against the Tribe.
20. **Indemnity.** Contractor shall indemnify and hold Tribe harmless from any and all claims, causes of action, losses, damages, expenses, and fees, including without limitation attorney’s fees, arising out of Contractor’s performance of the work.
21. **Severability.** If any provision of this Contract is held invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of any other provision of this Contract.
22. **Native Preference.** For all tribally-owned projects, Contractor and all sub-contractors shall exercise Native Preference and Chehalis Tribal Preference according to the Chehalis Tribal Procurement Policies in hiring staff or engaging subcontractors for the completion of the Project. The Tribe’s Planning Department shall assist Contractor in exercising this preference by providing copies of relevant policy sections and at Contractor’s request by advising Contractor with regard to hiring or engagement of subcontractors.
23. **Taxes.** Contractor acknowledges that Washington State sales and excise taxes may not be charged on the delivery of the goods and/or services described under this Contract to the Chehalis Tribe in Indian Country, and shall not include any Washington or other state sales or excise tax in the fees charged under this Contract.
24. **Records.** Contractor shall retain for not less than three (3) years all financial and other records pertinent to this Contract and make such records available to agents of the Tribe and to agents of any federal agency identified by the Tribe or by the Comptroller General of the United States, for the purpose of conducting an audit.



25. Relationship. Nothing in this Contract shall be construed to create any relationship of joint venture, partnership, employment, agency, or any other relationship between the parties. Contractor is solely responsible for compliance with any and all laws and regulations applicable to Contractor, and for payment of any self-employment or other taxes that may apply to Contractor's earnings resulting from performance of this Contract.
26. Drugs and Alcohol. Contractor shall maintain and enforce adequate policies to ensure that all of Contractor's employees, representatives, agents and subcontractors maintain a drug-and-alcohol-free working environment while performing the work. The use of drugs or alcohol by Contractor or any of Contractor's employees, agents, or subcontractors while providing services under this Contract, or the performance of services under this Contract by such persons while under the influence of drugs or alcohol, shall constitute a material breach of this Contract. In the event of such a breach, the Chehalis Tribe may terminate this Contract immediately by giving verbal or written notice to Contractor or to Contractor's senior on-site agent or employee.
27. Exclusion. The Chehalis Tribe maintains the inherent authority to remove and exclude from the territory of the Chehalis Tribe, which includes the Chehalis Reservation and tribal trust lands, any person who is not an enrolled Chehalis tribal member whose presence in the Tribe's territory may be injurious to the peace, health, or welfare of the Chehalis Tribe. Contractor shall maintain and enforce adequate internal policies and procedures to ensure that neither Contractor, nor any of Contractor's employees, agents, or subcontractors who enter the Tribe's territory pursuant to this Contract, shall have been convicted of a "sex offense" requiring registration as a "sex offender," as those terms are defined under the laws of the United States, Chehalis tribal law, or the law of any tribe or state. The presence of such a person in the Tribe's territory on Contractor's behalf under this Contract shall constitute a material breach of this Contract. In the event of such a breach, the Chehalis Tribe may terminate this Contract immediately by giving verbal or written notice to Contractor or to Contractor's senior on-site agent or employee. The Chehalis Tribe reserves the right to confirm Contractor's compliance with this provision by conducting a criminal background check of Contractor and any of Contractor's employees, agents, or subcontractors who perform work within the territory of the Chehalis Tribe under this Contract.
28. Notice. Notices required to be delivered in writing shall be delivered to the following addresses:

<b>To Contractor:</b>	<b>To Tribe:</b>
	<u>By mail</u>
(Contractor) ATTN: (Representative) Street Address City, ST Zip Code	Chehalis Planning ATTN: Jesse Gleason PO Box 536 Oakville, WA 98568
	<u>By email</u>
(Email Address)	jgleason@chehalis-tribe.org

29. Construction of Contract Terms. The language in this Contract shall be interpreted as to its fair meaning. The headings in this Contract are for convenience and are not intended to affect contract construction or interpretation. Any reference to paragraphs, sub-paragraphs, sections, or subsections are to those parts of this Contract, unless the context clearly indicates otherwise. Both parties have had the opportunity to consult legal counsel of their own choosing. Any rule of construction that ambiguities are to be resolved against the drafting party shall not apply in interpreting this Contract.

30. Counterparts. This Contract may be executed in counterparts, each of which shall be deemed an original hereof and which shall be effective upon both parties' receipt of a copy executed by the duly authorized representative of each party. The signatories hereto represent and warrant that they are authorized to execute this Contract on behalf of their respective parties.

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**Confederated Tribes of the Chehalis  
Reservation**

**(Contractor)**

\_\_\_\_\_  
Marla Conwell, General Mgr.

Date: \_\_\_\_\_

\_\_\_\_\_  
Date: \_\_\_\_\_