CONTRACT DOCUMENTS

For:

YAKIMA COUNTY
TERRACE HEIGHTS DR & BUTTERFIELD RD
INTERSECTION SIGNALIZATION PROJECT

Federal Aid Project No: CM 4628 (007)
Yakima County Project No. C 3288
CERTIFICATE

I HEREBY CERTIFY THAT THE ATTACHED DOCUMENTS, PLANS, AND SPECIFICATIONS CONFORM TO ORIGINALS WHICH ARE ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF YAKIMA COUNTY, WASHINGTON.

COUNTY ENGINEER

DATE: 11/26/13
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INSTRUCTIONS TO BIDDERS

DELIVERY OF PROPOSALS

Sealed bids will be received at the following location before the specified time:

Yakima County Public Services, Fourth Floor County Courthouse, 128 N. 2nd Street, Yakima, Washington 98901 until 2:00 p.m. of the bid opening date.

Each proposal, or bid shall be completely sealed in a separate package, addressed to the Engineer of Yakima County with the name of the improvements for which the bid is submitted plainly written on the outside of the package.

No oral, telephonic, facsimile, or telegraphic Bids or modifications shall be accepted.

DATE OF OPENING BIDS

The bid opening date for this project shall be December 18, 2013.

The bids shall be publicly opened and read after 2:00 p.m. on that date at the following location:

Yakima County Road Engineer’s Office, fourth floor, Yakima County Courthouse, 128 N. 2nd Street, Yakima, Washington 98901.

RIGHT TO REJECT BIDS:

The right is reserved to reject any and all proposals, to accept the proposal or proposals deemed best for the County or to advertise for new proposals when in the opinion of the Board the best interest of the County shall be promoted thereby.

PROPOSAL GUARANTY:

A certified check, cashiers check, cash or bid bond made payable to the Treasurer of the County of Yakima for an amount equal to at least five percent (5%) of the total amount bid must accompany each bid as evidence of good faith and as a guarantee that if awarded the Contract the bidder shall execute the Contract and give Bond as required.

FORM FURNISHED:

Each bid must be made on the form attached to these Specifications.

This project is a federal-aid funded project. Yakima County in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it shall affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises shall be afforded full opportunity to submit bids in response to this invitation and shall not be discriminated against on the grounds of race, color or national origin in consideration for an award.

YAKIMA COUNTY IS AN EQUAL OPPORTUNITY EMPLOYER
PROPONAL -

This certifies that the undersigned has examined the location of the noted projects:

C 3288 TERRACE HEIGHTS DR & BUTTERFIELD RD INTERSECTION SIGNALIZATION PROJECT

And that the Plans, Specifications and Contract governing the work embraced in these improvements, and the method by which payment will be made for said work, is understood. The undersigned hereby proposes to undertake and complete the work embraced in these improvements, or as much as can be completed with the money available, in accordance with the said Plans, Specifications, and Contract, and the following schedule of rates and prices:

NOTE: Unit Prices for all items, all extensions, and total amount of bid shall be shown. Sales Tax shall be included in Unit Prices. No oral, telephonic, facsimile, or telegraphic Bids or modifications shall be considered or accepted.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Approx. Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Total Item Amount</th>
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<td>MOBILIZATION</td>
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<td>L.S.</td>
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<td>2</td>
<td>CLEARING AND GRUBBING</td>
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<td>3</td>
<td>REMOVAL OF STRUCTURE AND OBSTRUCTION</td>
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<td>11</td>
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<td>26</td>
<td>Structure excavation class B incl. haul</td>
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<td>27</td>
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<td>28</td>
<td>Cement conc. curb ramp type parallel A</td>
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<td>29</td>
<td>Cement conc. curb ramp type parallel B</td>
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<td>30</td>
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<td>Remove and reset monument case and cover</td>
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<td>32</td>
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<td>33</td>
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**Total** $
PROPOSAL – Continued

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

CASH [ ] IN THE AMOUNT OF ______________________

CASHIER’S CHECK [ ] ___________________________ DOLLARS

CERTIFIED CHECK [ ] ($_________) PAYABLE TO THE COUNTY TREASURER

PROPOSAL BOND [ ] IN THE AMOUNT OF 5 PERCENT (5%) OF THE BID

Bidder acknowledges receipt of the following Addendums:

No. Date

The undersigned has telephoned the office of the Yakima County Engineer for verification of the number of Addendums issued.

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Title: __________________________________________

Firm Name: _____________________________________

Address: _______________________________________

Phone No.: _______________________________________

Washington Registration No.: ______________________

Federal ID Tax No.: ______________________________

UBI No.: _______________________________________

E-Mail: _________________________________________

Signed and sworn (or affirmed) before me on _______________ Date

___________________________ (Seal and Stamp)

NOTARY PUBLIC
My appointment expires ____________________________

NOTE: (1) This proposal is not transferable and any alteration of the firm’s name entered hereon without prior permission from the County Engineer shall be cause for considering the proposal irregular and subsequent rejection of the bid.

(2) Please refer to Section 1-02.6 of the Standard Specifications, re: “Preparation of Proposal” or “Article 4” of the Instruction to Bidders for building construction jobs.

(3) Should it be necessary to modify this proposal either in writing or by electronic means, please make reference to the following proposal number in your communications C3288.
LETTER OF RESPONSIBILITY

Date: ______________________
County Road Project No.: C 3288

TO:
BOARD OF COUNTY COMMISSIONERS OF YAKIMA COUNTY, WASHINGTON
(Party awarding principal contract)

Dear Sirs:

I hereby maintain that I am a responsible bidder as contemplated by the policies of the State of Washington (Chapter 157, Laws of Washington of 1937).

a. My permanent place of business is ____________________________, which I have maintained for _______ years.

b. I have adequate plant equipment to do expeditiously and properly the work contemplated for Yakima County, Washington.

DESCRIPTION OF WORK:

C 3288 – Terrace Heights Dr & Butterfield Rd Intersection Signalization Project

I have the following equipment available for this work:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

c. I have adequate funds to promptly meet obligations incident to this work.
   Bank reference: _________________________________________________________

________________________________________________________________________

________________________________________________________________________

d. I have had experience in this class of work, having constructed the following improvements.

I hereby certify that the above is a true and accurate statement.

Very truly yours,

_________________________________________
Contractor

NOTE: This sheet need not be submitted, unless so requested by the Engineer subsequent to opening of bid. This “letter of responsibility” shall not be construed to be a request for Prequalification of bidder.
DEFINITION OF TERMS

In interpreting these specifications, the following definitions shall prevail:


SECRETARY OF TRANSPORTATION: Secretary of Transportation of the State of Washington.

BOARD: The Board of County Commissioners of Yakima County.

ENGINEER: County, or construction engineer, or his duly authorized assistants by whom all explanations and directions necessary for the satisfactory prosecution and completion of the work described in these specifications will be given.

CONTRACTOR: The person, firm, co-partnership, or corporation, or any lawful agent of such person, firm, partnership or corporation constituting one of the principals to the contract and undertaking to perform the work herein specified.

CONTRACT: The Agreement between the Contractor and the County of Yakima acting through the Board of County Commissioners. The contract shall include the accepted "Proposal", "Plans", "Specifications" and "Contract Bond", also any and all supplemental agreements which reasonably could be required to complete the construction of the work in a substantial and acceptable manner.

PROPOSAL: The written offer, or copy thereof of the bidder to perform the work proposed.

PLANS: The officially approved drawings, or reproductions thereof attached to this contract.

SPECIFICATIONS: The directions, provisions and requirements contained herein, together with all written agreements made, or to be made pertaining to the method and manner of performing the work, or to the quantities and qualities of materials to be furnished under the contract.

CONTRACT BOND: The approved form of security furnished by the Contractor and his surety as a guarantee of good faith on the part of the Contractor to execute the work in accordance with the terms of the contract.

LABORATORY: The laboratories of the Department of Transportation, or other laboratories designated by the engineer.

AMOUNT OF THE CONTRACT: For the purpose of awarding the contract and determining the amount of the bond, the lump sum bid, or the summation of the products of the approximate quantities shown on the plans or otherwise stated by the unit prices will be considered the total amount of the bid and the full amount of the contract price.
Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

2. That by signing the signature page of this proposal, I am deemed to have signed and have agreed to the provisions of this declaration.

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U. S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.
Certification Regarding
Debarment, Suspension, Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 29 CFR Part 98, Section 98.510, Participant's responsibilities. The regulations were published as Part VII of the May 26, 1998 Federal Register (pages 19160-19211).

(BEFORE COMPLETING CERTIFICATION, READ ATTACHED INSTRUCTIONS WHICH ARE AN INTEGRAL PART OF THE CERTIFICATION)

(1) The prospective recipient of federal assistance funds certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

(2) Where the prospective recipient of federal assistance funds is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Name and Title of Authorized Representative

Signature                                      Date
Local Agency Disadvantaged Business Enterprise Utilization Certification

To be eligible for award of this contract the bidder must fill out and submit, as part of its bid proposal, the following Disadvantaged Business Enterprise Utilization Certification relating to Disadvantaged Business Enterprise (DBE) requirements. The Contracting Agency shall consider as non-responsive and shall reject any bid proposal that does not contain a DBE Certification which properly demonstrates that the bidder will meet the DBE participation requirements in one of the manners provided for in the proposed contract. The Bidder must submit good faith effort documentation only in the event the bidder's efforts to solicit sufficient DBE participation has been unsuccessful. The successful bidder's Disadvantage Business Enterprise Utilization Certification shall be deemed a part of the resulting contract. Information on certified firms is available from OMWBE, telephone 360-564-8750 or Toll Free 1-866-208-1054.

**Box 1** Name of Bidder
Firms listed below have been contacted regarding participation on this project. If this bidder is successful on this project and is awarded the contract, it shall assure that subcontracts or supply agreements are executed with those firms where an "Amount to be Applied Towards Goal" is listed. (If necessary, use additional sheet.)

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name of DBE Certificate Number</strong></td>
<td><strong>Project Role</strong> (Prime, Joint Venture, Subcontractor, Manufacturer, Rep, Dealer)</td>
<td><strong>Description of Work</strong></td>
<td><strong>Amount to be Applied Towards Goal</strong></td>
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<td>10.</td>
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</table>

Disadvantaged Business Enterprise Subcontracting Goal: ____________________________  DBE Total $ ____________________________

* Regular Dealer status must be approved prior to bid submittal by the Office of Equal Opportunity, Wash. State Dept. of Transportation, on each contract.

** See the section "Crediting DBE Participation Toward Meeting the Goal" in the Contract Document.

*** The Contracting Agency will utilize this amount to determine whether or not the bidder has met the goal. In the event of an arithmetic difference between this total and the sum of the individual amounts listed above, then the sum of the amounts listed shall prevail and the total will be revised accordingly. Participation in excess of the goal amount will be considered voluntary or race-neutral participation.

SR
DOT Form 372-056A EF 07/2011
Local Agency Certification for Federal-Aid Contracts

The prospective participant certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is material representation of the fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.
Local Agency Disadvantaged Business Enterprise (DBE) Written Confirmation Document

As an authorized representative of the Disadvantaged Business Enterprise (DBE), I confirm that we have been contacted by the referenced bidder with regard to the referenced project and if the bidder is awarded the contract we will enter into an agreement with the bidder to participate in the project consistent with the information provided in the bidder's Disadvantaged Business Enterprise Utilization Certification.

Contract Title: ____________________________

Bidder's Business Name: ____________________________

DBE's Business Name: ____________________________

DBE Signature: ____________________________

DBE's Title: ____________________________

Date: ____________________________

The entries must be consistent with what is shown on the bidder's Disadvantaged Business Enterprise Utilization Certification. Failure to do so will result in bid rejection. See contract provision; Disadvantaged Business Enterprise Condition of Award Participation.

Description of Work: ____________________________

Amount to be Applied Towards Goal: ____________________________
CONTRACT

THIS AGREEMENT is made and entered into between Yakima County acting under and by virtue of Titles 36 and 39 RCW, hereinafter called the “COUNTY” and ___________________________, hereinafter called the “CONTRACTOR”.

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

I. The CONTRACTOR shall do all work and furnish all tools and equipment for C 3288 - TERRACE HEIGHTS DR & BUTTERFIELD RD INTERSECTION SIGNALIZATION PROJECT, and shall perform any changes in the work in accordance with the Contract Documents, which include the Contract Form, Bidder’s completed Proposal Form, Scope of Work, Contract Plans, Contract Provisions, Standard Specifications, Standard Plans, Addenda, various certifications and affidavits, supplemental agreements, and any change orders.

II. The CONTRACTOR shall provide and bear the expense of all equipment, material and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in the Contract Documents except those items mentioned therein to be furnished by Yakima County.

III. The COUNTY hereby promises and agrees to pay the CONTRACTOR according to the conditions stated in the Contract Documents.

IV. The CONTRACTOR for itself, and for its heirs, executors, administrators, successors and assigns does hereby agree to the full performance of all the covenants herein contained from the part of the CONTRACTOR.

V. It is further provided that no liability shall attach to the COUNTY by reason of entering into this Contract, except as expressly provided herein.

VI. The parties agree that, for the purpose of this agreement, the CONTRACTOR is an independent contractor and neither the CONTRACTOR nor any employee of the CONTRACTOR is an employee of the COUNTY. Neither the CONTRACTOR nor any employee of the CONTRACTOR is entitled to any benefits that the COUNTY provides its employees. The CONTRACTOR is solely responsible for payment of any statutory workers compensation or employer’s liability insurance as required by state law.

IN WITNESS WHEREOF, the CONTRACTOR has executed this instrument, on the date indicated below and Yakima County has caused this instrument to be executed in the name of said COUNTY by and through the Board of Yakima County Commissioners on the date indicated below.

CONTRACTOR:
Signed:_________________________ 2013

________________________
Signature for

________________________
Print or Type Name of Person Signing

________________________
Title

________________________
Foregoing Contract approved and ratified
20____

________________________
Surety

________________________
Attorney in fact

BOARD OF YAKIMA COUNTY COMMISSIONERS
Signed:_________________________ 2013

________________________
Michael D. Leita, Chairman

________________________
Kevin J. Bouche, Commissioner

________________________
J. Rand Elliott, Commissioner

ATTEST: Clerk of the Board

________________________
Tiera Girard

Approved as to form:

________________________
Deputy Prosecuting Attorney

C 3288 Terrace Heights Dr & Butterfield Rd Signalization
PERFORMANCE BOND
(RCW 39.08)

KNOW ALL MEN BY THESE PRESENTS, That__________________________, as “PRINCIPAL”, and ________________________________, a corporation authorized to do business in the State of Washington, as “SURETY”, are jointly and severally held and bound unto Yakima County, Washington in the penal sum ____________________________ Dollars ($_________ ) for the payment of which by these presents we jointly and severally bind ourselves, our heirs, executors, administrators, assigns, and successors.

THE CONDITION of this bond is such that WHEREAS, on ____________________, 20___, the PRINCIPAL executed a certain Contract with the County, by the terms of which PRINCIPAL agrees to furnish all material and labor and will undertake and complete the construction of for C 3288 - TERRACE HEIGHTS DR & BUTTERFIELD RD INTERSECTION SIGNALIZATION PROJECT, according to the maps, plans and specifications made a part of said Contract, which Contract is attached hereto and by this reference is incorporated herein and made a part hereof. FURTHER, the SURETY agrees to be bound by the laws of the State of Washington and subjected to the jurisdiction of the State of Washington.

NOW, THEREFORE, if the PRINCIPAL shall faithfully perform all the provisions of such contract and pay all laborers, mechanics, subcontractors and materialmen, and all persons who supply such persons or subcontractors with provisions or supplies for the carrying on of such work, then this obligation to be void; otherwise to remain in full force and effect.

Dated this ____________ day of ______________ 20___.

______________________________________________
PRINCIPAL

By: ________________________________ By: ________________________________

Title: ________________________________ Chair of the Board of

Yakima County Commissioners

______________________________________________
SURETY

By: ________________________________

Attorney-in-Fact

Date: ________________________________ 20___

Approved as to form:

Deputy Prosecuting Attorney

Name of Local Office of Agent

Address of Local Office Agent

______________________________________________
BOND NUMBER

YAKIMA COUNTY CONTRACT NUMBER

C 3288 Terrace Heights Dr & Butterfield Rd Signalization

Page 13 Informational Contract Documents
AMENDMENTS TO THE STANDARD SPECIFICATIONS
AMENDMENTS TO THE STANDARD SPECIFICATIONS

C 3288 TERRACE HEIGHTS DR & BUTTERFIELD RD INTERSECTION
SIGNALIZATION PROJECT,

YAKIMA COUNTY, WASHINGTON

INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the 2012 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.

DIVISION 1
GENERAL REQUIREMENTS

SECTION 1-01, DEFINITION AND TERMS
August 5, 2013

1-01.2(2) Items of Work and Units of Measurement
The following abbreviation in this section is deleted:

ATB Asphalt Treated Base

1-01.3 Definitions
The definition for “Bid Documents” is revised to read:

The component parts of the proposed Contract which may include, but are not limited to, the Proposal Form, the proposed Contract Provisions, the proposed Contract Plans, Addenda, and, for projects with Contracting Agency subsurface investigations, the Summary of Geotechnical Conditions and subsurface boring logs (if any).

The definition for “Superstructures” is revised to read:

The part of the Structure above:
1. The bottom of the grout pad for the simple and continuous span bearing, or
2. The bottom of the block supporting the girder, or
3. Arch skewback and construction joints at the top of vertical abutment members or rigid frame piers.

Longitudinal limits of the Superstructure extend from end to end of the Structure in accordance with the following criteria:

1. From the face of end diaphragm abutting the bridge approach embankment for end piers without expansion joints, or
2. From the end pier expansion joint for bridges with end pier expansion joints.

Superstructures include, but are not limited to, the bottom slab and webs of box girders, the bridge deck and diaphragms of all bridges, and the sidewalks when shown on the bridge deck. The Superstructure also includes the girders, expansion joints, bearings, barrier, and railing attached to the Superstructure when such Superstructure components are not otherwise covered by separate unit measured or lump sum bid items.

Superstructures do not include endwalls, wingwalls, barrier and railing attached to the wingwalls, and cantilever barriers and railings unless supported by the Superstructure.

SECTION 1-02, BID PROCEDURES AND CONDITIONS
January 2, 2012

1-02.4(2) Subsurface Information
The first two sentences in the first paragraph are revised to read:

If the Contracting Agency has made subsurface investigation of the site of the proposed work, the boring log data, soil sample test data, and geotechnical recommendations reports obtained by the Contracting Agency will be made available for inspection by the Bidders at the location specified in the Special Provisions. The Summary of Geotechnical Conditions, as an appendix to the Special Provisions, and the boring logs shall be considered as part of the Contract.

SECTION 1-03, AWARD AND EXECUTION OF CONTRACT
April 2, 2012

1-03.1(1) Tied Bids
This section’s title is revised to read:

1-03.1(1) Identical Bid Totals
SECTION 1-05, CONTROL OF WORK
August 6, 2012

1-05.13(1) Emergency Contact List
The second sentence in the first paragraph is revised to read:

The list shall include, at a minimum, the Prime Contractor’s Project Manager, or equivalent, the Prime Contractor’s Project Superintendent, the Erosion and Sediment Control (ESC) Lead and the Traffic Control Supervisor.

SECTION 1-06, CONTROL OF MATERIAL
August 5, 2013

1-06.1(3) Aggregate Source Approval (ASA) Database
The last paragraph is revised to read the following two new paragraphs:

Aggregate materials that are not approved for use in the ASA database may be sampled and tested by the Agency, for a specified use on a project, from the source or from a processed stockpile of the material and all cost for the sampling and testing will be deducted from the Contract.

The Contractor agrees to authorize the Project Engineer to deduct the sampling and testing costs from any money due or coming due to the Contractor.

1-06.1(4) Fabrication Inspection Expense
The first paragraph is revised to read:

In the event the Contractor elects to have items fabricated beyond 300 miles from Seattle, Washington, the Contracting Agency will deduct from payment due the Contractor costs to perform fabrication inspection on the following items:

- Bridge Bearings (Cylindrical, Disc, Fabric Pad, Pin, Pendulum, Rocker, and Spherical)
- Cantilever Sign Structures and Sign Bridges
- Epoxy-Coated Reinforcing Steel
- Metal Bridge Railing and Handrail
- Modular Expansion Joints
- Painted Piling and Casing
- Painted and Powder-Coated Luminaire and Signal Poles
- Precast Concrete Catch Basins, Manholes, Inlets, Drywells, and Risers
- Precast Concrete Drain, Perforated Underdrain, Culvert, Storm Sewer, and Sanitary Sewer Pipe
- Precast Concrete Three Sided Structures
- Precast Concrete Junction Boxes, Pull Boxes, Cable Vaults, Utility Vaults, and Box Culverts
- Precast Concrete Traffic Barrier
- Precast Concrete Marine Pier Deck Panels
• Precast Concrete Floor Panels
• Precast Concrete Structural Earth Walls, Noise Barrier Walls, and Wall Stem Panels
• Precast Concrete Retaining Walls, including Lagging Panels
• Prestressed Concrete Girders and Precast Bridge Components
• Prestressed Concrete Piles
• Seismic Retrofit Earthquake Restainers
• Soldier Piles
• Steel Bridges and Steel Bridge Components
• Steel Column Jackets
• Structural Steel for Ferry Terminals, including items such as Dolphins, Wingwalls, and Transfer Spans
• Treated Timber and Lumber 6-inch by 6-inch or larger
• Timber
• Additional items as may be determined by the Engineer

The footnote below the table is revised to read:

* An inspection day includes any calendar day or portion of a calendar day spent by one inspector inspecting, on standby, or traveling to and from a place of fabrication. An additional cost per inspection day will be assessed for each additional inspector. Reimbursement will be assessed at $280.00 per day for weekends and holidays for each on site inspector in travel status, but not engaged in inspection or travel activities when fabrication activities are not taking place.

SECTION 1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC
April 1, 2013

1-07.1 Laws to be Observed
The following two sentences are inserted after the first sentence in the third paragraph:

In particular the Contractor’s attention is drawn to the requirements of WAC 296.800 which requires employers to provide a safe workplace. More specifically WAC 296.800.11025 prohibits alcohol and narcotics from the workplace.

1-07.9(2) Posting Notices
This section is revised to read:

Notices and posters shall be placed in areas readily accessible to read by employees. The Contractor shall ensure the following are posted:


2. FHWA-1022 (revised 11/11) - NOTICE Federal-Aid Project published by Federal Highway Administration (FHWA). Post for projects with federal-aid funding
3. WH 1321 (revised 04/09) - Employee Rights under the Davis-Bacon Act published by US Department of Labor. Post for projects with federal-aid funding

4. WHD 1088 (revised 07/09) - Employee Rights under the Fair Labor Standards Act published by US Department of Labor. Post on all projects

5. WHD - 1420 (revised 01/09) - 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 01/12) – Employee Polygraph Protection Act published by US Department of Labor. Post on all projects

7. F416-081-909 (revised 12/12) - Job Safety and Health Law published by Washington State Department of Labor and Industries. Post on all projects

8. F242-191-909 (revised 12/12) - Notice to Employees published by Washington State Department of Labor and Industries. Post on all projects

9. F700-074-909 (revised 12/12) - 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 04/12) - Unemployment Benefits published by Washington State Employee Security Department. Post on all projects

11. Post one copy of the approved “Statement of Intent to Pay Prevailing Wages” for the Contractor, each Subcontractor, each lower tier subcontractor, and any other firm (Supplier, Manufacturer, or Fabricator) that falls under the provisions of RCW 39.12 because of the definition of “Contractor” in WAC 296-127-010

12. Post one copy of the prevailing wage rates for the project

1-07.9(5) Required Documents
Item number 2. in the first paragraph is revised to read:

2. A copy of an approved “Affidavit of Prevailing Wages Paid”, State L&I's form number F700-007-000. The Contracting Agency will not grant Completion until all approved Affidavit of Wages paid for Contractor and all Subcontractors have been received by the Project Engineer. The Contracting Agency will not release to the Contractor any funds retained under RCW 60.28.011 until all of the “Affidavit of Prevailing Wages Paid” forms have been approved by State L&I and a copy of all the approved forms have been submitted to the Engineer.

1-07.14 Responsibility for Damage
The fifth paragraph is revised to read:
Pursuant to RCW 4.24.115, if such claims, suits, or actions result from the concurrent negligence of (a) the indemnitee or the indemnitee's agents or employees and (b) the Contractor or the Contractor's agent or employees, the indemnity provisions provided in the preceding paragraphs of this Section shall be valid and enforceable only to the extent of the Contractor's negligence or the negligence of its agents and employees.

1-07.15 Temporary Water Pollution/Erosion Control
The third paragraph is deleted.

SECTION 1-08, PROSECUTION AND PROGRESS
April 1, 2013

1-08.1 Subcontracting
In the eighth paragraph, "Contracting Agency" is revised to read "WSDOT".

1-08.3(1) General Requirements
The following new paragraph is inserted after the first paragraph:

Total float belongs to the project and shall not be for the exclusive benefit of any party.

1-08.5 Time for Completion
The last paragraph in this section is supplemented with the following:

e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors

1-08.7 Maintenance During Suspension
The second paragraph is revised to read:

At no expense to the Contracting Agency, the Contractor shall provide through the construction area safe, smooth, and unobstructed roadways and pedestrian access routes for public use during the suspension (as required in Section 1-07.23 or the Special Provisions.) This may include a temporary road, alternative pedestrian access route or detour.

SECTION 1-09, MEASUREMENT AND PAYMENT
April 1, 2013

1-09.1 Measurement of Quantities
The following new sentence is inserted after the sentence ""Ton": 2,000 pounds of avoirdupois weight":

Items of payment that have "Lump Sum" or "Force Account" in the Bid Item of Work shall have no specific unit of measurement requirement.

1-09.2(5) Measurement
The second sentence in the first paragraph is revised to read:
The frequency of verification checks will be such that at least one test weekly is performed for each scale used in weighing contract items of Work.

1.09.6 Force Account
In item No. 3, For Equipment, the last sentence in the third sub-paragraph is revised to read:

In the event that prior quotations are not obtained and the vendor is a firm independent from the Contractor or Subcontractor, then after-the-fact quotations may be obtained by the Engineer from the open market in the vicinity and the lowest such quotation may be used in place of submitted invoice.

DIVISION 3
AGGREGATE PRODUCTION AND ACCEPTANCE

SECTION 3-01, PRODUCTION FROM QUARRY AND PIT SITES
August 5, 2013

3.01.1 Description
In the first paragraph, “asphalt treated base” is deleted.

SECTION 3-04, ACCEPTANCE OF AGGREGATE
August 5, 2013

3.04.3(7)D4 An Entire Lot
The last sentence is deleted.

3.04.3(8) Price Adjustments for Quality of Aggregate
The calculation in the first paragraph is revised to read:

Aggregate Compliance Price Adjustment = (Composite Pay Factor − 1.00) (quantity of material) (unit bid price or Contingent Unit Price as shown in Table 1, whichever is higher.)

3.04.5 Payment
In the second paragraph, the reference “Section 3-04.3(6)C “ is revised to read “Section 3-04.3(8)”.

In Table 1, the top two rows are revised to read the following three new rows:

<table>
<thead>
<tr>
<th>9-03.1</th>
<th>Concrete Aggregate (except pavement)</th>
<th>2000</th>
<th>1000</th>
<th>$15.00</th>
<th>$30.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-03.1</td>
<td>Concrete Aggregate (pavement)</td>
<td>4000</td>
<td>2000</td>
<td>$15.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>9-03.4</td>
<td>Crushed Screening</td>
<td>1000</td>
<td>500</td>
<td>$20.00</td>
<td>$40.00</td>
</tr>
</tbody>
</table>

In Table 1, the row containing the item “Gravel Borrow for Geosynthetic Retaining Wall” is revised to read:
The footnotes below the Table 1 are revised to read:

1. Based on 1000 CY of Concrete.

2. Price adjustment only applies to the actual quantity of aggregate used in the concrete.

3. Contingent unit price per S.Y. is $0.30.

In Table 2, the first row is revised to read:

| 9-03.1 | Concrete Aggregate (all concrete aggregate - including pavement) | 2 | 2 | 2 | 10 | 20 |

In Table 2, the row containing the item “Gravel Backfill for Foundations Class A” is revised to read:

| 9-03.12(1)A | Gravel Backfill for Foundations Class A³ |

In Table 2, the row containing the item “Gravel Borrow for Geosynthetic Retaining Wall” is revised to read:

| 9-03.14(4) | Gravel Borrow for Structural Earth Walls | 2 | 2 | 5 | 5 | 5 | 10 | Other⁴ |

Item 1 in the footnotes below Table 2 is revised to read:

1 For Aggregate, the nominal maximum size sieve is the largest standard sieve opening listed in the applicable specification upon which more than 1-percent of the material by weight is permitted to be retained. For concrete aggregate, the nominal maximum size sieve is the smallest standard sieve opening through which the entire amount of aggregate is permitted to pass.

The footnotes below the Table 2 are supplemented with the following:

3 Use the price adjustment factors for the material that is actually used.

4 Resistivity 10, pH 10, Chlorides 5, and Sulfates 5.
DIVISION 5
SURFACE TREATMENTS AND ACCEPTANCE

SECTION 5-04, HOT MIX ASPHALT
April 1, 2013

5-04.2 Materials
The following material reference is deleted from this section:

   Blending Sand  9-03.8(4)

The fourth paragraph is revised to read:

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

5-04.3(7)A1 General
This section is supplemented with the following:

   The Contractor shall include the brand and type of anti-stripping additive in the mix design
   submittal and provide certification from the asphalt binder manufacture that the anti-
   stripping additive is compatible with the crude source and formulation of asphalt binder
   proposed in mix design.

5-04.3(7)A3 Commercial Evaluation
The second sentence in the second paragraph is deleted.

5-04.3(10)B3 Longitudinal Joint Density
The section including title is revised to read:

   5-04.3(10)B3 Vacant

5-04.3(11)D General
The last sentence in the first paragraph is deleted.

5-04.3(12)A Transverse Joints
In the second paragraph “planning” is revised to read “planing”.

5-04.3(20) Anti-Stripping Additive
This section is revised to read:

   Anti-stripping additive shall be added to the liquid asphalt by the asphalt supplier prior to
   shipment to the asphalt mixing plant. For HMA accepted by statistical and nonstatistical
   evaluation the anti-stripping additive shall be added in the amount designated in the
   WSDOT mix design/anti-Strip evaluation report provided by the Contracting Agency. For
   HMA accepted by commercial evaluation the Project Engineer will determine the amount of
anti-strip to be added; paving shall not begin before the anti-strip requirements have been provided to the Contractor.

5-04.4 Measurement
The first sentence in the first paragraph is revised to read:

HMA Cl. ___ PG ___, HMA for ___ Cl. ___ PG ___, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the mixture.

The last paragraph is deleted.

5-04.5 Payment
The bid item “Longitudinal Joint Density Price Adjustment”, by calculation and paragraph following bid item are deleted.

DIVISION 6
STRUCTURES

6-02.AP6
SECTION 6-02, CONCRETE STRUCTURES
January 7, 2013

6-02.3(2) Proportioning Materials
The Lean Concrete value in the column “Minimum Cemeticious Content (pounds)” in the table titled “Cementitious Requirement for Concrete” is revised to read:

****145

The following new note is inserted after the note “*** No maximum specified” in the table titled “Cementitious Requirement for Concrete”:

****Maximum of 200 pounds

The paragraph following the table “Cementitious Requirements for Concrete” is revised to read:

When both ground granulated blast furnace slag and fly ash are included in the concrete mix, the total weight of both these materials is limited to 40 percent by weight of the total cementitious material for concrete Class 4000D and 4000A, and 50 percent by weight of the total cementitious material for all other classes of concrete.

6-02.3(2)B Commercial Concrete
The second paragraph is revised to read:

Where concrete Class 3000 is specified for items such as, culvert headwalls, plugging culverts, concrete pipe collars, pipe anchors, monument cases, Type PPB, PS, I, FB and RM
signal standards, pedestals, cabinet bases, guardrail anchors, fence post footings, sidewalks, curbs, and gutters, the Contractor may use commercial concrete. If commercial concrete is used for sidewalks, curbs, and gutters, it shall have a minimum cementitious material content of 564 pounds per cubic yard of concrete, shall be air entrained, and the tolerances of Section 6-02.3(5)C shall apply.

6-02.3(2)D Lean Concrete
This section is revised to read:

Lean concrete shall meet the cementitious requirements of Section 6-02.3(2) and have a maximum water/cement ratio of 2.

6-02.3(4)A Qualification of Concrete Suppliers
The first paragraph is revised to read:

Batch Plant Prequalification requires a certification by the National Ready Mix Concrete Association (NRMCA). Information concerning NRMCA certification may be obtained from the NRMCA at 900 Spring Street, Silver Springs, MD 20910 or online at www.nrmca.org. The NRMCA certification shall be valid for a 2-year period from the date of certificate. The following documentation shall be submitted to the Project Engineer; a copy of the current NRMCA Certificate of Conformance, the concrete mix design(s) (WSDOT Form 350-040), along with copies of the truck list, batch plant scale certification, admixture dispensing certification, and volumetric water batching devices (including water meters) verification.

6-02.3(5)G Sampling and Testing Frequency for Temperature, Consistency, and Air Control
The last sentence in the second paragraph is revised to read:

Sampling shall be performed in accordance with WSDOT FOP for WAQTC TM 2 and random samples shall be selected in accordance with WSDOT TM 716.

6-02.3(14)C Pigmented Sealer for Concrete Surfaces
This section is revised to read:

The Contractor shall submit the pigmented sealer manufacturer’s written instructions covering, at a minimum, the following:

1. Surface preparation
2. Application methods
3. Requirements for concrete curing prior to sealer application
4. Temperature, humidity and precipitation limitations for application
5. Rate of application and number of coats to apply

The Contractor shall not begin applying pigmented sealer to the surfaces specified to receive the sealer until receiving the Engineer's approval of the submittal.

All surfaces specified in the Plans to receive pigmented sealer shall receive a Class 2 surface finish (except that concrete barrier surfaces shall be finished in accordance with Section 6-02.3(11)A). The Contractor shall not apply pigmented sealer from a batch greater than 12 months past the initial date of color sample approval of that batch by the Engineer.

The pigmented sealer color or colors for specific concrete surfaces shall be as specified in the Special Provisions.

The final appearance shall be even and uniform without blotchiness, streaking or uneven color. Surface finishes deemed unacceptable by the Engineer shall be re-coated in accordance with the manufacturer's recommendations at no additional expense to the Contracting Agency.

For concrete surfaces such as columns, retaining walls, pier walls, abutments, concrete fascia panels, and noise barrier wall panels, the pigmented sealer shall extend to 1 foot below the finish ground line, unless otherwise shown in the Plans.

6-02.3(16) Plans for Falsework and Formwork

Item No. 4 in the seventh paragraph is revised to read:

4. Conditions required by other Sections of 6-02.3(17), Falsework and Formwork.

Item's No. 5, 6, 7, and 8 in the seventh paragraph are deleted.

The following paragraph is inserted after the seventh paragraph:

Plan approval can be done by the Project Engineer for footings and walls 4 to 8 feet high (excluding pedestal height) provided:

1. Concrete placement rate is 4 feet per hour or less.

2. Facing is 3/4-inch plywood with grades as specified per Section 6-02.3(17)I.

3. Studs, with plywood face grain perpendicular, are 2 by 4's spaced at 12 inches.

4. Walers with 3,000 pound safe working load ties spaced at 24 inches are two 2 by 4's spaced at 24 inches.

6-02.3(17)F Bracing

In the first paragraph, the phrase "per Section 6-02.3(17)I" is revised to read "in accordance with Section 6-02.3(17)I".
This section is supplemented with the following new sub-section:

6-02.3(17)F5 Temporary Bracing for Bridge Girders During Diaphragm and Bridge Deck Concrete Placement

Prestressed concrete girders shall be braced to resist forces that would cause rotation or torsion in the girders caused by the placing of precast concrete deck panels and concrete for the bridge deck.

Bracing shall be designed and detailed by the Contractor and shall be shown in the falsework/formwork plans submitted to the Engineer for approval. These braces shall be furnished, installed, and removed by the Contractor at no additional cost to the Contracting Agency. The Contractor may consider the bracing effects of the diaphragms in developing the falsework/formwork plans. The Contractor shall account for the added load from concrete finishing machines and other construction loadings in the design of the bracing.

Falsework support brackets and braces shall not be welded to structural steel bridge members or to steel reinforcing bars.

6-02.3(17)F4 Temporary Bracing for Bridge Girders

This section including title is revised to read:

6-02.3(17)F4 Temporary Bracing for Bridge Girders During Erection

Steel girders shall be braced in accordance with Section 6-03.3(7)A.

Prestressed concrete girders shall be braced sequentially during girder erection. The bracing shall be designed and detailed by the Contractor and shall be shown in the falsework/formwork plans submitted to the Engineer for approval. The Contractor shall furnish, install, and remove the bracing at no additional cost to the Contracting Agency.

At a minimum, the Contractor shall brace girders at each end and at midspan to prevent lateral movement or rotation. This bracing shall be placed prior to the release of each girder from the erection equipment. If the bridge is constructed with cast-in-place concrete diaphragms, the bracing may be removed once the concrete in the diaphragms has been placed and cured for a minimum of 24 hours.

6-02.3(17)H Formwork Accessories

The first paragraph is deleted and replaced with the following two new paragraphs:

Formwork accessories such as form ties, form anchors, form hangers, anchoring inserts, and similar hardware shall be specifically identified in the formwork plans including the name and size of the hardware, manufacturer, safe working load, and factor of safety. The grade of steel shall also be indicated for threaded rods, coil rods, and similar hardware. Wire form ties shall not be used. Welding or clamping formwork accessories to Contract Plan reinforcing steel will not be allowed. Driven types of anchorages for fastening forms or form
supports to concrete, and Contractor fabricated "J" hooks shall not be used. Field drilling of holes in prestressed girders is not allowed.

Taper ties may be used provided the following conditions are met:

1. The structure is not designed to resist water pressure (pontoons, floating dolphins, detention vaults, etc.)

2. After the taper tie is removed, plugs designed and intended for plugging taper tie holes shall be installed at each face of concrete. The plug shall be installed a minimum of 1 ½” clear from the face of concrete.

3. After the plug is installed, the hole shall be cleaned of all grease, contamination and foreign matter.

4. Holes on the exposed faces of concrete shall be patched and finished to match the surrounding concrete.

6-02.3(25)N Prestressed Concrete Girder Erection
The third sentence in the fifth paragraph is revised to read:

The girders shall be braced in accordance with Sections 6-02.3(17)F4 and 6-02.3(17)F5.

6-02.3(26)E5 Leak Tightness Testing
The first sentence in the first paragraph is revised to read:

The Contractor shall test each completed duct assembly for leak tightness after placing concrete but prior to placing post tensioning reinforcement.

The second paragraph is revised to read:

Prior to testing, all grout caps shall be installed and all vents, grout injection ports, and drains shall either be capped or have their shut-off valves closed. The Contractor shall pressurize the completed duct assembly to an initial air pressure of 50 psi. This pressure shall be held for five minutes to allow for internal adjustments within the assembly. After five minutes, the air supply valve shall be closed. The Contractor shall monitor and measure the pressure maintained within the closed assembly, and any subsequent loss of pressure, over a period of one minute following the closure of the air supply valve. The maximum pressure loss for duct assemblies equal to or less than 150 feet in length shall be 25 psig. The maximum pressure loss for duct assemblies greater than 150 feet in length shall be 15 psig. If the pressure loss exceeds the allowable, locations of leakage shall be identified, repaired or reconstructed using methods approved by the Engineer. The repaired system shall then be retested. The cycle of testing, repair and retesting of each completed duct assembly shall continue until the completed duct assembly completes a test with pressure loss within the specified amount.
DIVISION 7
DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND CONDUITS

SECTION 7-04, STORM SEWERS
August 6, 2012

7-04.3(1)B Exfiltration Test – Storm Sewers
The fifth column title “PE4” is revised to read “PP4” from the table titled, “Storm Sewer Pipe Schedules”.

Note 4 in the table titled, “Storm Sewer Pipe Schedules” is revised to read:

“PP = Polypropylene Pipe, 12 inch to 30 inch approved for Schedule A and Schedule B, 36 inch to 60 inch diameters approved for Schedule A only.

7-04.5
The bid item “Steel Rib Reinforced Polyethylene Storm Sewer Pipe _____ In Diam”, per linear foot is revised to read:

“St. Rib Reinf Polyethylene Storm Sewer Pipe _____ In. Diam”, per linear foot

7-05.AP7
Section 7-05, Manholes, Inlets, Catch Basins, and Drywells
April 2, 2012

7-05.3 Construction Requirements
The third paragraph is supplemented with the following:

Leveling and adjustment devices that do not modify the structural integrity of the metal frame, grate or cover, and do not void the originating foundry’s compliance to these specifications and warranty is allowed. Approved leveling devices are listed in the Qualified Products List. Leveling and adjusting devices that interfere with the backfilling, backfill density, grouting and asphalt density will not be allowed. The hardware for leveling and adjusting devices shall be completely removed when specified by the Project Engineer.

7-08.AP7
Section 7-08, General Pipe Installation Requirements
August 6, 2012

7-08.3(2)D Pipe Laying – Steel or Aluminum
The following new sentence is inserted after the first sentence in the second paragraph:

The paint shall cover all the surface in contact with the concrete and extend one inch beyond the point of contact.
DIVISION 8
MISCELLANEOUS CONSTRUCTION

SECTION 8-01, EROSION CONTROL AND WATER POLLUTION CONTROL
August 5, 2013

8-01.2 Materials
The first paragraph is revised to read:

Materials shall meet the requirements of the following sections:

- Corrugated Polyethylene Drain Pipe 9-05.1(6)
- Quarry Spalls 9-13
- Seed 9-14.2
- Fertilizer 9-14.3
- Mulch and Amendments 9-14.4
- Tackifiers 9-14.4(7)
- Erosion Control Devices 9-14.5
- High Visibility Fence 9-14.5
- Construction Geotextile 9-33

8-01.3(1) General
The last two sentences in the first paragraph are deleted.

In the seventh paragraph, “perimeter silt fencing” is revised to read “silt fencing”.

8-01.3(2)D Mulching
The following two new paragraphs are inserted after the fourth paragraph:

- Short-Term Mulch shall be hydraulically applied at the rate of 2500 pounds per acre and may be applied in one lift.
- Moderate-Term Mulch and Long-Term Mulch shall be hydraulically applied at the rate of 3500 pounds per acre with no more than 2000 pounds applied in any single lift.

8-01.3(2)E Soil Binders and Tacking Agents
This section including title is revised to read:

8-01.3(2)E Tackifiers
Tackifiers applied using a hydroteeder shall have a mulch tracer added to visibly aid uniform application. This tracer shall not be harmful to plant, aquatic, or animal life. A minimum of 125 pounds per acre and a maximum of 250 pounds per acre of Short-Term Mulch shall be used as a tracer. Tackifier shall be mixed and applied in accordance with the manufacturer’s recommendations.
Soil Binding Using Polyacrylamide (PAM) – The PAM shall be applied on bare soil completely dissolved and mixed in water or applied as a dry powder. Dissolved PAM shall be applied at a rate of not more than ½ pound per 1,000 gallons of water per acre. A minimum of 200 pounds per acre of Short-Term Mulch shall be applied with the dissolved PAM. Dry powder applications may be at a rate of 5 pounds per acre using a hand-held fertilizer spreader or a tractor-mounted spreader.

PAM shall be applied only to areas that drain to completed sedimentation control BMPs in accordance with the TESC Plan. PAM may be reapplied on actively worked areas after a 48-hour period.

PAM shall not be applied during rainfall or to saturated soils

8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch
In the first paragraph, “Engineer” is revised to read “Project Engineer”.

Note 1 of the table in the first paragraph is revised to read:

1 Where Contract timing is appropriate, seeding, fertilizing, and mulching shall be accomplished during the fall period listed above

The third paragraph is deleted.

8-01.3(3) Placing Erosion Control Blanket
This section including title is revised to read:

8-01.3(3) Placing Biodegradable Erosion Control Blanket
Biodegradable Erosion Control Blankets are used as an erosion prevention device and to enhance the establishment of vegetation. Erosion control blankets shall be installed according to the manufacturer’s recommendations.

Seeding and fertilizing shall be done prior to blanket installation.

Select erosion control blanket material for an area based on the intended function: slope or ditch stabilization, and site specific factors including soil, slope gradient, rainfall, and flow exposure. Erosion Control Blankets shall not be used on slopes or in ditches that exceed the manufacturer’s recommendations.

8-01.3(4) Placing Compost Blanket
This section is revised to read:

Compost blanket shall be placed to a depth of 3 inches over bare soil. Compost blanket shall be placed prior to seeding or other planting. An organic tackifier shall be placed over the entire composted area when dry or windy conditions are present or expected before the final application of mulch or erosion control blanket. The tackifier shall be applied immediately after the application of compost to prevent compost from leaving the composted area.
Compost shall be Medium Compost.

8-01.3(5) Placing Plastic Covering
This section including title is revised to read:

Plastic Covering
   Erosion Control - Plastic coverings used to temporarily cover stock piled materials, slopes or bare soils shall be installed and maintained in a way that prevents water from intruding under the plastic and prevents the plastic cover from blowing open in the wind. Plastic coverings shall be placed with at least a 12-inch overlap of all seams and be a minimum of 6 mils thick.

Containment - Plastic coverings used to line concrete washout areas, contain wastewaters, or used in secondary containment to prevent spills, shall be seamless to prevent infiltration and be a minimum of 10 mils thick.

Vegetation Management - Plastic covering placed over areas that have been seeded shall be clear and where vegetative growth is to inhibited it shall be black and be a minimum of 4 mils thick.

8-01.3(6) Check Dams
This section is revised to read:

Check dams are used as an erosion and sediment control device in channels or conveyance areas. Check dams shall be installed as soon as construction will allow, or when designated by the Project Engineer. The Contractor may substitute a different check dam material, in lieu of what is specified in the contract, with approval of the Project Engineer. Check dam materials shall meet the requirements in Section 9-14.5(4). Straw bales shall not be used as check dams. The check dam is a temporary or permanent structure, built across a minor channel placed perpendicular to the flow of water. Water shall not flow freely through the check dam structure. Check dams shall be constructed in a manner that creates a ponding area upstream of the dam to allow pollutants to settle, with water from increased flows channeled over a spillway in the check dam. The check dam shall be constructed to prevent erosion in the area below the spillway. The outer edges shall extend up the sides of the conveyance to prevent water from going around the check dam. Check dams shall be of sufficient height to maximize detention, without causing water to leave the ditch.

Wattles, coir logs and compost sock used as check dams shall not be trenched in and shall be installed as shown in the Standard Plans.

When wattles, coir logs, and compost socks are used as check dams they shall be measured and paid as check dam in accordance with Section 8-01.4 and 8-01.5.

8-01.3(6)A Geotextile-Encased Check Dam
This sections content including title is deleted.
8-01.3(6)B Quarry Spall Check Dam
This sections content including title is deleted.

8-01.3(6)C Sandbag Check Dam
This sections content including title is deleted.

8-01.3(6)D Wattle Check Dam
This sections content including title is deleted.

8-01.3(6)E Coir Log
This section including title and section number is revised to read:

8-01.3(6)A Coir Log
Coir logs are used as erosion and sediment control or bank stabilizing device. Coir logs shall be laid out, spaced, staked and installed in accordance with the Standard Plans.

Live stakes in accordance with Section 9-14.6(1) can be used in addition to, but not as a replacement for, wooden stakes.

8-01.3(7) Stabilized Construction Entrance
The first paragraph is revised to read:

Temporary stabilized construction entrance shall be constructed in accordance with the Standard Plans, prior to beginning any clearing, grubbing, embankment or excavation. All quarry spall material used for stabilized construction entrance shall be free of extraneous materials that may cause or contribute to track out.

8-01.3(9)A Silt Fence
This section and all sub-sections including title is revised to read:

8-01.3(9)A Fencing
8-01.3(9)A1 High Visibility Fencing
High visibility fencing (HVF) shall be orange in color and installed along the site preservation lines shown in the Plans or as specified by the Engineer. Post spacing and attachment of the fencing material to the posts shall be as shown in the Standard Plans and in accordance with Section 9-14.5(8). The HVF shall not be fastened to trees.

8-01.3(9)A2 Silt Fence
Silt fence shall be black in color and used as a sediment control device to prevent sediment laden water from leaving project boundaries, to manage stormwater within the site, or to create small detention areas. Silt fence shall be installed at locations shown in the Plans. The geotextile shall be securely attached to the posts and support system. Post spacing and attachments shall be as shown in Standard Plans.
Geotextile material shall meet the requirements of Section 9-33.2(1), Table 6 and be sewn together at the point of manufacture, or at a location approved by the Engineer, to form geotextile lengths as required. All sewn seams and overlaps shall be located at a support post.

Posts shall be either wood or steel. Wood posts shall have minimum dimensions of 1¼ by 1¼ inches by the minimum length shown in the Plans.

When sediment deposits reach approximately ½ the height of the silt fence, the deposits shall be removed and stabilized in accordance with Section 8-01.3(15).

If trenching is not feasible due to rocky soils or not advisable due to proximity to a downslope sensitive area, a different sediment control device that does not require trenching shall be used in place of silt fence.

Silt Fence with Backup Support
Where backup support is needed for silt fence in areas where extra strength may be required, such as the toe of steep cut or fill slopes or areas where equipment may push excessive soils toward the fence. When backup support is used, wire shall have a maximum mesh spacing of 2 inches, and the plastic mesh shall be as resistant to ultraviolet radiation as the geotextile it supports. The strength of the wire or plastic mesh shall be equivalent to or greater than as required in Section 9-33.2(1), Table 6, for unsupported geotextile (i.e., 180 lbs. grab tensile strength in the machine direction). Post spacing and attachments shall be as shown in Standard Plans.

8-01.3(9)A3 High Visibility Silt Fence
High visibility silt fence (HVSF) shall be orange in color and only be used for the dual purpose of demarcating site preservation lines and a sediment control device in a location where high visibility mesh fence and black silt fence would otherwise be used together at same location. If use of HVSF is allowed the geotextile material shall meet the material requirements of Section 9-33.2(1), Table 6. Post spacing and attachments shall be as shown in Standard Plans.

High Visibility Silt Fence with Backup Support
Where backup support is needed for high visibility silt fence (HVSF) in areas where extra strength may be required, such as the toe of steep cut or fill slopes or areas where equipment may push excessive soils toward the sensitive or protected areas. When backup support is used, wire shall have a maximum mesh spacing of 2 inches, and the plastic mesh shall be as resistant to ultraviolet radiation as the geotextile it supports. The strength of the wire or plastic mesh shall be equivalent to or greater than as required in Section 9-33.2(1), Table 6, for unsupported geotextile (i.e., 180 lbs. grab tensile strength in the machine direction). Post spacing shall be as shown in Standard Plans.
When sediment deposits reach approximately 1/3 the height of the silt fence, or 8 inches whichever is lower, the deposits shall be removed and stabilized in accordance with Section 8-01.3(15).

8-01.3(9)B Gravel Filter, Wood Chip, or Compost Berm

The first paragraph is revised to read:

Filter berms shall retain sediment and direct flows. The gravel filter berm shall be a minimum of 1 foot in height and shall be maintained at this height for the entire time they are in use. Rock material used for filter berms shall meet the grading requirements in Section 9-03.9(2), but shall not include any recycled materials as outlined in Section 9-03.21.

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

Compost shall be Medium Compost.

8-01.3(9)C Straw Bale Barrier

This section including title is revised to read:

8-01.3(9)C Vacant

8-01.3(10) Wattles

This section is revised to read:

Wattles are used as a flow control and sediment control device. Wattles shall be installed as soon as construction will allow or when designated by the Engineer. Wattle installation and trenching shall begin from the base of the slope and work uphill prior to any topsoil or compost placement. Excavated material from trenching shall be spread evenly along the uphill slope and be compacted using hand tamping or other method approved by the Engineer. On gradually sloped or clay-type soils trenches shall be 2 to 3 inches deep. On loose soils, in high rainfall areas, or on steep slopes, trenches shall be 3 to 5 inches deep, or half the thickness of the wattle, whichever is greater.

Wattles shall be laid out, spaced and staked in accordance with the Standard Plans. Live stakes in accordance with Section 9-14.6(1) can be used in addition to, but not as a replacement for, wooden stakes. If trenching and staking is not possible due to rocky soils, compost socks shall be used instead of wattles.

The Contractor shall exercise care when installing wattles to ensure the method of installation minimizes disturbance and prevents sediment or pollutant discharge into water bodies.

8-01.3(11) Vacant

This section including title is revised to read:
8-01.3(11) Outlet Protection
Outlet protection shall prevent scour at the outlets of ponds, pipes, ditches or other conveyances. All quarry spall material used for outlet protection shall be free of extraneous material and meet the gradation requirements in Section 9-13.6.

8-01.3(12) Compost Socks
This section is revised to read:

Compost socks are used as a flow control and sediment control device. Compost socks shall be installed as soon as construction will allow or when designated by the Project Engineer. Compost socks shall be installed prior to any mulching or compost placement. Compost socks shall be laced together end-to-end with coir rope or ends shall be securely overlapped to create a continuous length. Terminal ends of the continuous length shall be curved 2 to 4 feet upward into the slope to prevent concentrated flows from going around the terminal ends. Finished grades shall be of a natural appearance with smooth transitions. Compost for compost socks shall be Medium Compost.

Compost sock shall be laid out, spaced and staked in accordance with the Standard Plans. Live stakes in accordance with Section 9-14.6(1) can be used in addition to, but not as a replacement for, wooden stakes. If staking is not possible or if the compost sock is being used on concrete, heavy blocks or an equivalent item shall be used to weigh down and secure the sock. Compost socks shall be laid out, spaced and staked in accordance with the Standard Plans.

The Contractor shall exercise care when installing compost socks to ensure that the method of installation minimizes disturbance of waterways and prevents sediment or pollutant discharge into water bodies. Stakes shall be removed to minimize soil disturbance.

8-01.3(13) Temporary Curb
This section is revised to read:

Temporary curbs shall divert or redirect water around erodible soils.

Temporary curbs shall be installed along pavement edges to prevent runoff from flowing onto erodible slopes. Water shall be directed to areas where erosion can be controlled. The temporary curbs shall be a minimum of 4 inches in height. Ponding shall not be in roadways.

8-01.3(16) Removal
The first sentence in the first paragraph is revised to read:

When the Project Engineer determines that an erosion control BMP is no longer required, the Contractor shall remove the BMP and all associated hardware from the project limits.

The first and second sentences in the second paragraph are revised to read:
The Contractor shall remove BMPs and associated hardware in a way that minimizes soil disturbance. The Contractor shall permanently stabilize all bare and disturbed soil after removal of BMP’s.

8-01.4 Measurement
The third paragraph is revised to read:

Check dams will be measured per linear foot one time only along the completed check dam. No additional measurement will be made for check dams that are required to be rehabilitated or replaced due to wear.

The ninth paragraph is deleted.

The twelfth paragraph (after the preceding amendment is applied) is revised to read:

Seeding, fertilizing, liming, mulching, mowing, and tackifier will be measured by the acre by ground slope measurement or through the use of design data.

The fifteenth paragraph (after the preceding amendment is applied) is revised to read:

Fencing will be measured by the linear foot along the ground line of the completed fence.

This section is supplemented with the following:

Outlet Protection will be measured per each initial installation at an outlet location.

8-01.5 Payment
The paragraph following the bid item, “Plastic Covering”, per square yard is revised to read:

The unit Contract price per square yard for “Plastic Covering” shall be full payment to perform the Work as specified in Section 8-01.3(5) and as shown in the Plans, including removal and disposal at an approved disposal site.

The bid item “Straw Bale”, per each is deleted.

The bid item “___Erosion Control Blanket”, per square yard is deleted.

The bid item “Soil Binder or Tackling Agent”, per acre is deleted.

This section is supplemented with the following:

“Outlet Protection”, per each.
The unit Contract price per each for “Outlet Protection” shall be full payment for all costs incurred to complete the Work.

“Tackifier”, per acre.
The unit Contract price per acre for “Tackifier” shall be full payment for all costs incurred to complete the Work.

“Biodegradable Erosion Control Blanket”, per square yard. The unit Contract price per square yard for “Biodegradable Erosion Control Blanket” shall be full pay for all costs to complete the specified Work.

“High Visibility Silt Fence”, per linear foot.

SECTION 8-04, CURBS, GUTTERS, AND SPILLWAYS
April 2, 2012

8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways
This section is supplemented with the following new sub-section:

8-04.3(1)B Roundabout Cement Concrete Curb and Gutter
Roundabout cement concrete curb and gutter and roundabout splitter island nosing curb shall be shaped and finished to match the shape of the adjoining curb as shown in the Plans. All other requirements for cement concrete curb and cement concrete curb and gutter shall apply to roundabout cement concrete curb and gutter.

8-04.4 Measurement
This section is supplemented with the following:

Roundabout splitter island nosing curb will be measured per each.

8-04.5 Payment
The bid item, “Roundabout Truck Apron Cement Concrete Curb”, per linear foot is deleted.

This section is supplemented with the following:

“Roundabout Cement Concrete Curb and Gutter”, per linear foot
The unit Contract price per linear foot for “Roundabout Cement Concrete Curb and Gutter” shall be full payment for all costs for the Work including transitioning the roundabout cement concrete curb and gutter to the adjoining curb shape.

“Roundabout Splitter Island Nosing Curb”, per each.
The unit Contract price per each for “Roundabout Splitter Island Nosing Curb” shall be full payment for all costs for the Work including transitioning the roundabout splitter island nosing curb to the adjoining curb shape.

SECTION 8-20, ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL
August 5, 2013
8-20.3(4) Foundations

The first paragraph is revised to read:

Foundation concrete shall conform to the requirements for the specified class, be cast-in-place concrete and be constructed in accordance with Sections 6-02.2 and 6-02.3. Concrete for Type II, III, IV, V, and CCTV signal standards and light standard foundations shall be Class 4000P. Concrete for pedestals and cabinets, Type PPB, PS, I, FB, and RM signal standards and other foundations shall be Class 3000. Concrete placed into an excavation where water is present shall be placed using an approved tremie. If water is not present, the concrete shall be placed such that the free-fall is vertical down the center of the shaft without hitting the sides, the steel reinforcing bars, or the steel reinforcing bar cage bracing. The Section 6-02.3(6) restriction for 5-feet maximum free-fall shall not apply to placement of Class 4000P concrete into a shaft. Steel reinforcing bars for foundations shall conform to Section 9-07.

8-20.3(5) Conduit

This section content is deleted and replaced with the following new sub-sections:

8-20.3(5)A General

The ends of all conduit, metallic and nonmetallic, shall be reamed to remove burrs and rough edges. Field cuts shall be made square and true. The ends of unused conduits shall be capped. When conduit caps are removed, the threaded ends of metal conduit shall be provided with approved conduit bushings and non-metal conduit shall be provided with end bells.

Reducing couplings will not be permitted.

Existing conduit in place scheduled for installation of new conductor(s) shall first have any existing conductor(s) removed and a cleaning mandrel shall be pulled through. The existing conduit shall then be prepared subject to the same requirements outlined in this paragraph, for new conduit and innerduct, unless otherwise indicated in the plans. All new conduit and all innerduct shall be blown clean with compressed air. Then in the presence of the Engineer, an 80 percent sizing mandrel, correctly sized for the raceway, shall be pulled through to ensure that the raceway has not been deformed. This shall be done prior to pulling wire or fiber optic cable and after final assembly is in place. Existing conductor(s) shall be reinstalled unless otherwise indicated in the Plans.

As soon as the sizing mandrel has been pulled through innerduct, a 200-lb minimum tensile strength pull string shall be installed and attached to duct plugs at both ends. When conduit is installed for future use, as soon as the bushing or end bell has been installed and the sizing mandrel has been pulled through, the ground wire shall be installed and both ends shall be capped.

8-20.3(5)A1 Fiber Optic Conduit

Where conduit to contain fiber optic cable or conduit identified to contain future fiber optic cable is installed by open trenching, Detectable Underground Warning Tape shall
be placed 12-inches above the conduit unless otherwise detailed in the Plans. Detectable Underground Warning Tape shall extend 2-feet into boxes or vaults. Splicing of the tape shall be in accordance with tape manufacturer’s recommended materials and procedures. Location Wire shall be installed with all nonmetallic conduit that contains fiber optic cable and all conduits identified to contain future fiber optic cable. When open trenching is used, the location wire shall be placed in continuous lengths directly above the conduit. Where conduit is installed by other methods, the Location Wire shall be attached to the outside of the conduit with electrical tape placed at minimum 18-inch intervals. Location Wire shall extend 12-feet into boxes or vaults. Splices shall be crimped using a non-insulated butt splice, soldered and covered with moisture-blocking heat shrink.

8-20.3(5)A2 ITS and Cabinet Outer and Inner Duct Conduit

ITS conduit and both ends of conduit runs entering cabinets, with the exception of the ½ inch grounding conduit, shall be sealed with self expanding water proof foam or mechanical plugs; unless otherwise required. At other locations conduit shall be sealed with Duct Seal.

Outer-duct conduit with non factory assembled innerduct shall be sealed around the innerduct with self-expanding waterproof foam. Outer-duct conduit with factory assembled innerduct shall be sealed around the innerduct with a multiplex expansion plug. Innerduct containing one cable shall be plugged using an expandable split plug. Innerduct with multiple cables shall be sealed with self-expanding waterproof foam. Duct plugs shall be installed in all unused inner-ducts (those that are specified as empty) at the time of conduit installation. Duct plugs shall be installed in all used inner-ducts (as specified in the Plans), at the time of conduit installation, unless cable pulling for those inner-ducts will commence within 48-hours. Installation shall conform to the manufacturer’s recommendations.

Foam sealant shall be installed with the following additional requirements:

1. Penetration of the sealant into the conduit or duct shall be limited using a high temperature backer rod material or rag.
2. Penetration of the sealant into the conduit shall be limited to 1-inch.
3. The foam sealant shall not project outside the end of the conduit or duct.

Where open trenching is allowed and conduit with innerduct is installed, a maximum of 1000-feet of continuous open trench will be allowed unless otherwise approved by the Engineer.

8-20.3(5)B Conduit Type
Conduit shall be PVC, high density polyethylene (HDPE), rigid metal conduit (RMC) or liquid tight flexible metal depending on the application.

Rigid metal conduit (RMC) shall be installed at the following locations:
1. Within railroad right of way.

2. All pole risers, except when otherwise required by owning utilities.

3. All surface-mounted conduit, with the exception of electrical service utility poles.

4. All runs within slip form placed concrete.

Service lateral runs shall be Schedule 80 PVC except when otherwise required by owning utilities. Conduit installed using the plowing method, shall be schedule 80 high-density polyethylene (HDPE).

Conduit runs, including outer-duct, that enter the traveled way or shoulders, shall be Schedule 80 high-density polyethylene (HDPE), Schedule 80 PVC, or rigid metal conduit (RMC).

Conduit runs, including outer-duct, which do not enter the traveled way or shoulders, shall be Schedule 80 high-density polyethylene (HDPE), Schedule 40 PVC or rigid metal conduit (RMC).

Liquid tight flexible metal conduit is allowed only at locations called for in the Plans.

Except as described under Non-Metallic Conduit, unless otherwise indicated in the Plans or Standard Plans, the same type of conduit shall be used for the entire length of the run, from outlet to outlet.

Innerduct shall have a smooth wall non ribbed interior surface, with factory pre-lubricated coating.

Innerduct within the Traveled Way or Shoulders and innerduct which is not factory installed shall be schedule 40 high-density polyethylene (HDPE). The innerduct shall be continuous with no splices. Innerduct which is pulled into the outer duct in the field shall be installed with an extra 2 feet of conduit beyond each end of the outer-duct and shall be allowed to finish contracting for 21 calendar days before it is terminated. Innerduct shall be terminated with end bells flush to ¼ inch out of the outer-duct and the space between the outer-duct and innerduct shall be sealed with rodent and moisture resistant foam designed for this application and installed in accordance with the manufacturer’s recommendations.

8-20.3(5)B1 Rigid Metal Conduit

Slip joints or running threads will not be permitted for coupling metallic conduit; however, running threads will be permitted in traffic signal head spiders and rigid metal conduit (RMC) outer-duct. When installing rigid metal conduit (RMC), if a standard coupling cannot be used, an approved three-piece coupling shall be used. Conduit bodies, fittings and couplings for rigid metal conduit (RMC) shall be cleaned first and then painted with one coat of paint conforming to Section 9-08.1(2)B. The paint shall
have a minimum wet film thickness of 3-mils. The painted coating shall cover the entire coupling or fitting. The threads on all metal conduit shall be rust-free, clean, and painted with colloidal copper suspended in a petroleum vehicle before couplings are made. All metallic couplings shall be tightened so that a good electrical connection will be made throughout the entire length of the conduit run. If the conduit has been moved after assembly, it shall be given a final tightening from the ends prior to backfilling.

Rigid metal conduit (RMC) ends shall be terminated with grounded end bushings. Rigid metal conduit (RMC) entering cable vaults or pull boxes shall extend 2-inches beyond the inside wall face. (for the installation of grounded end bushing and bonding.)

Rigid metal conduit (RMC) entering concrete shall be wrapped in 2-inch-wide pipe wrap tape with a minimum 1-inch overlap for 12-inches on each side of the concrete face. Pipe wrap tape shall be installed in accordance with the manufacturer's recommendations.

Rigid metal conduit (RMC) bends shall have a radius consistent with the requirements of Code Article 344.24 and other articles of the Code. Where factory bends are not used, conduit shall be bent, using an approved conduit bending tool employing correctly sized dies, without crimping or flattening, using the longest radius practicable.

Where the coating on galvanized conduit has been damaged in handling or installing, such damaged areas shall be thoroughly painted with paint conforming to Section 9-08.1(2)(B).

Metal conduit ends shall be threaded and protected with a snug fitting plastic cap that covers the threads until wiring is started.

8-20.3(S)B2 Non-Metallic Conduit
Where non-metallic conduit is installed, care shall be used in excavating, installing, and backfilling, so that no rocks, wood, or other foreign material will be left in a position to cause possible damage.

PVC conduit ends shall be terminated with end bell bushings. PVC or HDPE conduit entering cable vaults and pull boxes shall terminate with the end bell flush with the inside walls of the Structure.

Non-metallic conduit bends, where allowed, shall conform to Article 352.24 of the Code. Eighteen-inch radius elbows shall be used for PVC conduit of 2-inch nominal diameter or less. Standard sweep elbows shall be used for PVC conduit with greater than 2-inch nominal diameter unless otherwise specified in the Plans. In nonmetallic conduit less than 2-inch nominal diameter, pull ropes or flat tapes for wire installation shall be not less than ¼-inch diameter or width. In nonmetallic conduit of 2-inch nominal diameter or larger, pull ropes or flat tapes for wire installation shall be not less than ½-inch diameter or width. When HDPE conduit is used for directional boring, it shall be continuous, with no joints, for the full length of the bore. The conduit run shall
be extended to the associated outlets with the same schedule HDPE or PVC conduit. Entry into associated junction box outlets shall be with the same schedule PVC conduit and elbows. The same requirements apply for extension of an existing HDPE conduit crossing.

PVC conduit and elbows shall be connected to HDPE conduit with an approved mechanical coupling. The connection shall have minimum pullout strength of 700-pounds. Prior to installation of a mechanical coupling, the HDPE conduit shall first be prepared with a clean, straight edge. A water-based pulling lubricant may be applied to the threaded end of the mechanical coupling before installation. Solvent cement or epoxy shall not be used on the threaded joint when connecting the HDPE conduit to the mechanical coupling. The mechanical coupling shall be rotated until the HDPE conduit seats approximately \( \frac{3}{4} \) of the distance into the threaded coupling depth.

For PVC installation through a directional bore, the PVC shall be in rigid sections assembled to form a watertight bell and spigot-type mechanical joint with a solid retaining ring around the entire circumference of the conduit installed in accordance with the manufacturer’s recommendations. The conduit run shall be extended beyond the length of the bore, to the associated outlets with the same mechanical coupled PVC or with standard PVC conduit of the same schedule. The same requirements apply for extension of an existing PVC conduit Roadway crossing.

PVC conduit shall be assembled using the solvent cement specified in Section 9-29.1.

Conduit ends shall be protected with a snug fitting plastic cap until wiring is started.

Conduit caps, end bells and the section of PVC between the coupling and end bell bushing in cabinet foundations shall be installed without glue.

8-20.3(5)C Conduit Size
The size of conduit used shall be as shown in the Plans. Conduits smaller than 1-inch electrical trade size shall not be used unless otherwise specified, except that grounding conductors at service points may be enclosed in \( \frac{1}{2} \)-inch-diameter conduit.
Conduit between light standards, PPB, PS, or Type 1 poles and the nearest junction box shall be the diameter specified in the Plans. Larger size conduit is not allowed at these locations. At other locations it shall be the option of the Contractor, at no expense to the Contracting Agency, to use larger size conduit if desired, provided that junction box or vault capacity is not exceeded. Where larger size conduit is used, it shall be for the entire length of the run from outlet to outlet.
Conduit runs with innerduct, shall have 4-inch outer-duct and shall be installed with four 1-inch innerduct unless otherwise indicated in the plans.

8-20.3(5)D Conduit Placement
Conduit shall be laid so that the top of the conduit is a minimum depth of:

1. 24-inches below the bottom of curb in the sidewalk area.
2. 24-inches below the top of the roadway base.

3. 48-inches below the bottom of ties under railroad tracks unless otherwise specified by the railroad company.

4. 36-inches below finish grade when installed using conduit plowing method.

5. 24-inches below the finish grade in all other areas.

Conduit entering through the bottom of a junction box shall be located near the end walls to leave the major portion of the box clear. At all outlets, conduit shall enter from the direction of the run, terminating 6 to 8-inches below the junction box lid and within 3-inches of the box wall nearest its entry location.

Conduit runs shown in the Plans are for Bidding purposes only and may be relocated with approval of the Engineer, to avoid obstructions.

8-20.3(5)D1 Surface Mounting
Where surface mounting of conduit is required, supports shall consist of channel with clamps sized for the conduit. Support spacing shall comply with the Code, with the exception that spacing of channel supports for conduit shall not exceed 5-feet.
The minimum distance between adjacent clamps and between the clamp and the end of the channel supports shall be 1-inch. Channel supports shall be installed with stops, to prevent clamps from sliding out of the ends.

8-20.3(5)D2 Structures
All conduits attached to or routed within bridges, retaining walls, and other structures shall be equipped with approved expansion, deflection, and/or combination expansion/deflection fittings at all expansion joints and at all other joints where structure movement is anticipated, including locations where the Contractor, due to construction method, installs expansion and/or construction joints with movement. All conduit fittings shall have movement capacity appropriate for the anticipated movement of the Structure at the joint. Approved deflection fittings shall also be installed at the joint between the bridge end and the retaining wall end, and the transition from bridge, wall, or other structure to the underground section of conduit pipe.

8-20.3(5)E Method of Conduit Installation
Conduit shall be placed under existing pavement by approved directional boring, jackig, or drilling methods at locations approved by the Engineer. The pavement shall not be disturbed unless allowed in the Plans or with the approval of the Engineer in the event obstructions or impenetrable soils are encountered. High density polyethylene (HDPE) conduit runs, which enter the traveled way or shoulders, shall be installed using the directional boring method.

8-20.3(5)E1 Open Trenching
When open trenching is allowed, trench construction shall conform to the following:
1. The pavement shall be saw-cut a minimum of 3-inches deep. The cuts shall be parallel to each other and extend 2-feet beyond the edge of the trench.

2. Pavement shall be removed in an approved manner.

3. Trench depth shall provide a minimum cover for conduit of 24-inches below the top of the roadway base.

4. Trench width shall be 8-inches or the conduit diameter plus 2-inches, whichever is larger.

5. Trenches located within paved Roadway areas shall be backfilled with Controlled density fill (CDF) meeting the requirements of Section 2-09.3(1)E. The controlled density fill shall be placed level to, and at the bottom of, the existing pavement. The pavement shall be replaced with paving material that matches the existing pavement.

6. On new construction, conduit shall be placed prior to placement of base course pavement.

8-20.3(5)E2 Conduit Plowing

All conduit plowing shall be supervised by a licensed electrical Contractor. The starting point shall be anchored or held such that conduit movement at the start of the plowing operation is kept to a minimum. The conduit reel shall be mounted on the vehicle such that conduit movement is kept to a minimum once it is in the ground. Use of a stationary reel is not allowed. The feed shoe shall have rollers which conform to the conduit at a radius of not less than 15 times the diameter of the conduit. The conduit will not be permitted to pass over stationary guides nor over rollers or sheaves, which will permit a bend radius of less than 15 times conduit diameter. The width of the tooth and feed shoe shall not exceed the conduit diameter by more than 2-inches. The conduit shall be installed using a continuous reel, with no joints, for the full length of the conduit run, unless conduit splicing is allowed as indicated below.

If an obstruction is encountered that cannot be plowed through, the following remedies shall be attempted in order:

1. Contractor shall stop the plowing operation and attempt to remove the obstruction. If the obstruction is removed, plowing operations shall continue along the approved path.

2. Deviations of up to one foot from the projected path may be authorized by the Engineer, provided the new route does not result in total conduit run bends exceeding NEC requirements. Deviations in excess of one foot from the projected path are not allowed and the maximum taper rate is 1-inch per linear foot of conduit.
3. The Contractor may request approval to intercept the installed conduit and route another section of HDPE to avoid the obstruction, provided the new route does not result in total conduit run bends exceeding NEC requirements. Connection between the sections shall be accomplished using an approved fusion splicing method, which is compatible with the conduit manufacturer’s recommendations.

4. Where none of the above remedies are successful, all conduit installed so far in that run shall be removed and a new plow path established to avoid the obstruction.

In the event of a breakage, all conduit installed in that run shall be removed.

The conduit run shall be extended to the associated outlets, subject to the same requirements indicated when HDPE is installed using the directional boring method.

The depth of installation shall be continually adjusted as necessary to compensate for changes in terrain.

Plowed conduit shall be laid so that the top of the conduit is a minimum depth of 36-inches below the finish grade with the exception that the conduit shall be swept up to enter the knock outs of associated pull boxes or cable vaults.

The plow placing the conduit shall be marked at a proper distance above the plow’s conduit exit point to indicate when the minimum installation depth is not met. The mark shall be visible from a safe distance from the plowing operation when it is exposed above ground. While plowing this mark must remain below ground level at all times, with the exception of the entry and exit points at the end of the run, in order to ensure that minimum burial depth of the conduit is achieved.

If the depth mark on the plow comes above ground, the Contractor shall stop the plowing operation and attempt to correct the placement depth. If the conduit depth can be verified to meet the minimum burial requirements at the location where the depth mark came above ground, the plowing operation shall resume subject to the Engineer's approval.

The compacted surface shall be firm, non-yielding, and result in a finished surface that matches the lines and grades of the terrain prior to plowing.

8-20.3(5)E3 Boring
Bore pits shall be backfilled and compacted in accordance with Section 2-09.3(1)E. Directional boring, jacking or drilling pits shall be a minimum of 2-feet from the edge of any type of pavement, unless otherwise approved by the engineer. Excessive use of water that might undermine the pavement or soften the Subgrade will not be permitted.
When approved by the Engineer, small test holes may be cut in the pavement to locate obstructions. When the Contractor encounters obstructions or is unable to install conduit because of soil conditions, as determined by the Engineer, additional Work to place the conduit will be paid in accordance with Section 1-04.4.

8-20.3(5)E4 Directional Boring
Directional boring for electrical installations shall be supervised by a licensed electrical contractor in accordance with Section 8-20.1(1). Where directional boring is called for, conduit shall be installed using a surface-launched, steerable drilling tool. Drilling shall be accomplished using a high-pressure fluid jet tool-head. The drilling fluid shall be used to maintain the stability of the tunnel, reduce drag on the conduit, and provide backfill between the conduit and tunnel. A guidance system that measures the depth, lateral position, and roll shall be used to guide the tool-head when creating the pilot hole. Once the pilot hole is established, a reamer and swivel shall be used to install the conduit. Reaming diameter shall not exceed 1.5 times the diameter of the conduits being installed. Conduit that is being pulled into the boring shall be installed in such a manner that the conduit is not damaged during installation. The pullback force on the conduit shall be controlled to prevent damage to the conduit. A vacuum spoils extraction system shall be used to remove any excess spoils generated during the installation. Excess drilling fluid and spoils shall be disposed of. The method and location used for disposal of excess drilling fluid and spoils shall be subject to the Engineer’s approval. Drilling fluid returns (caused by fracturing of formations) at locations other than the entry and exit points shall be minimized. Any drilling fluid that surfaces through fracturing shall be cleaned up immediately. Mobile spoils-removal equipment capable of quickly removing spoils from entry or exit pits and areas with returns caused by fracturing shall be used as necessary during drilling operations.

8-20.3(5)E5 Boring with Casing
Where boring with casing is called for, the casing shall be placed using an auger inside the casing to remove the soil as the casing is jacked forward. The auger head shall proceed no more than 4-inches ahead of the pipe being jacked. Boring operations shall be conducted to prevent caving ahead of the pipe. Installed casing pipe shall be free from grease, dirt, rust, moisture, and any other deleterious contaminants.

The space between the conduit and casing shall be plugged with sandbags and a grout seal 12-inches thick at each end of the casing. Casing abandoned due to an encountered obstruction shall be grout sealed in the same manner. Grout shall conform to Section 9-20.3(4).

In lieu of sandbags and grout, unopened prepackaged concrete and grout may be used to seal the casing.

Material shall not be removed from the boring pit by washing or sluicing.
All joints shall be welded by a Washington State certified welder. Welding shall conform to AWS D 1.1-80 Structural Welding Code, Section 3, Workmanship.
8-20.3(8) Wiring
The fifteenth through seventeenth paragraphs are revised to read:

When conductors, either cable or single, are being installed, the Contractor shall not exceed the tension limitations recommended by the manufacturer. Conductors may be pulled directly by hand, or with mechanical assistance. If conductors are pulled by any mechanical means, a dynamometer with drop-needle hand shall be used on every mechanically assisted pull.

On mechanically assisted pulls, insulation shall be stripped off the individual conductor and the conductor formed into a pulling eye and firmly attached to the pulling rope/tape, or a cable grip shall be used. The Contractor shall determine the maximum allowable pulling tension, taking into account the direction of the pull, type of raceway, cable geometry, weight of the cable, the coefficient of friction, and side wall pressure, using the information from the cable manufacturer. If there are bends in the raceway or sheaves are used for the cable pull, the Contractor shall use the cable manufacturer’s side wall pressure limits to determine the maximum pulling tension. The maximum pulling force applied directly to the conductor when pulling eyes are used or when the conductor is formed into a loop, shall be limited to that shown in the following table for copper conductor. When a cable grip is applied over nonmetallic sheathed cables, the maximum pulling force shall be limited to 1,000-pounds provided this is not in excess of the force as determined above.

<table>
<thead>
<tr>
<th>Conductor</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>132</td>
</tr>
<tr>
<td>6</td>
<td>210</td>
</tr>
<tr>
<td>4</td>
<td>334</td>
</tr>
<tr>
<td>3</td>
<td>421</td>
</tr>
<tr>
<td>2</td>
<td>531</td>
</tr>
<tr>
<td>1</td>
<td>669</td>
</tr>
<tr>
<td>1/0</td>
<td>845</td>
</tr>
<tr>
<td>2/0</td>
<td>1,065</td>
</tr>
<tr>
<td>3/0</td>
<td>1,342</td>
</tr>
<tr>
<td>4/0</td>
<td>1,693</td>
</tr>
<tr>
<td>-----</td>
<td>-------</td>
</tr>
<tr>
<td>250Kcmil</td>
<td>2,000</td>
</tr>
<tr>
<td>500Kcmil</td>
<td>4,000</td>
</tr>
</tbody>
</table>

Adequate lubrication of the proper type to reduce friction in conduit and duct pulls shall be utilized. The grease and oil-type lubricants used on lead sheathed cables shall not be used on nonmetallic sheathed cables.

8-20.3(9) Bonding, Grounding

The first sentence in the second paragraph is replaced with the following two sentences:

All conduit installed shall have an equipment ground conductor installed in addition to the conductors noted in the Contract. Conduit with innerducts shall have an equipment ground conductor installed in each innerduct that has an electrical conductor.

SECTION 8-21, PERMANENT SIGNING

January 7, 2013

8-21.2 Materials

The third sentence is revised to read:

Materials for sign mounting shall conform to Section 9-28.11.

8-21.3(9)A Fabrication of Steel Structures

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

Fabrication shall conform to the applicable requirements of Section 6-03 and 9-06.

This section is supplemented with the following:

All fabrication, including repairs, adjustments or modifications of previously fabricated sign structure members and connection elements, shall be performed in the shop, under an Engineer approved shop drawing prepared and submitted by the Contractor for the original fabrication or the specific repair, adjustment or modification. Sign structure fabrication repair, adjustment or modification of any kind in the field is not permitted. If fabrication repair, adjustment or modification occurs after a sign structure member or connection element has been galvanized, the entire member or element shall be re-galvanized in accordance with AASHTO M 111.

8-21.3(9)B Vacant

This section including title is revised to read:
8-21.3(9)B Erection of Steel Structures

Erection shall conform to the applicable requirements of Sections 6-03 and 8-21.3(9)F. Section 8-21.3(9)F notwithstanding, the Contractor may erect a sign bridge prior to completion of the shaft cap portion of one foundation for one post provided the following conditions are satisfied:

1. The Contractor shall submit design calculations and working drawings of the temporary supports and falsework supporting the sign bridge near the location of the incomplete foundation to the Engineer for approval in accordance with Section 6-01.9. The submittal shall include the method of releasing and removing the temporary supports and falsework without inducing loads and stress into the sign bridge.

2. The Contractor shall submit the method used to secure the anchor bolt array in proper position with the sign bridge while casting the shaft cap concrete to complete the foundation.

3. The Contractor shall erect the sign bridge and temporary supports and falsework, complete the remaining portion of the incomplete foundation, and remove the temporary supports and falsework, in accordance with the working drawing submittals as approved by the Engineer.

8-21.3(9)F Foundations

The following new paragraph is inserted after the second paragraph:

Concrete placed into an excavation where water is present shall be placed using an approved tremie. If water is not present, the concrete shall be placed such that the free-fall is vertical down the center of the shaft without hitting the sides, the steel reinforcing bars, or the steel reinforcing bar cage bracing. The Section 6-02.3(6) restriction for 5-feet maximum free-fall shall not apply to placement of Class 4000P concrete into a shaft.

The ninth paragraph (after implementing the preceding Amendment) is replaced with the following three new paragraphs:

After construction of concrete foundations for sign bridge and cantilever sign structures, the Contractor shall survey the foundation locations and elevations, the anchor bolt array locations and lengths of exposed threads. The Contractor shall confirm that the survey conforms to the sign structure post, beam, span and foundation design geometry shown in the Plans, and shall identify any deviations from the design geometry shown in the Plans. When deviations are identified, the Contractor shall notify the Engineer, and such notice shall be accompanied by the Contractor’s proposed method(s) of addressing the deviations, including removal and reconstruction of the shaft cap portion of the affected concrete foundation as outlined in this Section, or fabrication repair, adjustment or modification, with associated shop drawings, in accordance with Section 8-21.3(9)A.
If the Contractor’s survey indicates that a concrete foundation has been constructed incorrectly for a sign structure that has already been fabricated, the Contractor may remove and reconstruct the shaft cap portion of the foundation, in accordance with Section 1-07.13, provided the following conditions are satisfied:

1. The Contractor shall submit the method and equipment to be used to remove the portion of the concrete foundation to be removed and reconstructed to the Engineer for approval in accordance with Section 1-05.3. The submittal shall include confirmation that the equipment and the method of operation is appropriate to ensure that the existing anchor bolt array and primary shaft vertical steel reinforcing bars will not be damaged.

2. All steel reinforcing bars, except for steel reinforcing bars extending from the bottom portion of the foundation to remain, shall be removed and disposed of in accordance with Sections 2-02.3 and 2-03.3(7)C, and shall be replaced with new steel reinforcing bars conforming to the size, dimensions and geometry shown in the Plans. All concrete of the removed portion of the foundation shall be removed and disposed of in accordance with Sections 2-02.3 and 2-03.3(7)C.

3. The Contractor shall adjust the primary shaft vertical steel reinforcing bars as necessary in accordance with Section 6-02.3(24)C to provide clearance for the anchor bolt array.

Sign structures shall not be erected on concrete foundations until the Contractor confirms that the foundations and the fabricated sign structures are either compatible with each other and the design geometry shown in the Plans, or have been modified in accordance with this Section and as approved by the Engineer to be compatible with each other, and the foundations have attained a compressive strength of 2,400-psi.

Item number 4 in the twelfth paragraph (after implemented the preceding Amendments) is revised to read:

4. Concrete shall be Class 4000P, except as otherwise specified. The concrete for the shaft cap (the portion containing the anchor bolt array assemblies above the construction joint at the top of the shaft) shall be Class 4000.

Item number 3 in the thirteenth paragraph (after implemented the preceding Amendments) is revised to read:

3. Unless otherwise shown in the Plans, concrete shall be Class 4000P.

8-21.5 Payment

This section is supplemented with the following:

All costs in connection with surveying completed concrete foundations for sign bridges and cantilever sign structures shall be included in the lump sum contract price for “Structure
Surveying", except that when no Bid item is included in the Proposal for “Structure
Surveying” then such costs shall be included in the lump sum contract price(s) for “Sign
Bridge No. ___” and “Cantilever Sign Structure No. ___”.

SECTION 8-22, PAVEMENT MARKING
January 7, 2013

8-22.3(3)D Line Applications
The last paragraph is supplemented with the following:

Grooved line pavement marking shall not be constructed on bridge decks or on bridge
approach slabs.

8-22.3(6) Removal of Pavement Markings
The following two new sentences are inserted after the first sentence:

Grinding to remove painted markings is not allowed. Grinding to remove plastic marking is
allowed to a depth just above the pavement surface, then water blasting or shot blasting shall
be required to remove the remaining markings.

8-22.4 Measurement
The items “Painted Wide Line” and “Plastic Wide Line” are deleted from the fourth paragraph.

The sixth paragraph is revised to read:

Diagonal lines used to delineate parking stalls that are constructed of painted or plastic 4-
inch lines will be measured as “Paint Line” or “Plastic Line” by the linear foot of line
installed. Crosswalk line will be measured by the square foot of marking installed.

The following two new paragraphs are inserted after the sixth paragraph:

Crosshatch markings used to delineate median and gore areas will be measured by the
completed linear foot as “Painted Crosshatch Marking” or “Plastic Crosshatch Marking”.

The measurement for “Painted Crosshatch Marking” and for “Plastic Crosshatch Marking”
will be based on the total length of each 8-inch or 12-inch wide line installed.

8-22.5 Payment
The bid items “Painted Wide Line”, per linear foot and “Plastic Wide Line”, per linear foot are
deleted from this section.

This section is supplemented with the following two new bid items:

“Painted Crosshatch Marking”, per linear foot.
“Plastic Crosshatch Marking”, per linear foot.
The following new paragraph is inserted after the last bid item in this section:

The unit Contract price for the aforementioned Bid items shall be full payment for all costs to perform the Work as described in Section 8-22.

DIVISION 9
MATERIALS

SECTION 9-02, BITUMINOUS MATERIALS
August 5, 2013

In this section, “Asphalt Emulsion” is revised to read “Emulsified Asphalt”.

9-02.1 Asphalt Material, General
In this section, “Cationic Emulsified Asphalt” is revised to read “Emulsified Asphalt”.

The first paragraph is revised to read:

Asphalt furnished under these Specifications shall not have been distilled at a temperature high enough to produce flecks of carbonaceous matter, and upon arrival at the Work, shall show no signs of separation into lighter and heavier components.

9-02.1(6) Cationic Emulsified Asphalt
The “Cationic Emulsified Asphalt Table” is revised to read:

<table>
<thead>
<tr>
<th>Cationic Emulsified Asphalt Table</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Tests on Emulsified Asphalts:</td>
</tr>
<tr>
<td>Viscosity SFS @ 77°F (25°C)</td>
</tr>
<tr>
<td>Viscosity SFS @ 122°F (50°C)</td>
</tr>
<tr>
<td>Storage stability test 1 day %</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>Demulsibility 35 ml</td>
</tr>
<tr>
<td>0.8% sodium dioctyl</td>
</tr>
<tr>
<td>Sulfo succinate, %</td>
</tr>
<tr>
<td>Particle charge test</td>
</tr>
<tr>
<td>Sieve Test, %</td>
</tr>
<tr>
<td>Cement mixing test, %</td>
</tr>
<tr>
<td>Distillation</td>
</tr>
<tr>
<td>Oil distillate by vol. of emulsions %</td>
</tr>
<tr>
<td>Residue, %</td>
</tr>
<tr>
<td>Tests on residue from distillation tests:</td>
</tr>
<tr>
<td>Penetration, 77°F (25°C)</td>
</tr>
<tr>
<td>Ductility, 77°F (25°C)</td>
</tr>
</tbody>
</table>
5 cm/min., cm

| Solubility in trichloroethylene, % | T 44 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 |

\(^a\) The demulsibility test shall be made within 30 days from date of shipment.

\(^b\) If the particle charge test for CSS-1 and CSS-1h is inconclusive, material having a maximum pH value of 6.7 will be acceptable.

9-02.1(6)A Polymerized Cationic Emulsified Asphalt CRS-2P

The first paragraph (except for the table) is revised to read:

CRS-2P shall be a polymerized cationic emulsified asphalt. The polymer shall be milled into the asphalt or emulsion during the manufacturing of the emulsified asphalt. CRS-2P shall meet the following requirements:

Footnote 1 below the table is revised to read:

1. Distillation modified to use 300 grams of emulsified asphalt heated to 350°F ± 9°F and maintained for 20 minutes.

9-02.1(8) Flexible Bituminous Pavement Marker Adhesive

The fifth row in the table is revised to read:

| Ductility, 39.2°F, 1 cm/minute, cm | AASHTO T 51 | 5 Min. |

9-02.4 Anti-Stripping Additive

This section is revised to read:

Anti-stripping additive shall be a product listed in the current WSDOT Qualified Products List (QPL).

SECTION 9-03, AGGREGATES

August 5, 2013

9-03.1(1) General Requirements

The eighth paragraph is deleted.

9-03.6 Aggregate for Asphalt Treated Base (ATB)

This section including title is deleted in its entirety and replaced with the following:
9-03.13 Backfill for Sand Drains
This section is supplemented with the following:

That portion of backfill retained on a No. 4 sieve shall not contain more than 0.05 percent by weight of wood waste.

9-03.13(1) Sand Drainage Blanket
The last paragraph is revised to read:

That portion of backfill retained on a No. 4 sieve shall not contain more than 0.05 percent by weight of wood waste.

9-03.14(1) Gravel Borrow
Note ¹ is deleted, including the reference in the table.

9-03.14(2) Select Borrow
Note ¹ is deleted.

Note ² is re-numbered Note ¹, including the reference in the table.

9-03.14(4) Gravel Borrow for Geosynthetic Retaining Wall
This section including title is revised to read:

Gravel Borrow for Structural Earth Wall
All backfill material within the reinforced zone for structural earth walls shall consist of granular material, either naturally occurring or processed, and shall be free draining, free from organic or otherwise deleterious material. The material shall be substantially free of shale or other soft, poor durability particles, and shall not contain recycled materials, such as glass, shredded tires, portland cement concrete rubble, or asphaltic concrete rubble. The backfill material shall meet the following requirements for grading and quality:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Geosynthetic Reinforcement Percent Passing</th>
<th>Metallic Reinforcement Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>99-100</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>75-100</td>
</tr>
<tr>
<td>1 ¾ &quot;¹</td>
<td>99-100</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>90-100</td>
<td></td>
</tr>
<tr>
<td>No. 4</td>
<td>50-80</td>
<td>50-80</td>
</tr>
</tbody>
</table>

C 3288 Terrace Heights Dr & Butterfield Rd Signalization Page 55 Amendments
<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Geosynthetic Reinforcement Requirements</th>
<th>Metallic Reinforcement Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Los Angeles Wear 500 rev.</td>
<td>AASHTO T 96</td>
<td>35 percent max.</td>
<td>35 percent max</td>
</tr>
<tr>
<td>Degradation Factor</td>
<td>WSDOT Test Method T 113</td>
<td>15 min.</td>
<td>15 min.</td>
</tr>
<tr>
<td>Resistivity</td>
<td>WSDOT Test Method T 417</td>
<td></td>
<td>3,000 ohm-cm, min.</td>
</tr>
<tr>
<td>pH</td>
<td>WSDOT Test Method 113</td>
<td>4.5–9</td>
<td>5–10</td>
</tr>
<tr>
<td>Chlorides</td>
<td>AASHTO T 291</td>
<td></td>
<td>100 ppm max.</td>
</tr>
<tr>
<td>Sulfates</td>
<td>AASHTO T 290</td>
<td></td>
<td>200 ppm max.</td>
</tr>
</tbody>
</table>

All percentages are by weight.

If the resistivity of the gravel borrow equals or exceeds 5,000 ohm-cm, the specified chloride and sulfate limits may be waived.

Wall backfill material satisfying these grading and property requirements shall be classified as nonaggressive.

**9-03.21(1) General Requirements**

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

Hot Mix Asphalt, Concrete Rubble, Recycled Glass (glass cullet), and Steel Furnace Slag may be used as, or blended uniformly with naturally occurring materials for aggregates.

**9-03.21(1)C Vacant**

This section including title is revised to read:

**9-03.21(1)C Recycled Glass (Glass Cullet)**

Glass Cullet shall meet the requirements of AASHTO M 318 with the additional requirement that the glass cullet is limited to the maximum amounts set in Section 9-03.21(1)E for recycled glass. Prior to use the Contractor shall provide certification to the Project Engineer that the recycled glass meets the physical properties and deleterious substances requirements in AASHTO M-318.

**9-03.21(1) E Table on Maximum Allowable Percent (By Weight) of Recycled Material**

In the table, the row containing the item “Aggregate for Asphalt Treated Base (ATB)” is deleted.
The column heading “Recycled Glass” is revised to read “Recycled Glass (Glass Cullet) in the table.

In the column “Recycled Glass (Glass Cullet)” all amounts are revised to read “20” beginning with the item “Ballast” and continuing down until the last item in the table.

SECTION 9-05, DRAINAGE STRUCTURES, CULVERTS, AND CONDUITS
January 7, 2013

9-05.0 Acceptance by Manufacturer’s Certification

This section including title is revised to read:

9-05.0 Acceptance and Approval of Drainage Structures, and Culverts

The Drainage Structure or Culvert may be selected from the Qualified Products List, or submitted using a Request for Approval of Materials (RAM) in accordance with Section 1-06.

Certain drainage materials may be accepted by the Engineer based on a modified acceptance criteria when materials are selected from the Qualified Products List (QPL). The modified acceptance criteria are defined in the QPL for each material.

9-05.1(6) Corrugated Polyethylene Drain Pipe, Couplings, and Fittings (Up to 10 Inch)

This section is supplemented with the following:

Corrugated polyethylene drain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.1(7) Corrugated Polyethylene Drain Pipe, Couplings, and Fittings (12 Inch Through 60 Inch)

This section is supplemented with the following:

Corrugated polyethylene drain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.2(7) Perforated Corrugated Polyethylene Underdrain Pipe (Up to 10 Inch)

This section is supplemented with the following:

Perforated corrugated polyethylene underdrain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.
9-05.2(8) Perforated Corrugated Polyethylene Underdrain Pipe (12-Inch Through 60 Inch Diameter Maximum), Couplings, and Fittings

This section is supplemented with the following:

Perforated corrugated polyethylene underdrain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.19 Corrugated Polyethylene Culvert Pipe, Couplings, and Fittings

The word “producer” is revised to read “manufacturer”.

The second paragraph is revised to read:

Joints for corrugated polyethylene culvert pipe shall be made with either a bell/bell or bell and spigot coupling and shall incorporate the use of a gasket conforming to the requirements of ASTM D 1056 Type 2 Class B Grade 3 or ASTM F 477. All gaskets shall be factory installed on the coupling or on the pipe by the qualified manufacturer.

This section is supplemented with the following:

Corrugated polyethylene culvert pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.20 Corrugated Polyethylene Storm Sewer Pipe, Couplings, and Fittings

The word “producer” is revised to read “manufacturer”.

The first paragraph is revised to read:

Corrugated polyethylene storm sewer pipe, couplings, and fittings shall meet the requirements of AASHTO M 294 Type S or D. The maximum pipe diameter for corrugated polyethylene storm sewer pipe shall be the diameter for which a manufacturer has submitted. Fittings shall be blow molded, rotational molded, or factory welded.

This section is supplemented with the following:

Corrugated polyethylene culvert pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.24 Polypropylene Culvert Pipe, Polypropylene Storm Sewer Pipe, and Polypropylene Sanitary Sewer Pipe

This sections content is deleted and replaced with the following:
All joints for polypropylene pipe shall be made with a bell/bell or bell and spigot coupling and shall conform to ASTM D 3212 using elastomeric gaskets conforming to ASTM F 477. All gaskets shall be factory installed on the pipe in accordance with the producer’s recommendations.

Qualification for each producer of polypropylene storm sewer pipe requires joint system conformance to ASTM D 3212 using elastomeric gaskets conforming to ASTM F 477 and a formal quality control plan for each plant proposed for consideration.

A Manufacturer’s Certificate of Compliance shall be required and shall accompany the materials delivered to the project. The certificate shall clearly identify production lots for all materials represented. The Contracting Agency may conduct verification tests of pipe stiffness or other properties it deems appropriate.

This section is supplemented with the following new sub-sections:

9-05.24(1) Polypropylene Culvert Pipe and Storm Sewer Pipe
Polypropylene culvert and storm sewer pipe shall conform to the following requirements:

1. For dual wall pipe sizes up to 30 inches: ASTM F2736.
2. For triple wall pipe sizes from 30 to 60 inches: ASTM F2764.
3. For dual wall profile pipe sizes 36 to 60 inches: AASHTO MP 21, Type S or Type D.
4. Fittings shall be factory welded, injection molded or PVC.

9-05.24(2) Polypropylene Sanitary Sewer Pipe
Polypropylene sanitary sewer pipe shall conform to the following requirements:

1. For pipe sizes up to 30 inches: ASTM F2736.
2. For pipe sizes from 30 to 60 inches: ASTM F2764.
3. Fittings shall be factory welded, injection molded or PVC.

SECTION 9-06, STRUCTURAL STEEL AND RELATED MATERIALS
April 1, 2013

9-06.5(3) High Strength Bolts
In this section, “AASHTO M 291” is revised to read “ASTM A 563”, “AASHTO M 164” is revised to read “ASTM A 325”, “AASHTO M 293” is revised to read “ASTM F 436”, “AASHTO M 253” is revised to read “ASTM A 490”, and “AASHTO M 298” is revised to read “ASTM B 695”.

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9-06.5(4) Anchor Bolts

In this section, “AASHTO M 291” is revised to read “ASTM A 563”.

9-07.AP9

SECTION 9-07, REINFORCING STEEL

August 6, 2012

9-07.7 Wire Mesh

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

Wire mesh for concrete reinforcement shall conform to the requirements of AASHTO M 55, Welded Steel Wire Fabric for Concrete Reinforcement or AASHTO M 221, Steel Welded Wire Reinforcement, Deformed for Concrete.

SECTION 9-14, EROSION CONTROL AND ROADSIDE PLANTING

August 5, 2013

9-14.3 Fertilizer

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

It may be separate or in a mixture containing the percentage of total nitrogen, available phosphoric acid, and water-soluble potash or sulfur in the amounts specified.

9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)

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

All HECPs shall be furnished premixed by the manufacturer with Organic or Synthetic Tackifier as specified in Section 9-14.4(7).

The third and fourth rows in Table 1 is revised to read:

<table>
<thead>
<tr>
<th>Heavy Metals</th>
<th>EPA 6020A Total Metals</th>
<th>Antimony – &lt; 4 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Arsenic – &lt; 6 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Barium – &lt; 80 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Boron – &lt; 160 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cadmium – &lt; 2 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Chromium – &lt; 4 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copper – &lt; 10 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lead – &lt; 5 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mercury – &lt; 2 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nickel – &lt; 2 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Selenium – &lt; 10 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Strontium – &lt; 40 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zinc – &lt; 30 mg/kg</td>
</tr>
</tbody>
</table>

| Water Holding Capacity | ASTM D 7367 | 800 percent minimum |

C 3288 Terrace Heights Dr & Butterfield Rd Signalization
9-14.4(2)A Long Term Mulch
In the first paragraph, the phrase “within 2 hours of application” is deleted.

9-14.4(4) Wood Strand Mulch
The last sentence in the second paragraph is deleted.

This section is supplemented with the following new paragraph:

The Contractor shall provide Material Safety Data Sheet (MSDS) that demonstrates that the product is not harmful to plant life and a test report performed in accordance with WSDOT Test Method 125 demonstrating compliance to this specification prior to acceptance.

9-14.4(8) Compost
The second paragraph is revised to read:

Compost production and quality shall comply with WAC 173-350 and for biosolids composts, WAC 173-308.

The third paragraph is to read:

Compost products shall meet the following physical criteria:

1. Compost material shall be tested in accordance with U.S. Composting Council Testing Methods for the Examination of Compost and Composting (TMECC) 02.02-B, “Sample Sieving for Aggregate Size Classification”.

Fine compost shall meet the following gradation:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td>1”</td>
<td>100</td>
</tr>
<tr>
<td>5/8”</td>
<td>90</td>
</tr>
<tr>
<td>1/4”</td>
<td>75</td>
</tr>
</tbody>
</table>

Note: Maximum particle length of 4 inches.

Medium compost shall meet the following gradation:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td>1”</td>
<td>100</td>
</tr>
<tr>
<td>5/8”</td>
<td>85</td>
</tr>
<tr>
<td>1/4”</td>
<td>70</td>
</tr>
</tbody>
</table>

Note: Maximum particle length of 4 inches. Medium compost shall have a carbon to nitrogen ratio (C:N) between 18:1 and 35:1. The carbon to nitrogen ratio
shall be calculated using dry weight of “Organic Carbon” using TMECC 04.01A divided by the dry weight of “Total N” using TMECC 04.02D.

Coarse compost shall meet the following gradation:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td>2&quot;</td>
<td>100</td>
</tr>
<tr>
<td>1&quot;</td>
<td>90</td>
</tr>
<tr>
<td>¾&quot;</td>
<td>70</td>
</tr>
<tr>
<td>¼&quot;</td>
<td>40</td>
</tr>
</tbody>
</table>

Note Maximum particle length of 6 inches. Coarse compost shall have a carbon to nitrogen ratio (C:N) between 25:1 and 35:1. The carbon to nitrogen ratio shall be calculated using the dry weight of “Organic Carbon” using TMECC 04.01A divided by the dry weight of “Total N” using TMECC 04.02D.

2. The pH shall be between 6.0 and 8.5 when tested in accordance with U.S. Composting Council TMECC 04.11-A, “1:5 Slurry pH”.

3. Physical contaminants, defined in WAC 173-350 (plastic, concrete, ceramics, metal, etc.) shall be less than 0.5 percent by weight as determined by U.S. Composting Council TMECC 03.08-A “Classification of Inerts by Sieve Size”.

4. Minimum organic matter shall be 40 percent by dry weight basis as determined by U.S. Composting Council TMECC 05.07A “Loss-On-Ignition Organic Matter Method (LOI)”.

5. Soluble salt contents shall be less than 4.0 mmhos/cm when tested in accordance with U.S. Composting Council TMECC 04.10 “Electrical Conductivity.”

6. Maturity shall be greater than 80 percent in accordance with U.S. Composting Council TMECC 05.05-A, “Germination and Root Elongation”.

7. Stability shall be 7-mg CO2–C/g OM/day or below in accordance with U.S. Composting Council TMECC 05.08-B “Carbon Dioxide Evolution Rate”.

8. The compost product shall originate from organic feedstocks as defined in WAC 173 350 as “Wood waste”, “Yard debris”, “Post-consumer food waste”, “Pre-consumer animal-based wastes”, and/or “Pre-consumer vegetative waste”. The Contractor shall provide a list of feedstock sources by percentage in the final compost product.

9. The Engineer may also evaluate compost for maturity using U.S. Composting Council TMECC 05.08-E “Solvita® Maturity Index”. Fine compost shall score a
number 6 or above on the Solvita® Compost Maturity Test. Medium and Coarse
compost shall score a 5 or above on the Solvita® Compost Maturity Test.

9-14.4(8)A Compost Approval
This section’s title is revised to read:

9-14.4(8)A Compost Submittal Requirements

The first sentence in this section up until the colon is revised to read:

The Contractor shall submit the following information to the Engineer for approval:

Item No. 2 in the first paragraph is revised to read:

2. A copy of the Solid Waste Handling Permit issued to the manufacturer by the
Jurisdictional Health Department in accordance with WAC 173-350 (Minimum
Functional Standards for Solid Waste Handling) or for biosolid composts a copy of the
Coverage Under the General Permit for Biosolids Management issued to the
manufacturer by the Department of Ecology in accordance with WAC 173-308
(Biosolids Management).

9-14.5 Erosion Control Devices
This section is supplemented with the following new sub-section:

9-14.5(9) High Visibility Silt Fence
High visibility silt fence shall be a minimum of 5 feet in height, high visibility orange, UV
stabilized and shall meet the geotextile requirements in Section 9-33 Table 6. Support posts
shall be in accordance with the Standard Plans. The posts shall have sufficient strength and
durability to support the fence through the life of the project.

9-14.5(1) Polyacrylamide (PAM)
The fourth sentence is replaced with the following two new sentences:

The minimum average molecular weight shall be greater than 5-mg/mole. The charge
density shall be no less than 15 percent and no greater than 30 percent.

9-14.5(2) Erosion Control Blanket
This section including title is deleted in its entirety and replaced with the following:

9-14.5(2) Biodegradable Erosion Control Blanket
Biodegradable erosion control blankets shall be made of natural plant fibers, and all netting
material, if present, shall biodegrade within a life span not to exceed 2 years.

The Contractor shall provide independent test results from the National Transportation
Product Evaluation Program (NTPEP) meeting the requirements of Section 9-14.5(2)B, 9-
14.5(2)C and 9-14.5(2)D.
9-14.5(2)A Approval and Acceptance of Biodegradable Erosion Control Blankets

The erosion control blanket may be selected from the Qualified Products List, or submitted using a Request for Approval of Materials (RAM) in accordance with Section 1-06. Erosion control blankets may be accepted by the Engineer based on the modified acceptance criteria when materials are selected from the QPL. The modified acceptance criteria are defined in the QPL for each material.

9-14.5(2)B Biodegradable Erosion Control Blanket for Slopes Steeper than 3:1 (H:V)

Table 6

<table>
<thead>
<tr>
<th>Properties</th>
<th>ASTM Test Method</th>
<th>Requirements for Slopes Steeper than 3:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protecting Slopes from Rainfall-Induced Erosion</td>
<td>ASTM D 6459</td>
<td>C factor = 0.04 maximum for cumulative R-Factor&lt;231</td>
</tr>
<tr>
<td></td>
<td>Soil tested shall be sandy loam as defined by the NRCS**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soil Texture Triangle</td>
<td></td>
</tr>
<tr>
<td>Mass Per Unit Area</td>
<td>ASTM D 6475</td>
<td>7.6 oz./sq. yd. minimum</td>
</tr>
<tr>
<td>Light Penetration</td>
<td>ASTM D 6567</td>
<td>44 % maximum</td>
</tr>
<tr>
<td>Tensile Strength MD x XD*</td>
<td>ASTM D 6818</td>
<td>10.0 x 6.0 pounds/inch minimum</td>
</tr>
<tr>
<td>Tensile Elongation MD x XD*</td>
<td>ASTM D 6818</td>
<td>38% x 33% maximum</td>
</tr>
</tbody>
</table>

*MD is Machine Design and XD is Cross Direction
**Natural Resource Conservation Services

9-14.5(2)C Biodegradable Erosion Control Blanket for Slopes Flatter than 3:1(H:V)

Table 7

<table>
<thead>
<tr>
<th>Properties</th>
<th>ASTM Test Method</th>
<th>Slope Flatter than 3:1</th>
</tr>
</thead>
</table>

C 3288 Terrace Heights Dr & Butterfield Rd Signalization
<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Method</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protecting Slopes from Rainfall-Induced Erosion</td>
<td>ASTM D 6459</td>
<td>C factor = 0.15 maximum for cumulative R-Factor &lt; 231</td>
</tr>
<tr>
<td>Soil tested shall be sandy loam as defined by the NRCS** Soil Texture Triangle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass Per Unit Area</td>
<td>ASTM D 6475</td>
<td>7.6 oz./sq. yd. minimum</td>
</tr>
<tr>
<td>Light Penetration</td>
<td>ASTM D 6567</td>
<td>40% maximum</td>
</tr>
<tr>
<td>Tensile Strength MD x XD*</td>
<td>ASTM D 6818</td>
<td>6.5 x 2.3 pounds/inch minimum</td>
</tr>
<tr>
<td>Tensile Elongation MD x XD*</td>
<td>ASTM D 6818</td>
<td>38% x 33% maximum</td>
</tr>
</tbody>
</table>

*MD is Machine Design and XD is Cross Direction
**Natural Resource Conservation Services

9-14.5(2)D Biodegradable Erosion Control Blanket for Ditches

Table 8

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Method</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance in Protecting Earthen Channels from Stormwater-Induced Erosion</td>
<td>ASTM D 6460</td>
<td>Limiting Shear ($T_{\text{Limit}}$) = 2.0 psf minimum.</td>
</tr>
<tr>
<td>Soil tested shall be sandy loam as defined by the NRCS** Soil Texture Triangle</td>
<td></td>
<td>Limiting Velocity ($V_{\text{Limit}}$) = 7.5 ft/sec flow minimum.</td>
</tr>
<tr>
<td>Mass per Unit Area</td>
<td>ASTM D 6475</td>
<td>7.4 oz./sq. yd. minimum</td>
</tr>
<tr>
<td>Light Penetration</td>
<td>ASTM D 6567</td>
<td>65% maximum</td>
</tr>
<tr>
<td>Tensile Strength MD x XD*</td>
<td>ASTM D 6818</td>
<td>9.6 x 3.2 lbs/inch minimum</td>
</tr>
<tr>
<td>Tensile Elongation MD x XD*</td>
<td>ASTM D 6818</td>
<td>38% x 33% maximum</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>*MD is Machine Design and XD is Cross Direction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>**Natural Resource Conservation Services</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9-14.5(3) Clear Plastic Covering
This section including title is revised to read:

Plastic Covering
Plastic covering shall meet the requirements of ASTM D 4397 for polyethylene sheeting.

9-14.5(4) Geotextile Encased Check Dam
This section including title is revised to read:

9-14.5(4) Check Dams
All materials used for check dams shall be non-toxic and not pose a threat to wildlife when installed.

This section is supplemented with the following new sub-sections:

9-14.5(4)A Biodegradable Check Dams
Biodegradable check dams shall meet the following requirements:

<table>
<thead>
<tr>
<th>Biodegradable Check Dams</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wattle Check Dam</td>
<td>9-14.5(5)</td>
</tr>
<tr>
<td>Compost Sock Check Dam</td>
<td>9-14.5(6)</td>
</tr>
<tr>
<td>Coir Log Check Dam</td>
<td>9-14.5(7)</td>
</tr>
</tbody>
</table>

The Contractor may substitute a different biodegradable check dam as long as it complies with the following and is approved by the Engineer:

1. Made of natural plant fiber.
2. Netting if present shall be biodegradable.
3. Straw bales shall not be used as check dams.

9-14.5(4)B Non-biodegradable Check Dams
Non-biodegradable check dams shall meet the following requirements:

1. Geotextile materials shall conform to section 9-33 for silt fence.
2. Other such devices that fulfill the requirements of section 9-14.5(4) and shall be approved by the Engineer prior to installation.

9-14.5(5) Wattles
The second sentence in the first paragraph is revised to read:

Wattle shall be a minimum of 8-inches in diameter.

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

Compost filler shall be Medium Compost and shall meet the material requirements as specified in Section 9-14.4(8).

The last paragraph is revised to read:

Wood stakes for wattles shall be made from untreated Douglas fir, hemlock, or pine species. Wood stakes shall be 2 by 2-inch nominal dimension and a minimum 24 inches in length.

9-14.5(6) Compost Socks
In this section, “Coarse Compost” is revised to read “Medium Compost”.

The last paragraph is revised to read:

Wood stakes for compost socks shall be made from untreated Douglas fir, hemlock, or pine species. Wood stakes shall be 2 by 2-inch nominal dimension and a minimum 24 inches in length.

9-14.5(8) High Visibility Fencing
The first paragraph is revised to read:

High visibility fence shall be UV stabilized, orange, high-density polyethylene or polypropylene mesh.

9-14.6(1) Description
In item No. C in the fourth paragraph, “22-inch” is revised to read “2-inch”.

9-23.AP9
SECTION 9-23, CONCRETE CURING MATERIALS AND ADMIXTURES
August 5, 2013

9-23.2 Liquid Membrane-Forming Concrete Curing Compounds
In the first paragraph, “moisture loss” is revised to read “water retention”.

9-23.6(9) Type S Specific Performance Admixtures
The first sentence is revised to read the following two new sentences:
Type S Specific Performance admixtures are limited to ASR-mitigating, viscosity modifying, shrinkage reducing, rheology-controlling, and workability-retaining admixtures. They shall conform to the requirements of ASTM C 494 Type S.

SECTION 9-28, SIGNING MATERIALS AND FABRICATION
April 1, 2013

9-28.14(2) Steel Structures and Posts
"AASHTO M 291" is revised to read "ASTM A 563" and "AASHTO M 293" is revised to read "ASTM F 436".

SECTION 9-29, ILLUMINATION, SIGNAL, ELECTRICAL
August 5, 2013

9-29.1(4) Non-Metallic Conduit
This section is supplemented with the following new sub-section:

9-29.1(4)D Deflection Fittings
Deflection Fittings for use with rigid PVC conduit shall be as described in 9-29.1(2)A

9-29.2 Junction Boxes, Cable Vaults, and Pull Boxes
The section is supplemented with the following:

The Contractor shall perform quality control inspection. The Contracting Agency intends to perform Quality Assurance Inspection. By its inspection, the Contracting Agency intends only to verify the quality of that Work. This inspection shall not relieve the Contractor of any responsibility for identifying and replacing defective material and workmanship. Prior to the start of production of the precast concrete units, 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 noncompliance with the purchasing specifications, the Inspector will advise the plant manager. If the corrective action is not acceptable to the Engineer, the unit(s) will be rejected.

9-29.2(1) Standard Duty and Heavy-Duty Junction Boxes
The third paragraph is deleted and replaced with the following new paragraphs:

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, and each sheet shall include the following:

1. Professional Engineer’s original signature, date of signature, original seal, registration number, and date of expiration.

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.

4. Design calculations shall carry on the cover page, the Professional Engineer’s original signature, date of signature, original seal, registration number, and date of expiration.

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

The first paragraph is supplemented with the following:

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 M 111.

The sub-paragraph’s titled “Concrete Junction Boxes” are revised to read:

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 ¾ 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:

<table>
<thead>
<tr>
<th>Materials</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>Section 6-02</td>
</tr>
<tr>
<td>Reinforcing Steel</td>
<td>Section 9-07</td>
</tr>
<tr>
<td>Fiber Reinforcing</td>
<td>ASTM C 1116, Type III</td>
</tr>
<tr>
<td>Lid</td>
<td>ASTM A 786 diamond plate steel</td>
</tr>
<tr>
<td>Slip Resistant Lid</td>
<td>ASTM A 36 steel</td>
</tr>
<tr>
<td>Frame</td>
<td>ASTM A 786 diamond plate steel or ASTM A36 steel</td>
</tr>
<tr>
<td>Slip Resistant Frame</td>
<td>ASTM A 36 steel</td>
</tr>
<tr>
<td><strong>Lid Support</strong></td>
<td><strong>ASTM A 36, or ASTM A1011 Grade SS</strong></td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td><strong>Handle &amp; Handle support</strong></td>
<td><strong>ASTM A 36 steel or ASTM A1011 Grade CS or SS</strong></td>
</tr>
<tr>
<td><strong>Anchors (studs)</strong></td>
<td><strong>Section 9-06.15</strong></td>
</tr>
<tr>
<td><strong>Bolts, Studs, Nuts, Washers</strong></td>
<td><strong>ASTM F 593 or A 193, Type 304 or 316, or Stainless Steel grade 302, 304, or 316 steel in accordance with approved shop drawing</strong></td>
</tr>
<tr>
<td><strong>Locking and Latching Mechanism Hardware and Bolts</strong></td>
<td><strong>In accordance with approved shop drawings</strong></td>
</tr>
</tbody>
</table>

**9-29.2(1)B Heavy Duty Junction Boxes**

The section is revised to read:

Heavy-Duty Junction Boxes 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(1)C.

The Heavy-Duty Junction Box steel frame, lid support and lid shall be painted with a shop applied, inorganic zinc primer in accordance with Section 6-07.3.

Materials for Type 4, 5, and 6 Concrete Junction Boxes shall conform to the following:

<table>
<thead>
<tr>
<th><strong>Materials</strong></th>
<th><strong>Requirement</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concrete</strong></td>
<td><strong>Section 6-02</strong></td>
</tr>
<tr>
<td><strong>Reinforcing Steel</strong></td>
<td><strong>Section 9-07</strong></td>
</tr>
<tr>
<td><strong>Lid</strong></td>
<td><strong>ASTM A 786 diamond plate steel, rolled from plate complying with ASTM A 572, grade 50 or ASTM A 588, and having a min. CVN toughness of 20 ft-lb at 40 degrees F.</strong></td>
</tr>
<tr>
<td><strong>Frame and stiffener plates</strong></td>
<td><strong>ASTM A 572 grade 50 or ASTM A 588, both with min. CVN toughness of 20 ft-lb at 40 degrees F.</strong></td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td><strong>ASTM A 36 steel or ASTM A 1011 Grade CS or SS</strong></td>
</tr>
<tr>
<td><strong>Anchors (studs)</strong></td>
<td><strong>Section 9-06.15</strong></td>
</tr>
<tr>
<td><strong>Bolts, Studs, Nuts, Washers</strong></td>
<td><strong>ASTM F 593 or A 193, Type 304 or 316, or Stainless Steel grade 302, 304, or 316 in accordance with approved shop drawing</strong></td>
</tr>
<tr>
<td><strong>Hinges and Locking and Latching Mechanism Hardware and Bolts</strong></td>
<td><strong>In accordance with approved shop drawings</strong></td>
</tr>
</tbody>
</table>
The lid stiffener plates shall bear on the frame, and be milled so that there is full even contact, around the perimeter, between the bearing seat and lid stiffener plates, after fabrication of the frame and lid. The bearing seat and lid perimeter bar shall be free from burrs, dirt, and other foreign debris that would prevent solid seating. Bolts and nuts shall be liberally coated with anti-seize compound. Bolts shall be installed snug tight. The bearing seat and lid perimeter bar shall be machined to allow a minimum of 75 percent of the bearing areas to be seated with a tolerance of 0.0 to 0.005 inches measured with a feeler gage. The bearing area percentage will be measured for each side of the lid as it bears on the frame.

9-29.2(1)C Testing Requirements
The first paragraph is revised to read:

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.

The second paragraph is revised to read:

For concrete junction boxes, vaults and pull boxes, 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, registration number, and date of expiration. 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 a concrete junction box, 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.
7. A brief description of type and location of failure.

The third paragraph is revised to read:
For non-concrete junction boxes 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, registration number, and date of expiration. 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 a non-concrete junction box, and shall include the following information:

1. Product identification.

2. Date of testing.

3. Description of testing apparatus and procedure.

4. All load deflection data.

5. Weight of box and cover tested.

The first paragraph following the title “Testing for the Standard Duty Non-Concrete Junction Boxes” is revised to read:

Non-concrete Junction Boxes shall be tested as defined in the ANSI/SCTE 77-2007 Tier 15 test method with test load minimum of 22,500 lbs. In addition, the Contractor shall provide a Manufacture Certificate of Compliance for each non-concrete junction box installed.

9-29.2(2) Standard Duty and Heavy-Duty Cable Vaults and Pull Boxes

This section is revised to read:

Standard Duty and Heavy-Duty Cable Vaults and Pull Boxes shall be constructed as a concrete box and as a concrete lid. The lid for the Heavy-Duty and Standard Duty 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, and each sheet shall carry the following:

1. Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration.

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.

4. Design calculations shall carry on the cover page, the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration.

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 Standard Duty Cable Vaults and Pull Boxes

This section 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(1)C for concrete Standard Duty Junction Boxes.

Concrete for standard duty cable vaults and pull boxes shall have a minimum compressive strength of 4,000 psi. The lid frame shall be anchored to the vault/box concrete lid by welding headed studs ⅜ 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 vault/box concrete lid shall contain ten studs located near the centerline of the frame and wall. 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 vault/box. The 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 ASTM M 111.

All Standard Duty Cable Vaults and Pull Boxes placed in sidewalks, walkways, and shared-use paths shall have slip-resistant surfaces. The steel frame, lid support, and lid for the Standard Duty Cable Vaults and Pull Boxes shall be hot-dip galvanized.

Materials for Standard Duty Cable Vaults and Pull Boxes shall conform to the following:

<table>
<thead>
<tr>
<th>Materials</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>Section 6-02</td>
</tr>
<tr>
<td>Reinforcing Steel</td>
<td>Section 9-07</td>
</tr>
<tr>
<td>Lid</td>
<td>ASTM A 786 diamond plate steel</td>
</tr>
<tr>
<td>Slip Resistant Lid</td>
<td>ASTM A 36 Steel</td>
</tr>
<tr>
<td>Frame</td>
<td>ASTM A 786 diamond plate steel or ASTM A 36</td>
</tr>
<tr>
<td>Slip Resistant Frame</td>
<td>ASTM A 36 Steel</td>
</tr>
<tr>
<td>Lid Support</td>
<td>ASTM A 36 Steel, or ASTM A 1011 Grade SS</td>
</tr>
</tbody>
</table>
### 9-29.2(2)B Heavy-Duty Cable Vaults and Pull Boxes

This section 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(1)C for Heavy-Duty Junction Boxes.

Materials for Heavy Duty Cable Vaults and Pull boxes shall conform to the following:

<table>
<thead>
<tr>
<th>Materials</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>Section 6-02</td>
</tr>
<tr>
<td>Reinforcing Steel</td>
<td>Section 9-07</td>
</tr>
<tr>
<td>Cover</td>
<td>Section 9-05.15(1)</td>
</tr>
<tr>
<td>Ring</td>
<td>Section 9-05.15(1)</td>
</tr>
<tr>
<td>Anchors (studs)</td>
<td>Section 9-06.15</td>
</tr>
<tr>
<td>Bolts, Nuts, Washers</td>
<td>ASTM F593 or A 193, Type 304 or 316, or Stainless steel grade 302, 304, 316 in accordance with approved shop drawing</td>
</tr>
</tbody>
</table>

### 9-29.6(2) Slip Base Hardware

"AASHTO M 291" is revised to read “ASTM A 563”, “AASHTO M 164” is revised to read “ASTM A 325”, and “AASHTO M 293” is revised to read “ASTM F 436.

### 9-29.6(5) Foundation Hardware

"AASHTO M 291" is revised to read “ASTM A 563”.

### 9-29.10 Luminaires

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. Legends shall be sealed with transparent film resistant to dust, weather, and ultraviolet exposure.
9-29.10(2) Decorative Luminaries
The second sentence in the third paragraph is deleted.

9-29.13 Traffic Signal Controllers
This section and all sub-sections including title is revised to read:

9-29.13 Control Cabinet Assemblies
Control cabinet assemblies shall include all necessary equipment and auxiliary equipment for controlling the operation of traffic signals, programmable message signs, illumination systems, ramp meters, data stations, CCTV, and similar systems as required for the specific application. Traffic Signal Controller Cabinet Assemblies shall meet the requirements of the NEMA TS1 and TS2 specification or the California Department of Transportation "Transportation Electrical Equipment Specifications" (TEES) dated March 12, 2009 as defined in this specification.

9-29.13(1) Environmental, Performance, and Test Standards for Solid-State Traffic Controller Assemblies
The scope of this Specification includes the controller of solid-state design installed in a weatherproof controller cabinet. The controller assembly includes the cabinet, controller unit, load switches, signal conflict monitoring circuitry, accessory logic circuitry, AC line filters, vehicle detectors, coordination equipment and interface, and preemption equipment. NEMA control assemblies shall meet or exceed current NEMA TS 1 Environmental Standards. Normal operation will be required while the control assembly is subjected to any combination of high and low environmental limits (such as low voltage at high temperature with high repetition noise transients). All other control equipment shall meet the environmental requirements of California Department of Transportation "Transportation Electrical Equipment Specifications" (TEES) dated March 12, 2009.

The Contractor shall furnish to the Contracting Agency all guarantees and warranties furnished as a normal trade practice for all control equipment provided.

9-29.13(2) Manufacturing Quality
The fabricator of the Control, cabinet Assemblies shall perform quality control (QC) inspections based on their QC program. Their QC program shall be submitted and approved by WSDOT at least annually. The fabricator of the controller shall certify that the controller meets all requirements of the Standard Specifications and Special Provisions for the specific application.

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

1. Quality Statement

2. Individual responsible for quality (organizational chart)

3. Fabrication procedures
4. Test procedures

5. Documented inspection reports

6. Documented test reports

7. Certification package

9-29.13(2) A Traffic Signal Controller Assembly Testing

Each traffic signal controller assembly shall be tested as follows. The supplier shall:

1. Seven days prior to shipping, arrange appointment for controller cabinet assembly, and testing at the WSDOT Materials Laboratory or the facility designated in the Special Provisions.

2. Assembly shall be defined as but not limited to tightening all screws, nuts and bolts, verifying that all wiring is clear of moving parts and properly secured, installing all pluggables, connecting all cables, Verify that all Contract required documents are present, proper documentation is provided, and all equipment required by the Contract is installed.

3. The assembly shall be done at the designated WSDOT facility in the presence of WSDOT personnel.

4. The supplier shall demonstrate that all of the functions required by this Specification and the Contract Plans and Special Provisions perform as intended. Demonstration shall include but not be limited to energizing the cabinet and verifying that all 8 phases, 4 pedestrian movements, 4 overlaps (as required by the Contract Provisions) operate in accordance with Section 9-29.13. The supplier shall place the controller in minimum recall with interval timing set at convenient value for testing purposes. Upon a satisfactory demonstration the controller assembly will then be accepted by WSDOT for testing.

5. If the assembly and acceptance for testing is not complete within 5 working days of delivery, the Project Engineer may authorize the return of the assembly to the supplier, with collect freight charges to the supplier.

6. The Contractor will be notified when the testing is complete, and where the assembly is to be picked-up for delivery to the project.

7. The supplier has 5 working days to repair or replace any components that fail during the testing process at no cost to the Contracting Agency. A failure shall be defined as a component that no longer functions as
intended under the conditions required or does not meet the requirements of the Contract Specifications and is at the sole discretion of WSDOT.

8. Any part or component of the controller assembly, including the cabinet that is rejected shall not be submitted for use by WSDOT or any City or County in the State of Washington.

9-29.13(3) Traffic Signal Controller
The traffic signal controller shall conform to the Contract requirements and the applicable Specifications as listed below: All solid-state electronic traffic-actuated controllers and their supplemental devices shall employ digital timing methods.

A. NEMA control and all auxiliary equipment shall conform to current NEMA TS1 or TS2 Specification. Every pin of every connecting plug shall be utilized as described within the NEMA requirement, except that those pins identified as “spare” or “future” shall remain unused.

B. Type 170E controllers shall conform to the TEES. The 170E controller shall be provided with a program card, one blank ROM chip, and two 64K non-volatile memory chips.

C. Type 170E/HC-11 controllers shall conform to the current Oregon Department of Transportation Specification for model 170E/HC-11 controller. The 170E controller with the HC11 chip shall be compatible with the software specified in the Contract. The controller shall be provided with one ROM chip and one 64K non-volatile memory chip.

D. Vacant

E. Type 2070 controllers shall conform to the TEES. The standard 2070 controller shall consist of the following:

<table>
<thead>
<tr>
<th>2070</th>
<th>2070E</th>
<th>2070N1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2070-5 VME cage</td>
<td>2070-1E CPU Card</td>
<td>2070-1E CPU Card</td>
</tr>
<tr>
<td>2070-1E CPU Card</td>
<td>2070-3B Front Panel</td>
<td>2070-3B Front Panel</td>
</tr>
<tr>
<td>2070-4 Power Supply</td>
<td>2070-4 Power Supply</td>
<td>2070-4 Power Supply</td>
</tr>
<tr>
<td>2070-2A Field I/O</td>
<td>2070-2A Field I/O</td>
<td>2070-2B Field I/O</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
<td>2070-8 Interface</td>
</tr>
</tbody>
</table>
9-29.13(4) Traffic-Signal Controller Software

All traffic signal controllers shall operate with software specified in the contract.

Traffic-actuated controllers shall be electronic devices which, when connected to traffic
detectors or other means of actuation, or both, shall operate the electrical traffic signal
system at one or more intersections.

If the complete traffic controller defined in the Special Provision requires NTCIP
compliance the following are the minimum requirements for NTCIP operation.

Communication

The traffic controller hardware and software shall communicate with the central
computer in a polled multi-drop operation. In the polled multi-drop operation, several
traffic controllers shall share the same communication channel, with each controller
assigned a unique ID number. Controller ID numbers shall conform to the NTCIP
requirements for address numbers. A traffic controller shall only reply to messages
labeled with its ID. In polled multi-drop mode, traffic controllers never initiate
communication, but merely transmit their responses to messages from the central
computer.

A laptop computer connected to the traffic controller’s local communication port shall
have the same control and diagnostic capabilities as the central computer. However,
local laptop control capability shall be limited to that traffic controller.

NTCIP Requirements

The traffic controller software shall comply with the National Transportation
Communications for ITS Protocol (NTCIP) documents and all related errata sheets
published before July 1, 1999 and as referenced herein.

The traffic controller software shall support the following standards:

1. NTCIP 1101, Simple Transportation Management Framework (STMF),
   Conformance Level 1 (Simple Network Management Protocol (SNMP))

2. NTCIP 2001, Class B Profile. All serial ports on the device shall support
   communications according to these standards.

3. NTCIP 2101, SP-PMPP/RS232 Point-to-Multi-Point Protocol (PMPP)

4. NTCIP 2201, NTCIP TP-Null Transport Profile Null (TP-NULL)

The traffic controller software shall implement all mandatory objects of all mandatory
conformance groups as defined in NTCIP 1201, Global Object Definitions, and NTCIP
1202, Object Definitions for Actuated Traffic Signal Controller Units. Software shall
implement the following conformance groups:
NTCIP 1202, Object Definitions for ASC

<table>
<thead>
<tr>
<th>Conformance Group</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td>1201</td>
</tr>
<tr>
<td>Time Management</td>
<td>2.2</td>
</tr>
<tr>
<td>Time Base Event Schedule</td>
<td></td>
</tr>
<tr>
<td>Report</td>
<td>2.5</td>
</tr>
<tr>
<td>Phase</td>
<td>1202</td>
</tr>
<tr>
<td>Rings</td>
<td>2.2</td>
</tr>
<tr>
<td>Detector</td>
<td>2.3</td>
</tr>
<tr>
<td>Unit</td>
<td>2.4</td>
</tr>
<tr>
<td>Preempt</td>
<td>2.7</td>
</tr>
<tr>
<td>Time Base</td>
<td>2.6</td>
</tr>
<tr>
<td>Coordination</td>
<td>2.5</td>
</tr>
<tr>
<td>Channel</td>
<td>2.9</td>
</tr>
<tr>
<td>Overlaps</td>
<td>2.10</td>
</tr>
</tbody>
</table>

The software shall implement the following optional objects:

Objects required by these specifications shall support all values within its standardized range. The standardized range is defined by a size, range, or enumerated listing indicated in the object's SYNTAX field and/or through descriptive text in the object's description field. The following list indicates the modified object requirements for these objects:

<table>
<thead>
<tr>
<th>Object Name</th>
<th>Object ID</th>
<th>Minimum Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Configuration</td>
<td>moduleType</td>
<td>Value 3</td>
</tr>
<tr>
<td>Database Management</td>
<td>dBCreateTransaction</td>
<td>All Values</td>
</tr>
<tr>
<td></td>
<td>dBErrorType</td>
<td>All values</td>
</tr>
<tr>
<td>Time Management</td>
<td>globslDaylightSavings</td>
<td>Values 2 and 3</td>
</tr>
<tr>
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* values in excess of the minimum requirement are considered to meet the specification.

**Documentation**

Software shall be supplied with all documentation on a CD. ASCII versions of the following Management Information Base (MIB) files in Abstract Syntax Notation 1 (ASN.1) format shall be provided on CD-ROM:

1. The official MIB Module referenced by the device functionality.
2. A manufacturer-specific version of the official MIB Module with the non-standardized range indicated in the SYNTAX field. The filename shall match the official MIB Module, with the extension “spc”.

3. A MIB Module of all manufacturer-specific objects supported by the device with accurate and meaningful DESCRIPTION fields and the supported ranges indicated in the SYNTAX field.

9-29.13(5) Flashing Operations
All traffic signals shall be equipped for flashing operation of signal displays. Controllers and cabinets shall be programmed for flashing red displays for all approaches. During flashing operation, all pedestrian circuits shall be de-energized.

Actuated traffic signal control mechanisms shall be capable of entry into flash operation and return to stop-and-go operation as follows:

1. Terminal Strip Input (Remote Flash). When called as a function of a terminal strip input, the controller shall provide both sequenced entry into flash and sequenced return to normal operation consistent with the requirements of the latest edition of the Manual on Uniform Traffic Control Devices.

2. Police Panel Switch. When the flash-automatic switch located behind the police panel door is turned to the flash position, the signals shall immediately revert to flash; and, the controller shall have a stop time input applied. When the switch is placed on automatic, the controller shall immediately time an 6 second all red period then resume stop-and-go operations at the beginning of major street green.

3. Controller Cabinet Switches. When the flash-automatic switch located inside the controller cabinet is placed in the flash position, the signals shall immediately revert to flash; however, the controller shall not have a stop time input applied. When the flash-automatic switch is placed in the automatic position, the controller shall immediately time a 6 second all red period, then resume stop-and-go operation at the beginning of the major green.

4. Power Interruption. On “NEMA” controllers any power interruption longer than 475 plus or minus 25 milliseconds, signals shall re-energize consistent with No. 2 above to ensure an 6-second flash period prior to the start of major street green. A power interruption of less than 475 plus or minus 25 milliseconds shall not cause resequencing of the controller and the signal displays shall re-energize without change. Type 170 controllers shall re-energize consistent with No. 2 above after a power interruption of 1.75 plus or minus 0.25 seconds. The 6-second flash period will not be required. Any power interruption to a 2070 type controller shall result in a 6 second flash period once power is restored.
5. Conflict Monitor. Upon detecting a fault condition the conflict monitor shall immediately cause the signal to revert to flash and the controller to stop time. After the conflict monitor has been reset, the controller shall immediately take command of the signal displays at the beginning of major street green.

9-29.13(6) Emergency Preemption
Immediately after a valid call has been received, the preemption equipment shall cause the controller to terminate the appropriate phases as necessary with the required clearance intervals and enter any programmed subsequent preemption sequence. Preemption sequences shall be as noted in the Contract.

9-29.13(7) Wiring Diagrams
Schematic wiring diagrams of the controllers, cabinets and auxiliary equipment shall be submitted when the assemblies are delivered. The diagram shall show in detail all circuits and parts. The parts shall be identified by name or number in a manner readily interpreted. Two hard copies of the cabinet wiring diagram and component wiring diagrams shall be furnished with each cabinet and a PDF file of the cabinet wiring and component drawings. The schematic drawing shall consist of a single sheet, detailing all circuits and parts, not to exceed 52-inches by 72-inches. The cabinet wiring diagram shall indicate and identify all wire terminations, all plug connectors, and the locations of all equipment in the cabinet. Included in the diagram shall be an intersection sketch identifying all heads, detectors, and push buttons and a phase diagram.

9-29.13(8) Generator Transfer Switch
When specified in the contract, a generator transfer switch shall be included. The Generator Transfer Switch shall be capable of switching power from a utility power source to an external generator power source.

The Transfer Switch enclosure shall be of identical materials and dimensions and installation methods as the Police Panel type enclosure specified in the first paragraph of Special Provision 9-29.13(10)(D) except that the enclosure door shall include a spring loaded construction core lock capable of accepting a Best 6-pin CX series core. The core lock shall be installed with a green construction core. Upon contract completion, two master keys for the construction core shall be delivered to the Engineer.

The enclosure shall include the following Transfer Switch equipment:

1. One Nema L5-30P Flanged Inlet generator connector
2. One Utility power indicator light
3. One generator indicator light
4. Two 30 amp, 120 volt, single pole, single phase, circuit breakers. One circuit breaker shall be labeled “Generator” and the other circuit breaker shall be labeled “Utility”. Both labels shall be engraved phenolic name plates.
5. A mechanical lock out feature that prevents the Utility circuit breaker and the Generator circuit breaker from being in the ON position at the same time. The circuit breakers shall be capable of being independently switched.

6. The conductors from the Generator Transfer Switch enclosure to the cabinet circuit breaker shall be enclosed in nylon mesh sleeve.

7. The enclosure door shall be labeled with the letters “GTS”.

9-29.13(9) Vacant

9-29.13(10) NEMA, Type 170E, 2070 Controllers and Cabinets

9-29.13(10)A Auxiliary Equipment for NEMA Controllers
The following auxiliary equipment shall be furnished and installed in each cabinet for NEMA traffic-actuated controllers:

1. A solid-state Type 3 NEMA flasher with flash-transfer relay which will cut in the flasher and isolate the controller from light circuits. See Section 9-29.13(5) for operational requirements.

2. Modular solid state relay load switches of sufficient number to provide for each vehicle phase (including future phases if shown in the plans), each pedestrian phase and preemption sequence indicated in the Contract. Type P & R cabinets shall include a fully wired 16-position back panel. Solid-state load switches shall conform to NEMA standards except only optically isolated load switches will be allowed. Load switches shall include indicator lights on the input and output circuits. The controller cabinet shall have all cabinet wiring installed for eight vehicle phases, four pedestrian phases, four emergency pre-empts, four overlaps (OL A, B, C, D).

3. A power panel with:

   a. A control-display breaker sized to provide 125 percent overload protection for all control equipment and signal displays, 20 ampere minimum.

   b. A 15 ampere accessory breaker wired parallel to the control display breaker. The breaker will carry accessory loads, including vent fan, cabinet light, plug receptacle, etc.

   c. A busbar isolated from ground and unfused for the neutral side of power supply.
d. A radio interference suppressor installed at the input power point. Interference suppressors shall be of a design which will minimize interference in both broadcast and aircraft frequencies, and shall provide a minimum attenuation of 50 decibels over a frequency range of 200 kilohertz to 75 megahertz when used in connection with normal installations. The interference filters furnished shall be hermetically sealed in a substantial case filled with a suitable insulating compound. Terminals shall be nickel plated, 10-24 brass studs of sufficient external length to provide space to connect two 8 AWG wires, and shall be so mounted that they cannot be turned in the case.

Ungrounded terminals shall be insulated from each other and shall maintain a surface leakage distance of not less than ½-inch between any exposed current conductor and any other metallic parts with an insulation factor of 100-200 megohms dependent on external circuit conditions.

Suppressers shall be designed for operations on 50 amperes, 125 volts, 60 cycles, single wire circuits, and shall meet standards of the Underwriters’ Laboratories and the Radio Manufacturers Association.

e. A Surge Protection Device connected to the controller power circuit for protection against voltage abnormalities of 1 cycle or less duration. The Surge Protection Device shall be a solid state high energy circuit containing no spark gap, gas tube, or crow bar component. The device shall provide transient protection between neutral and ground, line and ground, as well as line and neutral. If the protection circuits fail, they shall fail to an open circuit condition. The minimum interrupting capacity shall be 10,000 Amps. The Voltage Protection Rating shall be 600 volts or less when subjected to an impulse of 6,000 volts, 3,000 amp source impedance, 8.0/20 microsecond waveform as described in UL 1449. In addition, the device shall dissipate a 13,000 Amp or greater repeated single peak 8/20 microsecond current impulse, and withstand, without failure or permanent damage, one full cycle at 264 volts RMS. The device shall contain circuitry to prevent self-induced regenerative ringing. There shall be a failure warning indictor which shall illuminate a red light or extinguish a green light when the device has failed and is no longer operable.

f. Cabinet ground busbar independent (150K ohms minimum) of neutral.
4. A police panel located behind the police panel door with a flash automatic switch and a control-display power line on-off switch. See Section 9-29.13(5) for operational requirements.

5. An auxiliary control panel located inside the controller cabinet with a flash-automatic switch and a controller on-off switch. See Section 9-29.13(5) for operational requirements. A three wire 15 ampere plug receptacle with grounding contact and 15 ampere ground fault interrupter shall also be provided on the panel.

6. A conflict monitor conforming to NEMA standards. See Section 9-29.13(5) for operational requirements. The unit shall monitor conflicting signal indications at the field connection terminals. The unit shall be wired in a manner such that the signal will revert to flash if the conflict monitor is removed from service.

Supplemental loads not to exceed 10 watts per monitored circuit or other means, shall be provided to prevent conflict monitor actuation caused by dimming or lamp burn-out. Supplemental loads shall be installed on the control side of the field terminals. Conflict monitors shall include a minimum of one indicator light for each phase used. The monitoring capacity of the unit shall be compatible with the controller frame size. Conflict monitors shall include a program card.

7. A “Detector Panel”, as specified in Standard Specification Section 9-29.13(10)B, shall be installed. The panel shall be mounted on the inside of the front cabinet door. The detector panel shall be constructed as a single unit. Detector switches with separate operate, test, and off positions shall be provided for each field detector input circuit. A high intensity light emitting diode (LED) shall be provided for each switch. The lamp shall energize upon vehicle, pedestrian or test switch actuation. The test switch shall provide a spring loaded momentary contact that will place a call into the controller. When in the OFF position, respective detector circuits will be disconnected. In the operate position, each respective detector circuit shall operate normally. Switches shall be provided on the panel with labels and functions as follows:

   a. Display On — Detector indicator lights shall operate consistent with their respective switches.

   b. Display Off — detector indicator lights shall be de-energized.

   A means of disconnecting all wiring entering the panel shall be provided. The disconnect shall include a means to jumper detection calls when the display panel is disconnected. All switches on the panel shall be marked with its associated Plan detector number. All markers shall be permanent.
8. Insulated terminal blocks of sufficient number to provide a termination for all field wiring. A minimum of 12 spare terminals shall be provided. Field wire connection terminal blocks shall be 600 volt, heavy duty, barrier type, except loop detector lead-ins, which may be 300 volt. The 600 volt type-terminal strips shall be provided with a field-side and a control-side connector separated by a marker strip. The 300 volt type shall have a marker strip, installed on the right side of vertical terminal strips or below horizontal terminal strips. The marker strip shall bear the circuit number indicated in the plans and shall be engraved. Each connector shall be a screw type with No. 8 post capable of accepting no less than three 12 AWG wires fitted with spade tips.

9. A vent fan with adjustable thermostat. The minimum CFM rating of the fan shall exceed three times the cabinet volume.

10. VACANT

11. All wiring within the cabinet, exclusive of wiring installed by the signal controller manufacturer, shall have insulation conforming to the requirements of Section 9-29.3. Cabinet wiring shall be trimmed to eliminate all slack and shall be laced or bound together with nylon wraps or equivalent. All terminals, shall be numbered and permanently identified with PVC or polyolefin wire marking sleeve consistent with the cabinet wiring diagram provided by the signal controller manufacturer and the Contract. The cabinet will be completely wired so that the only requirement to make a field location completely operational is to attach field power and ground wiring. Internal cabinet wiring shall not utilize the field side connections of the terminal strip intended for termination of field wires.

12. Cabinet wiring diagram and component wiring diagrams meeting the requirements of 9-29.13(7) shall be furnished with each cabinet. Each cabinet shall be equipped with a, shelf mounted roll out drawer mounted directly below the controller to house one or more cabinet wiring diagrams. The cabinet wiring diagram shall indicate and identify all wire terminations, all plug connectors, and the locations of all equipment in the cabinet. Included in the diagram shall be an intersection sketch identifying all heads, detectors, and push buttons; and a phase diagram.

13. Each vehicle detector amplifier, video detection output channel pedestrian call isolation unit, phase selector, discriminator, and load switch shall be identified with semi-permanent stick-on type label. The following information shall be included:

a. Vehicle Detector Amplifier Channel
1. Loop number
2. Assigned phase(s)

b. Ped Call Isolation Unit
   1. Push button number
   2. Assigned phase(s)

c. Load Switches
   1. Signal head number
   2. Assigned phase(s)

d. Phase Selectors
   1. Circuit Letter
   2. Phase(s) called

The label shall be placed on the face of the unit. It shall not block any switch, light, or operational words on the unit. The lettering on this label shall be neat, legible, and easily read from a distance of approximately 6-feet.

9-29.13(10)B Auxiliary Equipment for Type 170E, 2070 Assemblies
The following requirements apply to required auxiliary equipment furnished with Type 170E, 170E-HC-11 and 2070 controllers:

A. Flashers, flash transfer relays, conflict monitor, AC isolators, DC isolators, discriminator modules, program modules, modem modules, breakers, buses, police panel switches, receptacle requirement, vent fan and auxiliary control panel switches shall conform to the requirements noted in the TEES.

B. Flashing operation shall conform to Section 9-29.13(5), except the 6-second flash period described in Item 2 of that section will not be required. Emergency preemption shall conform to Section 9-29.13(6).

C. Input and output terminals shall be installed with a marking strip with field wire numbers noted in the Contract embossed on the strip. All cabinet and field conductor shall have a PVC or polyolefin wire marking sleeve installed, matching the input and output terminals above. Marking on sleeves shall be embossed or type written.
D. The input panel terminal blocks TB 2 through TB 9 and associated cable to the input files as described in the TEES shall be provided in all control assemblies.

E. Supplemental load resistor, not less than 2000 ohms and not greater than 5000 ohms not to exceed 10 watts per monitored circuit, shall be provided to prevent conflict monitor actuation caused by dimming or lamp burn-out.

An individual supplemental load resistor shall be installed within the output file, and shall be installed on each of the following terminal circuits:

| FT1-105 (SP 4P-Y) | FT1-111 (SP 8P-Y) | FT2-114 (SP 2P-Y) | FT2-120 (SP 6P-Y) |
| FT2-117 (SP 3-Y) | FT2-118 (SP 3-G) | FT2-123 (SP 7-Y) | FT2-124 (SP 7-G) |
| FT3-126 (SP 1-Y) | FT3-127 (SP 1-G) | FT3-132 (SP 5-Y) | FT3-133 (SP 5-G) |

F. Load switches of sufficient quantity to fully populate the output files shall conform to TEES and shall have indicator lights on input and output circuits.

G. A detection panel, which shall be constructed as a single unit. Detector switches with separate operate, test, and off positions shall be provided for each field detector input circuit. A high intensity light emitting diode (LED) shall be provided for each switch. The lamp shall energize upon vehicle, pedestrian or test switch actuation. The test switch shall provide a spring loaded momentary contact that will place a call into the controller. When in the OFF position, respective detector circuits will be disconnected. In the operate position, each respective detector circuit shall operate normally. Switches shall be provided on the panel with labels and functions as follows:

a. **Display On** — Detector indicator lights shall operate consistent with their respective switches.

b. **Display Off** — detector indicator lights shall be de-energized.

A means of disconnecting all wiring entering the panel shall be provided. The disconnect shall include a means to jumper detection calls when the display panel is disconnected. All switches on the panel shall be marked with its associated Plan detector number. All markers shall be permanent.

H. A “Detector Termination and Interface Panel” shall be provided. When viewing the cabinet from the back, the panel shall be located on the upper left hand side of the cabinet. The panel shall be electrically located
between the "detection Panel" and the C-1 connector. The panel shall utilize insulated terminal blocks and each connector shall be a screw type with post.

I. Each switchpack socket shall have pin 11 common to Neutral.

J. The AC input Service Panel Assembly (SPA), line voltage filter, transient surge protection and all neutral bus bars and equipment ground bus bars shall be on the right side of the cabinet, mounted no more that 18 inches from the bottom of the cabinet when viewed from the rear, and meet the requirements described in TEES.

K. The PED yellow terminals on the CMU edge connector shall be extended with a 2 foot wire, coiled, heat shrink tipped and labeled for the correct corresponding terminal as CH-13Y/CMU-8, CH-14Y/CMU-11, CH-15Y/CMU-K, CH-16Y/CMU-N.

L. An "Absence Of Red Programming Assembly" shall be provided. There shall be provided on the back panel of the output file, 17 accessible jumper plug attachment areas, made up of three male pins per position (one, for each conflict monitor channel and one for red enable function). Each jumper plug shall be a two position connector, It shall be possible, by inserting and positioning one of the 16 connectors on the right two pins on the monitor board, to apply 120 VAC into a corresponding channel of the conflict monitor red channels. The connection between the red monitor board and the conflict monitor shall be accomplished via a 20 pin ribbon cable and the industry standard P-20 connector that attaches on the front panel of the monitor. It shall be possible, by inserting and positioning one of the 16 jumper plugs on the two left pins on the monitor board, to enable the corresponding channel to monitor for red fault by the conflict monitor. There shall be installed on the red monitor board a red fail monitor disable function that controls the 120 VAC red enable signal into the conflict monitor. During stop-and-go operation, 120VAC is sent via pin #20 on the P20 connector to enable red failure monitoring on the conflict monitor by having the connector moved to the side labeled "Red Enable". If this is disengaged by moving the connector to the side labeled "Red Relay", then 120VAC is removed from pin #20, and the conflict monitor will no longer monitor for red fail faults. The red enable function will also be wired such that if the traffic signal is in cabinet flash, then there will be no voltage on pin #20, and the conflict monitor will not monitor for red fail faults.

M. Each cabinet shall be provided with at least 20 empty neutral connections to accommodate field wiring. The neutral bus bars shall be of the style in which a lug is not needed to be applied to the neutral field wire(s). All of
the neutral bars shall be secured in accordance with the TEES. All neutral bars shall be at the same electrical potential.

N. The main breaker on the SPA shall be provided with a cover to prevent accidental tripping. The cover shall be removable and replaceable without the use of tools. VACANT

O. **Equipment Branch Breaker** – The duplex receptacle on the rear of either PDA #2L or 3L shall be wired in parallel with the ground fault current interrupt receptacle on the front of the power supply. The ground fault current interrupt receptacle being in the “Test” mode shall not remove power to the rear receptacle.

9-29.13(10)C NEMA Controller Cabinets

Each NEMA traffic controller shall be housed in a weatherproof cabinet conforming to the following requirements:

1. Construction shall be of 0.073-inch minimum thickness series 300 stainless steel or 0.125 minimum thickness 5052 H32 ASTM B209 alloy aluminum. The stainless steel shall be annealed or one-quarter-hardness complying with ASTM A666 stainless steel sheet. Cabinets may be finished inside with an approved finish coat of exterior white enamel. If no other coating is specified in the Contract Provisions the exterior of all cabinets shall be bare metal. All controller cabinets shall be furnished with front and rear doors.

2. The cabinet shall contain shelving, brackets, racks, etc., to support the controller and auxiliary equipment. All equipment shall set squarely on shelves or be mounted in racks and shall be removable without turning, tilting, or rotating or relocating one device to remove another. A 24 slot rack or racks shall be installed. The rack(s) shall be wired for 2 channel loop detectors and as follows. Slots 1 & 2 phase 1 loop detectors. Slots 3, 4, & 5 phase 2 loop detectors. Slots 6 & 7 phase 3 loop detectors. Slots 8, 9, & 10 phase 4 loop detectors. Slots 11 & 12 phase 5 loop detectors. Slots 13, 14, & 15 phase 6 loop detectors. Slots 16 & 17 phase 7 loop detectors. Slots 18, 19 & 20 phase 8 loop detectors. Slot 21 upper phase 1 loop detector. Slot 21 lower phase 5 detector. Slot 22 wired for a 2 channel discriminator channels A, C. Slot 23 wired for a 2 channel discriminator, channels B, D. Slot 24 wired for a 4 channel discriminator, wired for channel A, B, C, and D. All loop detector slots shall be wired for presence/pulse detection/extension. If an external power supply is required in order for the entire racks(s) to be powered it shall be installed. All rack(s) slots shall be labeled with engraved identification strips.

3. Additional detection utilizing the “D” connector shall be installed in accordance with the Contract. The cabinet shall be of adequate size to
properly house the controller and all required appurtenances and auxiliary
equipment in an upright position with a clearance of at least 3-inches
from the vent fan and filter to allow for proper air flow. In no case shall
more than 70 percent of the cabinet volume be used. There shall be at
least a 2-inch clearance between shelf mounted equipment and the cabinet
wall or equipment mounted on the cabinet wall.

4. The cabinet shall have an air intake vent on the lower half of the front
doors, with a 12-inch by 16-inch by 1-inch removable throw away filter,
secured in place with a spring-loaded framework.

5. The cabinet door(s) shall be provided with:

a. Cabinet doors shall each have a three point latch system. Locks shall
be spring loaded construction locks capable of accepting a Best 6 pin
core. A 6 pin construction core of type (blue, green, or Red) specified
in the contract shall be installed in each core lock. One core removal
key and two standard keys shall be included with each cabinet and
delivered to the Engineer.

b. A police panel assembly shall be installed in the front door and shall
have a stainless steel hinge pin and a police panel lock. Two police
keys with shafts a minimum of 1¾-inches long shall be provided
with each cabinet.

c. All doors and police panel door shall have one piece, closed cell,
neoprene gaskets.

d. A two position doortop assembly.

6. Fluorescent fixtures or LED light strips (only one type per cabinet) for
cabinet lighting. Color temperature shall be 4100K (cool white) or
higher. Fluorescent fixtures shall use 12 inch (nominal), 8W, type T5
shatterproof tubular bulbs. LED light strips shall be approximately 12
inches long, and have a minimum output of 320 lumens. Lighting shall
be ceiling mounted and oriented parallel to the door face. Lighting shall
not interfere with the proper operation of any other ceiling mounted
equipment. All lighting fixtures shall energize whenever any door is
opened. Each door switch shall be labeled “Light”.

9-29.13(10)D Cabinets for Type 170E and 2070 controllers
Type 170E and 2070 controllers shall be housed in a model 332L cabinet unless
specified otherwise in the contract. Type 332L cabinets shall be constructed in
accordance with TEES with the following modifications:
1. Each door shall be furnished with the equipment listed in Standard Specifications 9-29.13(10)C item 5 above.

2. The cabinet shall be furnished with auxiliary equipment described in Standard Specification 9-29.13(10)B.

3. The cabinet shall be fabricated of stainless steel or sheet aluminum in accordance with Section 9-29.13(10)C, Item 1 above. Painted steel, painted or anodized aluminum is not allowed.

4. A disposable paper filter element with dimensions of 12” x 6” x 1” shall be provided in lieu of a metal filter. The filter shall be secured in the filter holder with a louvered aluminum cover. The maximum depth of the cover shall not be more than 0.5” inch to provide the filter to be flush against the door. No incoming air shall bypass the filter element.

5. Field wire terminals shall be labeled in accordance with the Field Wiring Chart.

6. Fluorescent fixtures or LED light strips (only one type per cabinet) for cabinet lighting. Fluorescent fixtures shall use 12 inch (nominal), 8W, type T5 tubular bulbs. Tubular bulbs shall be contained within a shatterproof lamp cover. Led strips shall be approximately 12 inches long, and have a minimum output of 320 lumens. There shall be one fixture for each rack within the cabinet. Lighting shall be ceiling mounted and oriented perpendicular to the door face. Rack mounted lights are not allowed. Lighting shall be positioned such that the fixture is centered between the front and rear of the cabinet. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. Each lighting fixture shall energize automatically when either door to that respective rack is opened. Each door switch shall be labeled “Light”.

7. One drawer shelf, as shown in the TEES

8. 332D Controller Cabinet

   a. The 332D Controller cabinet shall have the appearance of two Type 332 controller cabinets joined at opposing sides. The outside Dimensions of the cabinet shall be 67” High X 48 1/2” Wide X 30 1/4” Deep.

   b. The right side of the cabinet, as viewed from the front, shall be considered the Signal Control side. The left side of the cabinet, when viewed from the front, shall be considered the ITS/COMM side.
c. One police access panel shall be installed on the right side of the cabinet, as viewed from the front.

d. Two cabinet lights shall be provided one on each side and as described in section 9-29.13(10)D.6

e. Vacant

f. The Traffic Signal Control side of the cabinet shall contain the Traffic Signal Controller assembly and shall be furnished with equipment as described in the contract specifications. The Traffic Signal Control side of the cabinet shall also meet all the additional equipment requirements of the Type 332 Signal Controller cabinet as indicated in the contract specifications.

g. The ITS/COMM side of the cabinet shall contain ITS and Communication equipment and shall be furnished with the following:

1. One controller shelf unit, mounted 36 inches from the bottom of the cabinet opening to the front of the cabinet and attaching to the front rails of the EIA rack, shall be provided. The shelf shall be fabricated from aluminum and shall contain a rollout flip-top drawer for storage of wiring diagrams and manuals.

2. One aluminum sheet metal panel, 1/8” x 15” x 54”, shall be installed to the rear of the cabinet on the right hand (when facing the front) side raling.

3. Additional ITS and Communication equipment as described in the Contract Plans and the ITS section of the Contract Special Provisions.

9-29.13(11) Traffic Data Accumulator and Ramp Meters
All cabinets designated for use as a traffic data or ramp meter shall be Type 334L cabinets furnished to meet the TEES with the modifications listed in Section 9-29.13(10)D and include the following accessories:

1. Each cabinet shall be equipped with a fully operable controller equipped as specified in the Contract Provisions.

2. Two input files, shall be provided.

3. The PDA #3L shall contain three Model 200 Load Switches. A second transfer relay, Model 430, shall be mounted on the rear of the PDA #3L and wired as shown in the Plans.
4. Police Panel shall contain only one DPDT toggle switch. The switch shall be labeled POLICE CONTROL, ON-OFF.

5. Display Panel

A. General
Each cabinet shall be furnished with a display panel. The panel shall be mounted, showing and providing detection for inputs and specified controller outputs, at the top of the front rack above the controller unit. The display panel shall be fabricated from brushed aluminum and constructed according to the detail in the Plans.

B. Text
All text on the detector panel shall be black in color and silk screened directly to the panel except the Phenolic detector and cabinet nameplates.

A nameplate for each loop shall be engraved with a ¼-inch nominal text according to the ITS Field Wiring Charts. The nameplates shall be permanently affixed to the detector panel.

C. LEDs
The LEDs for the display panel shall meet the following Specifications:

<table>
<thead>
<tr>
<th>Case size</th>
<th>T 1-¾</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viewing angle</td>
<td>50° minimum</td>
</tr>
<tr>
<td>Brightness</td>
<td>8 Milli candelas</td>
</tr>
</tbody>
</table>

LEDs with RED, YELLOW or GREEN as part of their labels shall be red, yellow or green in color. All other LEDs shall be red. All LEDs shall have tinted diffused lenses.

D. Detector panel Control Switch
Each display panel shall be equipped with one detector display control switch on the panel with labels and functions as follows:

ON
Detector panel LEDs shall operate consistent with their separate switches.

OFF
All detector indicator LEDs shall be de-energized. Detector calls shall continue to reach the controller.

TEST
All detector indicator LEDs shall illuminate and no calls shall be placed to the controller.
E. **Advance Warning Sign Control Switch**
Each display panel shall be equipped with one advance warning sign control switch on the panel with labels and functions as follows:

**AUTOMATIC**
Sign Relay shall energize upon ground true call from controller.

**SIGN OFF**
Sign Relay shall de-energize.

**SIGN ON**
Sign Relay shall energize.

F. **Sign Relay**
The sign relay shall be plugged into a socket installed on the rear of the display panel. The relay shall be wired as shown in the Plans. The relay coil shall draw (or sink) 50 milliamperes ± 10% from the 170E/HC11 controller and have a DPDT contact rating not less than 10 amperes. A 1N4004 diode shall be placed across the relay coil to suppress voltage spikes. The anode terminal shall be connected to terminal #7 of the relay as labeled in the Plans. The relay shall energize when the METERING indicator LED is lit.

G. **Detector Input Indicators**
One LED and one spring-loaded two-position SPST toggle switch shall be provided for each of the 40 detection inputs. These LEDs and switches shall function as follows:

**TEST**
When the switch is in the test position, a call shall be placed to the controller and energize the associated LED. The switch shall automatically return to the run position when it is released.

**RUN**
In the run position the LEDs shall illuminate for the duration of each call to the controller.

H. **Controller Output Indicators**
The display panel shall contain a series of output indicator LEDs mounted below the detection indicators. The layout shall be according to the detail in the Plans. These LEDs shall illuminate upon a ground true output from the controller via the C5 connector.

The output indicator LEDs shall have resistors in series to drop the voltage from 24 volts DC to their rated voltage and limit current below their rated current. The anode connection of each LED to +24 VDC shall be wired through the resistor.
I. Connectors

Connection to the display panel shall be made by three connectors, one pin (labeled P2) and one socket (labeled P1) and one labeled C5. The P1 and P2 connectors shall be 50-pin cannon D series, or equivalent 50 pin connectors and shall be compatible such that the two connectors can be connected directly to one another to bypass the input detection. Wiring for the P1, P2 and C5 connectors shall be as shown in the Plans.

The Contractor shall install wire connectors P1, P2, C1P, C2, C4, C5 and C6 according to the pin assignments shown in the Plans.

6. Model 204 Flasher Unit

Each Model 334 ramp meter cabinet shall be supplied with one Model 204 sign flasher unit mounted on the right rear side panel. The flasher shall be powered from T1-2. The outputs from the flasher shall be wired to T1-5 and T1-6.

7. Fiber Optic Patch Panel

The Contractor shall provide and install a rack-mounted fiber optic patch panel as identified in the Plans.

Cabinet Wiring

Terminal blocks TB1 through TB9 shall be installed on the Input Panel. Layout and position assignment of the terminal blocks shall be as noted in the Plans.

Terminals for field wiring in traffic data and/or ramp metering controller cabinet shall be labeled, numbered and connected in accordance with the following:

<table>
<thead>
<tr>
<th>Terminal Block Pos.</th>
<th>Terminal and Wire Numbers</th>
<th>Connection Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBS</td>
<td>501-502</td>
<td>AC Power, Neutral</td>
</tr>
<tr>
<td>T1-2</td>
<td>641</td>
<td>Sign on</td>
</tr>
<tr>
<td>T1-4</td>
<td>643</td>
<td>Sign off</td>
</tr>
<tr>
<td>T1-5</td>
<td>644</td>
<td>Flasher Output NC</td>
</tr>
<tr>
<td>T1-6</td>
<td>645</td>
<td>Flasher Output NO</td>
</tr>
<tr>
<td>T4-1</td>
<td>631</td>
<td>Lane 3 - Red</td>
</tr>
<tr>
<td>T4-2</td>
<td>632</td>
<td>Lane 3 – Yellow</td>
</tr>
<tr>
<td>T4-3</td>
<td>633</td>
<td>Lane 3 – Green</td>
</tr>
<tr>
<td>T4-4</td>
<td>621</td>
<td>Lane 2 - Red</td>
</tr>
<tr>
<td>T4-5</td>
<td>622</td>
<td>Lane 2 - Yellow</td>
</tr>
<tr>
<td>T4-6</td>
<td>623</td>
<td>Lane 2 – Green</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>T4-7</td>
<td>611</td>
<td>Lane 1 – Red</td>
</tr>
<tr>
<td>T4-8</td>
<td>612</td>
<td>Lane 1 – Yellow</td>
</tr>
<tr>
<td>T4-9</td>
<td>613</td>
<td>Lane 1 – Green</td>
</tr>
</tbody>
</table>

Loop lead-in cables shall be labeled and connected to cabinet terminals according to the ITS Field Wiring Chart. This chart will be provided by the Engineer within 20 days of the Contractor’s request.

9-29.13(12) ITS cabinet:
Basic ITS cabinets shall be Model 334L Cabinets, unless otherwise specified in the Contract. Type 334L Cabinets shall be constructed in accordance with the TEES, with the following modifications:

1. The basic cabinet shall be furnished with only Housing 1 B, Mounting Cage 1, Service Panel #1, a Drawer Shelf, and Controller Unit Supports. Additional equipment may be specified as part of the cabinet function-specific standards.

2. Housing aluminum shall be 5052 alloy with mill finish. Painted or anodized aluminum is not allowed.

3. The door air filter shall be a disposable paper filter element of at least 180 square inches.

4. Locks shall be spring loaded construction core locks capable of accepting a Best 6-pin core. A 6-pin construction core of the type (Blue, Green, or Red) specified in the Contract shall be installed in each core lock. One core removal key and two standard keys (properly marked) shall be included with each cabinet and delivered to the Engineer upon Contract completion.

5. Each cabinet shall include a 120VAC electric strip heater with a rating of 100 watts, which shall be thermostat controlled. The heater strip shall be fed by wire with a temperature rating of 400°F or higher, and shall be shielded to prevent contact with wiring, equipment, or personnel. If the heater thermostat is separate from the fan thermostat, the heater thermostat must meet the same requirements as the fan thermostat as defined in TEES.

6. Fluorescent fixtures or LED light strips (only one type per cabinet) for cabinet lighting. Color temperature shall be 4100K (cool white) or higher. Fluorescent fixtures shall use 12 inch (nominal), 8W, type T5 tubular bulbs contained within a shatterproof lamp cover. LED light strips shall be approximately 12 inches long, and have a minimum output of 320 lumens. There shall be two fixtures for each rack within the cabinet. Lighting shall be ceiling mounted and oriented parallel to the door face – rack mounted lighting is not permitted. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. All lighting
fixtures above a rack shall energize whenever either door to that respective rack is opened. Each door switch shall be labeled “Light”.

7. Each cabinet shall be equipped with a power distribution assembly (PDA) mounted in a standard EIA 19-inch (ANSI/EIA RS-310-C) rack utilizing no more than five Rack Mounting Units (RMU) (8.75 inches). The PDA shall include the following equipment:

a. One duplex NEMA 5-15R GFCI receptacle on the front of the PDA.

b. Four duplex NEMA 5-15R receptacles on the rear of the PDA. These receptacles shall remain energized on a trip or failure of the GFCI receptacle.

c. Four 1P-15A, 120VAC Equipment/Field Circuit Breakers.

d. Line filter meeting the requirements of 9-29.13(10)A.d.

PDA components shall be mounted in or on the PDA such that they are readily accessible, provide dead front safety, and all hazardous voltage points are protected to prevent inadvertent contact.

8. Service Panel #1 shall include a service terminal block labeled “TBS”, a Tesco TES-10B or equivalent surge suppressor connected to provide power in line surge suppression, and a 1P-30A Main Breaker. The Service Panel Assembly (SPA) shown in the TEES shall not be included.

9. Each cabinet shall include a rack mounted fiber optic patch panel of the type specified in the Contract.

Cabinet drawings and wiring diagrams shall be provided in the drawer shelf. Additionally, an electronic (PDF format) copy of all drawings and wiring diagrams shall be provided.

9-29.16(1)A1 Conventional Optical System
This section’s title is revised to read:

9-29.16(1)A1 Non-LED Optical System

9-29.16(1)D1 Electrical - Conventional
This section’s title is revised to read:

9-29.16(1)D1 Electrical – Non-LED

9-29.20 Pedestrian Signals
This section is revised to read:
Pedestrian signals shall be Light Emitting Diodes (LED) type.

The LED pedestrian signal module shall be operationally compatible with controllers and conflict monitors. The LED lamp unit shall contain a disconnect that will show an open switch to the conflict monitor when less than 60 percent of the LEDs in the unit are operational.

The Pedestrian signal heads shall be on the QPL or the Contractor shall submit a Manufacturer's Certificate of Compliance, in accordance with Standard Specification 1-06.3, with each type of signal head. The certificate shall state that the lot of pedestrian signal heads meet the following requirements:

1. All pedestrian signal heads shall be a Walk/Don’t Walk module with a countdown display.

2. All pedestrian displays shall comply with the MUTCD and ITE publication ST 011B, VTCSh2 or current ITE Specification and shall have an incandescent appearance. The Contractor shall provide test results from a Nationally Recognized Testing Laboratory documenting that the LED display conforms to the current ITE and the following requirements:
   a. All pedestrian signals supplied to any one project shall be from the same manufacturer and type but need not be from the same manufacturer as the vehicle heads.
   b. Each pedestrian signal face shall be a single unit housing with the signal indication size, a nominal 16 inch x 18 inch with side by side symbol messages with countdown display.
   c. Housings shall be green polycarbonate or die-cast aluminum and the aluminum housings shall be painted with two coats of factory applied traffic signal green enamel (Federal Standard 595-14056). All hinges and latches and interior hardware shall be stainless steel.

3. Optical units for traffic signal displays shall conform to the following:
   a. Pedestrian “RAISED HAND” and “WALKING PERSON” modules shall be the countdown display type showing the time remaining in the pedestrian change interval. When the pedestrian change interval is reduced due to a programming change, the display may continue to show the previous pedestrian change interval for one signal cycle. During the following pedestrian change interval the countdown shall show the revised time, or shall be blank. In the event of an emergency vehicle preemption, during the following two cycles, the display shall show the programmed pedestrian change interval or be blank. In the event the controller is put in stop time during the pedestrian change interval, during the following two cycles the
display shall show the programmed clearance or be blank. In the event there
is railroad preempt during the pedestrian change interval, during the following
two cycles the display shall show the programmed clearance or be blank.
Light emitting diode (LED) light sources having the incandescent appearance
are required for Portland Orange Raised Hand and the Lunar White Walking
Person.

4. LED displays shall conform to the following:

Walking Person, 15 watts.
b. Voltage: The operating voltages shall be between 85 VAC and 135 VAC.
c. Temperature: Temperature range shall be -35° F to +165° F.
d. LED pedestrian heads shall be supplied with Z crate visors. Z crate visors
shall have 21 members at 45 degrees and 20 horizontal members.

9-29.20(1) LED Pedestrian Displays
This section is deleted.

9-29.20(2) Neon Grid Type
This section is deleted.

9-29.24 Service Cabinets
In the first paragraph, the lettered items A-J are re-lettered to read B-K respectfully.
The first paragraph is supplemented with the following new lettered item:

A. Display an arc flash warning label that meets the requirements of ANSI Z535.

9-29.25 Amplifier, Transformer, and Terminal Cabinets
In item No. 2.C., “Transformer 23.1 to 12.5 KVA” is revised to read “Transformer 3.1 to 12.5
KVA” and the height column value of 40” is revised to read “48”.
The first and second sentences in the first paragraph are revised to read:
Amplifier and terminal and transformer cabinets shall be NEMA 3R and the following:

Item number 5 is revised to read:

5. All cabinets shall provide a gasketed door flange

Item number 7 is revised to read:

7. Insulated terminal blocks shall be 600 volt, heavy-duty, barrier type. The terminal
blocks shall be provided with a field-side and a control-side connector separated by a
marker strip. One spare 12-position insulated terminal block shall be installed in each
terminal cabinet and amplifier cabinet.

Item number 8 is revised to read:

8. Each non-pad mounted Terminal, Amplifier and Transformer cabinet shall have 1/4
inch drain holes in back corners. Each pad mounted Terminal, Amplifier and
Transformer cabinet shall drain to a sump and through a 3/8 inch diameter drain pipe to
grade as detailed in the Standard Plans.

Item number 10 is revised to read:

10. Transformer cabinets shall have two separate compartments, one for the transformer
and one for the power distribution circuit breakers. Each compartment shall be enclosed
with a dead front. Each breaker shall be labeled with the device name by means of a
screwed or riveted engraved name plate.

SECTION 9-34, PAVEMENT MARKING MATERIAL

August 5, 2013

9-34.2 Paint

The second paragraph is revised to read:

Blue and black paint shall comply with the requirements for yellow paint in Section 9-
34.2(4) and Section 9-34.2(5), with the exception that blue and black paints do not need to
meet the requirements for titanium dioxide, directional reflectance, and contrast ration.

9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate

The column headings in the table titled “98:2 Formulations Type D – Liquid Cold Applied
Methyl Methacrylate” are revised to read:

<table>
<thead>
<tr>
<th>Property Test Method</th>
<th>D-1</th>
<th>D-2</th>
<th>D-3</th>
<th>D-4</th>
<th>D-5</th>
<th>D-6</th>
</tr>
</thead>
</table>
SPECIAL PROVISIONS
SPECIAL PROVISIONS

C 3288 - TERRACE HEIGHTS DR & BUTTERFIELD RD INTERSECTION
SIGNALIZATION PROJECT,

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, 2012 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.
DIVISION 1
GENERAL REQUIREMENTS

DESCRIPTION OF WORK

(******)

The work to be performed under this Contract consists of grading, drainage, placing and compacting base course and top course, constructing curb and gutter and sidewalk, sidewalk ramps, placing hot mix asphalt, and other work. This work also includes the installation of a signal system. All of this work shall be in accordance with the attached Plans, these Special Provisions and the 2012 Standard Specifications and Amendments thereto.

The portion of Butterfield Road to be improved is located in Section 12, Township 12 North, Range 16 East, Willamette Meridian.

The quantities of work indicated in the proposal are to be considered as estimates and are for comparative bidding purposes only. All payments shall be made on the basis of actual field measurement of Contract work completed.

FUNDS

(******)

Federal and Yakima County Road funds are involved in the construction of these improvements.

SECTION 1-01 DEFINITIONS AND TERMS

1-01.3 DEFINITIONS
(March 8, 2013 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 “State”, “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 “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 final payment form established by the Contracting Agency.

The venue of all causes of action arising from the advertisement, award, execution, and performance of the contract shall be in the Superior Court of the County where the Contracting Agency’s headquarters are located.

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

Alternate
One of two or more units of work or groups of bid items, identified separately in the Bid Proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.
Business Day
A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

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

Contract Documents
See definition for “Contract”.

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

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

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

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

1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this Section and replace it with the following:

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

Before award of a public works contract, a bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public works project.
1-02.2 Plans and Specifications

(June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

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

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

<table>
<thead>
<tr>
<th>To Prime Contractor</th>
<th>No. of Sets</th>
<th>Basis of Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduced plans (11&quot; x 17&quot;)</td>
<td>6</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Contract Provisions</td>
<td>6</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Large plans (e.g., 22&quot; x 34&quot;)</td>
<td>0</td>
<td>Furnished only upon request.</td>
</tr>
</tbody>
</table>

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.

1-02.5 Proposal Forms

(June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder’s name, address, telephone number, and signature; the bidder’s D/M/WBE commitment, if applicable; a State of Washington Contractor’s Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.
1-02.7 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
(August 15, 2012 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 DBE Written Confirmation Documents or Good Faith Effort Documentation, then to be considered responsive, the Bidder shall submit with their Bid Proposal, written Confirmation Documentation from each DBE firm listed on the Bidder’s completed DBE Utilization Certification, form 272-056A EF, as required by Section 1-02.6.

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.
1-02.12 Public Opening of Proposals
(May 4, 2012 APWA GSP)

Delete this section and replace it with the following:

Proposals will be opened and publicly read at the time indicated in the Call for Bids, after the deadline(s) for submitting all elements of the Bid Proposal including DBE Written Confirmation Documents and/or Good Faith Effort Documentation, unless the Bid opening has been delayed or canceled. Bidders, their authorized agents, and other interested parties are invited to be present.

1-02.13 Irregular Proposals
(March 13, 2012 APWA GSP)

Revise item 1 to read:

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 a Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
   i. The Bidder fails to submit written confirmation from each DBE firm listed on the Bidder’s completed DBE Utilization Certification that they are in agreement with the bidders DBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
   j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award 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.
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.

SECTION 1-03 AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids

Revise the first paragraph to read:

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

1-03.3 Execution of Contract

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 _10_ additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond

Section 1-03.4 is supplemented with the following:

(August 5, 2013)

Release of Contract Bond will be 60 days following the Contract Completion date and Notice of Completion (NOC) being sent to the Washington State Department of Labor and Industries, Washington State Department of Revenue and Washington State Employment Security Department, provided following conditions are met:

1. Payment to the State with respect to taxes imposed pursuant to Title 82, RCW on Contracts totaling more than $ 35,000, a release has been obtained from the Washington State Department of Revenue.

2. Affidavits of Wages Paid for the Contractor and all Subcontractors are on file with the Contracting Agency (RCW 39.12.040).

3. A certificate of Payment of Contributions Penalties and Interest on Public Works Contract is received from the Washington State Employment Security Department.

4. Washington State Department of Labor and Industries (per Section 1-07.10) shows the Contractor, Subcontractor(s) and any lower tier Subcontractor(s) are current with payments of industrial insurance and medical aid premiums.

5. All claims, as provided by law, filed against the Contract Bond have been resolved.

SECTION 1-04 SCOPE OF 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.

SECTION 1-05 CONTROL OF WORK

1-05.7 Removal of Defective and Unauthorized Work

(October 1, 2005 APWA GSP)

Supplement this section with the following:

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

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

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

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

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

1-05.11 Final Inspection

Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing
(October 1, 2005 APWA GSP)

1-05.11(1) Substantial Completion Date

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

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

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

The above process shall be repeated until the Engineer establishes the Substantial Completion Date and the Contractor considers the work physically complete and ready for final inspection.
1-05.11(2) Final Inspection and Physical Completion Date

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

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

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

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

1-05.11(3) Operational Testing

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

The costs for power, gas, labor, material, supplies, and everything else needed to successfully complete operational testing, shall be included in the unit contract prices related to the system being tested, unless specifically set forth otherwise in the proposal.
Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the contract.

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

Delete the sixth and seventh paragraphs of this section.

1-05.15 Method of Serving Notices
(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.

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

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

Add the following new section:

1-05.17 Oral Agreements
(October 1, 2005 AWPA GSP)

No oral agreement or conversation with any officer, agent, or employee of the Contracting Agency, either before or after execution of the contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the contract. Such oral agreement or conversation shall be considered as unofficial information and in no way binding upon the Contracting Agency, unless subsequently put in writing and signed by the Contracting Agency.

SECTION 1-06 CONTROL OF MATERIAL

1-06 Buy America

Section 1-06 is supplemented with the following:
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.
2. Rolling, heat treating, and any other similar processing.

3. Fabrication of the products.
   a. Spinning wire into cable or strand.
   b. Corrugating and rolling into culverts.
   c. Shop fabrication.

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

1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws to be Observed

(October 1, 2005 APWA GSP)

Supplement this section with the following:

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

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

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

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

1-07.2 State Taxes

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

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

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

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

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

(June 27, 2011)
The Contracting Agency will release the Contract Bond only if the Contractor has obtained from the State Department of Revenue a certificate showing that all Contract-related taxes have been paid.

1-07.2(1) State Sales Tax — Rule 171

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.
1.07.2(2) State Sales Tax — Rule 170

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

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

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

1.07.2(3) Services

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

1.07.6 Permits and Licenses

(March 13, 1995)

No hydraulic permits are required for this project unless the Contractor's operations use, divert, obstruct, or change the natural flow or bed of any river or stream, or utilize any of the waters of the State or materials from gravel or sand bars, or from stream beds.

1.07.7 Load Limits

(March 13, 1995)

If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.
1-07.9 Wages

General

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

(January 8, 2013)
The Federal wage rates incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA130001.

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

(April 2, 2007)
Application of Wage Rates for the Occupation of Landscape Construction
State prevailing wage rates for public works contracts are included in this contract and show a separate listing for the occupation:

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

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

Laborers with the occupation description, Landscaping or Planting, or

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

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

Contractors are responsible for determining the appropriate crafts necessary to perform the contract work. If a classification considered necessary for performance of the work is missing from the Federal Wage Determination applicable to the contract, the Contractor shall initiate a request for approval of a proposed wage and benefit rate. The Contractor shall prepare and submit Standard Form 1444, Request for Authorization of Additional Classification and Wage Rate available at http://www.wdol.gov/docs/sf1444.pdf, and submit the completed form to the Project Engineer’s office. The presence of a classification wage on the Washington State Prevailing Wage Rates For Public Works Contracts does not exempt the use of form 1444 for the purpose of determining a federal classification wage rate.
1-07.9(5) Required Documents
(January 24, 2011 APWA GSP)

Supplement this section with the following:

The Contractor or subcontractor directly contracting for "Off-Site, Prefabricated, Non-Standard, Project Specific Items" as defined below shall identify and report information required on the addendum to the "Affidavit of Wages Paid" form filed with the Department of Labor and Industries [form F700-164-000]. The Contractor shall include language in its subcontracts requiring subcontractors and lower-tier subcontractors to comply with the reporting requirements for "Off-Site, Prefabricated, Non-Standard, Project Specific Item" on the Affidavit of Wages Paid form addendum.

The reporting requirement for Items shall apply for all public works contracts estimated to cost over $1 million entered into by the Contracting Agency and Contractor between September 1, 2010 through December 31, 2013.

"Off-site, prefabricated, nonstandard, project specific items" means products or items that are:

1. Made primarily of architectural or structural precast concrete, fabricated steel, pipe and pipe systems, or sheet metal and sheet metal duct work; and
2. Produced specifically for this Project and not considered to be regularly available shelf items; and
3. Produced or manufactured by labor expended to assemble or modify standard items; and
4. Produced at an off-site location outside the State of Washington.

The Contractor or subcontractor shall comply with the reporting requirements and instructions on the Affidavit of Wages Paid form, and shall report the following information on the Affidavit of Wages Paid form submitted to the Department of Labor and Industries in order to comply with the reporting requirements for use of "Off-Site, Prefabricated, Non-Standard, Project Specific" items:

1. The estimated cost of the project;
2. The name of the Contracting Agency and the project title;
3. The contract value of the off-site, prefabricated, nonstandard, project specific items produced outside of Washington State, including labor and materials; and
4. The name, address, and federal employer identification number of the contractor that produced the off-site, prefabricated, nonstandard, project specific items.

The Contracting Agency may direct the Contractor, at no additional cost to the Contracting Agency, to remove and substitute any subcontractor(s) found to be out of compliance with the "Off-Site Prefabricated Non-Standard Project Specific Items" reporting requirements more than one time as determined by the Department of Labor and Industries.
1-07.11 REQUIREMENTS FOR NONDISCRIMINATION

Section 1-07.11 is supplemented with the following:

(August 5, 2013)

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
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

<table>
<thead>
<tr>
<th>Timetable</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Until further notice</td>
<td>6.9%</td>
</tr>
</tbody>
</table>

Minorities - by Standard Metropolitan Statistical Area (SMSA)

Yakima, WA:

SMSA Counties:
  Yakima, WA  9.7
  WA Yakima.

Non-SMSA Counties
  WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.

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

(April 1, 2013)

Disadvantaged Business Enterprise Condition of Award Participation
The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 apply to this
Contract. Demonstrating compliance with these specifications is a Condition of Award
(COA) of this Contract. Failure to comply with the requirements of this specification may
result in your bid being found to be nonresponsive and may be rejected.

DBE COA Goal
The Contracting Agency has established a COA Contract goal in the amount of: 7%
and a training goal of zero hours has been established.

DBE Eligibility/Selection of DBEs
A Directory of Certified DBE Firms denoting the Description of Work the DBE
Contractors are certified to perform is available at:


The directory provides plain language on the Description of Work that the listed
DBE’s have been certified by the Office of Minority and Women’s Business
Enterprises (OMWBE) to perform. The Bidder shall use the Directory of Certified
DBE Firms to confirm if a DBE is certified for the “Description of Work” the
Bidder lists on the DBE Utilization Certification form # 272-056 EF (see form
instructions) and therefore qualifies for credit towards the COA goal.

Crediting DBE Participation

Joint Venture
When a DBE performs as a participant in a joint venture, only that portion of the
total dollar value of the Contract equal to the distinct, clearly defined portion of the
Work that the DBE performs with its own forces shall be credited.
**DBE Prime Contractor**

A DBE Prime Contractor may only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime performs with its own forces.

**DBE Subcontractor**

When a DBE firm participates as a Subcontractor only that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces shall be credited.

- Include the cost of supplies and materials obtained by the DBE for the Work in the Contract including supplies purchased or equipment leased by the DBE.

  - However, you may not take credit for supplies, materials, and equipment the DBE Subcontractor purchases or leases from the Prime Contractor or its affiliate. In addition, Work performed by a DBE, utilizing resources of the Prime Contractor or its affiliates shall not be credited.

- In very rare situations, a DBE firm may utilize equipment and/or personnel from a non-DBE firm other than the Prime Contractor or its affiliates. Should this situation arise the arrangement must be short-term and have prior written approval from the Office of Equal Opportunity (OEO).

- Count the entire value of fees or commissions charged by a DBE firm for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance.

- When a DBE subcontracts to another firm, the value of the subcontracted Work may be counted as participation only if the DBE's lower tier Subcontractor is also a DBE. Work that a DBE subcontracts to a non-DBE firm shall not be credited.

- When non-DBE Subcontractor further subcontracts to a lower-tier Subcontractor or supplier who is a certified DBE, then that portion of the Work further subcontracted may be credited as DBE participation, provided it is a distinct clearly defined portion of the Work that the DBE is certified to perform and the DBE Subcontractor performs the Work with its own forces.

- If a firm is not certified as a DBE at the time of the execution of the contract, their participation cannot be counted toward any DBE goals.
Trucking
Use the following factors in determining DBE credit and whether a DBE trucking company is performing a commercially useful function:

1. The DBE must be responsible for the management and supervision of the entire trucking operation for which credit is being claimed.

2. The DBE must itself own and, with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract.

3. The DBE receives credit only for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs. For purposes of this requirement a lease must indicate that the DBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE first priority for use of the leased truck. Leased trucks must display the name and identification number of the DBE.

4. The DBE may lease trucks from another DBE firm including an owner-operator provided they are certified as a DBE for trucking. The DBE who leases trucks from another DBE may claim participation for the total value of the transportation services the lessee DBE provides on the Contract.

5. The DBE may also lease trucks from a non-DBE firm and may enter into an agreement with an owner-operator who is a non-DBE. The DBE shall only receive credit for the number of additional non-DBE trucks equal or less than the number of DBE trucks the firms owns or has leased/subcontracted through another DBE trucking company. The DBE must control the work of the non-DBE trucks. If the non-DBE is performing the work without supervision of that work by the DBE, the DBE is not performing a Commercially Useful Function (CUF).

6. In any lease or owner-operator situation, as described in requirement #4 and #5 above, the following rules shall apply:

   a. A written lease/rental agreement is required for all trucks leased or rented; documenting the ownership and the terms of the agreement. The agreements must be submitted and approved by the Contracting Agency prior to the beginning of the Work. The agreement must show the lessor’s name, truck description and agreed upon amount and method of payment (hour, ton, or per load). All lease agreements shall be for a long-term relationship, rather than for the individual project. (This requirement does not apply to owner-operator arrangements.)
b. Only the vehicle, (not the operator) may be leased or rented.
   (This requirement does not apply to owner-operator
   arrangements).

7. Credit may only be claimed for DBE trucking firms operating under a
   subcontract or a written agreement approved by the Contracting Agency
   prior to performing Work.

**Expenditures paid to other DBEs**

Expenditures paid to other DBEs for materials or supplies may be counted toward
DBE goals as provided in the following:

**Manufacturer**

You may claim DBE credit for 100 percent of value of the materials or
supplies obtained from a DBE manufacturer.

A manufacturer is a firm that operates or maintains a factory or establishment
that produces, on the premises, the materials, supplies, articles, or equipment
required under the contract. A manufacturer shall include firms that produce
finished goods or products from raw or unfinished material or that purchases
and substantially alters goods and materials to make them suitable for
construction use before reselling them.

In order to receive credit as a DBE Manufacturer, the firm must be certified by
OMWBE as a manufacturer in a NAICS code that falls within the 31xxxx to
33xxxx classification.

**Regular Dealer**

You may claim credit for 60 percent of the value of the materials or supplies
purchased from a DBE regular dealer. Rules applicable to regular dealer
status are contained in 49 CFR Part 26.55.e.2.

To be considered a regular dealer you must meet the following criteria:

- WSDOT considers and recognizes a regular dealer, as a firm that
  owns, operates, or maintains a store, warehouse, or other establishment
  in which the materials or supplies required for the performance of the
  Contract and described by the specifications of the Contract are
  bought, kept in stock and regularly sold or leased to the public in the
  usual course of business.

- Sixty percent (60%) of the cost of materials or supplies purchased
  from an approved regular dealer may be credited as DBE participation.
Regular dealer status is granted on a contract-by-contract basis. A firm wishing
to be approved as a regular dealer for WSDOT contracted projects or
Highways & Local Program administered projects must submit a request in
writing to OEO for approval, no later than seven days prior to bid opening.

Once the OEO has received the request, an onsite review will be set up with
the firm and a review conducted to determine the firm's qualifications. If it is
determined that the firm qualifies as a regular dealer the OEO will list the firm
on an Approved Regular Dealers List. The list may be accessed through the
OEO Home website is at:

www.wsdot.wa.gov/equalopportunity.

Note: Requests to be listed as a regular dealer will only be processed if the
requesting firm is certified by the Office of Minority and Women's
Business Enterprises in a NAICS code that fall within the 42XXXX
NAICS Wholesale code section.

Materials or Supplies Purchased from a DBE
With regard to materials or supplies purchased from a DBE who is neither a
manufacturer nor a regular dealer you may claim credit for the following:

1. Fees or commissions charged for assistance in the procurement of the
materials and supplies.

2. Fees or transportation charges for the delivery of materials or
supplies.

In either case you may not take credit for any part of the cost of the materials
and supplies.

Commercially Useful Function (CUF)
The Prime Contractor has a responsibility and must treat the working relationship
with the DBE such that the DBE is performing a commercially useful function.
The Prime Contractor may only take credit for Work performed by a DBE that is
determined to be performing a commercially useful function.

- A DBE performs a commercially useful function when it is responsible for
  execution of a distinct element of Work and is carrying out its responsibilities
  by performing, managing and supervising the Work involved. The DBE must
  also be responsible with respect to materials and supplies used on the
  Contract. For example; negotiating price, determining quality, determining
  quantities, ordering, installing (if applicable) and paying for the material itself.
• A DBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, Contract, or project through which funds are passed.

Joint Checking Allowance
Prime Contractors and DBEs must receive pre-approval by the OEO before using a joint check. Joint check requests shall be submitted by the Prime Contractor to the Contracting Agency for approval.

When requesting approval for use of a joint checking allowance, the Contractor must distribute a written joint check agreement among the parties (including the suppliers involved) providing full and prompt disclosure of the expected use of the joint checks. The agreement shall contain all the information concerning the parties’ obligations and consequences or remedies if the agreement is not fulfilled or a breach occurs. The joint check request shall be submitted to the Contracting Agency for approval prior to signing the contract agreement.

The following are some general conditions that must be met by all parties regarding joint check use:

a. It is understood that the Prime Contractor acts solely as the guarantor of a joint check.

b. The DBE’s own funds are used to pay supplier of materials. The Prime Contractor does not make direct payment to supplier. In order to be performing a Commercially Useful Function (CUF), the DBE must release the check to the supplier (paying for the materials itself and not be an extra participant in a transaction).

c. If the Prime Contractor makes joint checks available to one DBE Subcontractor, the service must be made available to all Subcontractors (DBE and non-DBE).

d. The relationship between the DBE and its suppliers should be established independently of and without interference by the Prime Contractor. The DBE has final decision-making responsibility concerning the procurement of materials and supplies, including which supplier to use.

e. The Prime Contractor and DBE shall be able to provide receipts, invoices, cancelled checks and/or certification statements of payment if requested by the Contracting Agency.

f. The DBE remains responsible for all other elements of 49 CFR 26.55(c)(1).
Failure by the Prime Contractor to request and receive prior approval of a joint check arrangement will result in the joint check amount not counting towards the Prime Contractor’s DBE goal.

Disadvantaged Business Enterprise Utilization Certification FORM # 272-056 EF
To be eligible for award of the Contract, the Bidder shall properly complete and submit a Disadvantaged Business Enterprise Utilization Certification with the Bidder’s sealed Bid Proposal, as specified Section 1-02.9 Delivery of Proposal. The Bidder’s Disadvantaged Business Enterprise Utilization Certification must clearly demonstrate how the Bidder intends to meet the DBE COA goal. A Disadvantaged Business Enterprise Utilization Certification (form # 272-056 EF) is included in your Proposal package for this purpose as well as instructions on how to properly fill out the form.

In the event of arithmetic errors in completing the Disadvantaged Business Enterprise Utilization Certification the amount listed to be applied towards the goal for each DBE shall govern and the DBE total amount shall be adjusted accordingly.

Note: The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a Disadvantaged Business Enterprise Utilization Certification that accurately demonstrates how the Bidder intends to meet the COA goal.

Disadvantaged Business Enterprise (DBE) Written Confirmation Document(s) FORM # 422-031 EF
The Bidder shall submit a complete and accurate Disadvantaged Business Enterprise (DBE) Written Confirmation Document for each DBE firm listed in the Bidder’s completed Disadvantaged Business Enterprise Utilization Certification as submitted with the bid. Failure to do so will result in the associated participation being disallowed, which may result in bid rejection.

A Disadvantaged Business Enterprise (DBE) Written Confirmation Document (form No. 422-031 EF) is included in your Proposal package for this purpose.

The form(s) shall be received as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

It is prohibited for the Bidder to require a DBE to submit a Written Confirmation Document with any part of the form left blank. Should the Contracting Agency determine that a Written Confirmation Document was signed by a DBE that was not complete; the validity of the document comes into question and the associated DBE Participation may not receive credit.
Selection of Successful Bidder/Good Faith Efforts (GFE)

The successful Bidder shall be selected on the basis of having submitted the lowest responsive Bid, which demonstrates a good faith effort to achieve the DBE COA goal. Achieving the goal may be accomplished in one of two ways, as follows:

1. **By meeting the goal**
   The best indication of good faith efforts is to document, through submission of the Disadvantaged Business Enterprise Utilization Certification and supporting Disadvantaged Business Enterprise (DBE) Written Confirmation Document(s) that the Bidder has obtained enough DBE participation to meet or exceed the assigned DBE COA contract goal. That being the case no additional GFE documentation is required. Or;

2. **By documentation that it made adequate GFE to meet the goal**
   The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder’s efforts to solicit sufficient DBE participation have been unsuccessful. In this case, the Bidder must supply GFE documentation in addition to the Disadvantaged Business Enterprise Utilization Certification, and supporting Disadvantaged Business Enterprise (DBE) Written Confirmation document(s).

Note: In the case where the Bidder was awarded the contract based on demonstrating adequate GFE the advertised DBE goal will not be reduced to the Bidder’s partial commitment. The Bidder shall demonstrate a GFE during the life of the Contract to attain the DBE Condition of Award (COA) Goal as assigned to the project.

**Good Faith Efforts (GFE) Documentation**
GFE documentation shall be received, as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

Based upon all the relevant documentation submitted in Bid or as supplement to Bid, the Contracting Agency shall determine whether the Bidder has demonstrated a sufficient GFE to achieve DBE participation. The Contracting Agency will make a fair and reasonable judgment of whether a Bidder that did not meet the goal through participation, made adequate good faith efforts as demonstrated by the GFE documentation.

The following is a list of types of actions, which would be considered as part of the Bidder’s GFE to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases:

1. Attendance by the Bidder at any pre-solicitation or pre-Bid meetings that were scheduled by the Contracting Agency to inform DBEs of contracting
and subcontracting or material supply opportunities available on the project;

2. Contacting local Tribes, Tribal Employment Rights Offices (TERO) concerning the subcontracting or supply opportunities in sufficient time to allow the enterprises to participate effectively;

3. Selection by the Bidder of specific economically feasible units of the project to be performed by DBEs in order to increase the likelihood of participation by DBEs even if the Bidder preferred to perform these Work items as the Prime Contractor;

4. Advertising by the Bidder in general circulation, trade association minority and trade oriented, women focus publications, concerning the subcontracting or supply opportunities;

5. Providing written notice from the Bidder to a reasonable number of specific DBEs, identified from the OMWBE Directory of Certified DBE Firms for the selected subcontracting or material supply Work, in sufficient time to allow the enterprises to participate effectively;

6. Follow-up by the Bidder of initial solicitations of interest by contacting the DBEs to determine with certainty whether they were interested. Documentation of this kind of action shall include the information outlined below:

   a. The names, addresses, telephone numbers of DBEs who were contacted, the dates of initial contact, and whether initial solicitations of interest were followed-up by contacting the DBEs to determine with certainty whether the DBEs were interested;

   b. A description of the information provided to the DBEs regarding the plans, specifications, and estimated quantities for portions of the Work to be performed;

   c. Documentation of each DBE contacted but rejected and the reason(s) for that rejection;

7. Providing, to interested DBEs, adequate information about the plans, specifications, and requirements for the selected subcontracting or material supply Work;

8. Negotiating in good faith with the DBE firms, and not, without justifiable reason, rejecting as unsatisfactory, Bids that are prepared by any DBE. The DBE's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations - union vs. non-union employee status - are not legitimate causes for the rejection or
non-solicitation of bids in the Prime Contractor’s efforts to meet the project goal;

9. Advertising and making efforts to obtain DBE participation that were reasonably expected to produce a level of participation sufficient to meet the goal or requirements of the Contracting Agency;

10. Making any other efforts to obtain DBE participation that were reasonably expected to produce a level of participation sufficient to meet the goal or requirements of the Contracting Agency;

11. Using the services of minority community organizations, minority contractor groups, local, State, and federal minority business assistance offices and other organizations identified by WSDOT and advocates for disadvantaged, minority, and women businesses that provide assistance in the recruitment and placement of disadvantaged, minority, and women business enterprises; and

12. Using the WSDOT OEO DBE Supportive Services to assist you. For more information please contact the OEO by calling toll free at (888) 259-9143 or emailing dbess@wsdot.wa.gov.

Administrative Reconsideration of GFE Documentation
Any Bidder has the right to reconsideration but only for the purpose of reassessing their GFE documentation that was determined to be inadequate.

- The Bidder must request and schedule a reconsideration hearing within seven calendar days of notification of being nonresponsive or forfeit the right to reconsideration.

- The reconsideration decision on the adequacy of the Bidder’s GFE documentation shall be made by an official who did not take part in the original determination.

- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder’s position as to why the GFE documentation demonstrates a sufficient effort.

- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five business days of the hearing explaining the basis for their finding.

Procedures between Award and Execution
After Award and prior to Execution the Bidder shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder’s Proposal bond or deposit.
1. Additional information for all successful DBE's as shown on the Disadvantaged Business Enterprise Utilization Certification:

   a. Correct business name, federal employee identification number (if available), and mailing address.

   b. List of all Bid items assigned to each successful DBE firm, including unit prices and extensions.

   c. Description of partial items (if any) to be sublet to each successful DBE firm specifying the distinct elements of Work under each item to be performed by the DBE and including the dollar value of the DBE portion.

   Total amounts shown for each DBE shall not be less than the amount shown on the Disadvantaged Business Enterprise Utilization Certification. A breakdown that does not conform to the Disadvantaged Business Enterprise Utilization Certification or that demonstrates a lesser amount of DBE participation than that included in the Disadvantaged Business Enterprise Utilization Certification will be returned for correction.

2. A list of all firms who submitted a Bid or quote in an attempt to participate in this project whether they were successful or not. Include the business name and a mailing address.

Note: The firms identified by the Prime Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three-years.

Procedures after Execution

Crediting DBE Participation toward Meeting the Goal Reporting

All DBE work whether COA or race neutral participation is reported. The Prime Contractor shall submit a Quarterly Report of Amounts Credited as DBE Participation form (422-102 EF) on a quarterly basis for any calendar quarter in which DBE has accomplished Work or upon completion of the project, as appropriate. The dollars are to be reported as specified herein.

In the event that the payments to a DBE have been made by an entity other than the Prime Contractor, as in the case of a lower-tier Subcontractor or supplier, then the Prime Contractor shall obtain the quarterly report, including the signed affidavit, from the paying entity and submit the report to the Contracting Agency.
Changes in DBE COA participation

Owner initiated Change Orders
The Prime Contractor shall demonstrate a GFE to substitute COA DBE participation when the Contracting Agency deletes Work items by change order that impact a COA DBE’s Work.

When the Contract allows alternate Work methods which serve to delete or create under-runs in COA DBE Work then the Prime Contractor must provide documentation of negotiating the change with the DBE that was to perform the reduced Work and demonstrate a GFE to substitute other DBE COA participation.

Original Quantity Under runs
In the event that Work committed to a DBE firm as part of the COA under runs the original planned quantities the Prime Contractor shall demonstrate a GFE to substitute other DBE COA participation.

Contractor-Initiated Proposals—General
The Contractor cannot reduce the amount of work committed to a DBE firm at contract award without good cause and only with written concurrence from the OEO. Reducing a COA DBE’s Work is viewed as a partial DBE termination, subject to the procedures below.

DBE Termination
A COA DBE Subcontractor may only be terminated in whole or part with the approval of the Contracting Agency (in coordination with OEO). Approval will be granted provided the Prime Contractor demonstrates that the termination is based on good cause.

Good cause typically includes situations where the DBE Subcontractor is unable or has failed to perform the work of its subcontract in accordance with normal industry standards. While not all inclusive, some examples of good cause include the following circumstances:

Good cause may exist if:

- The listed DBE Subcontractor fails or refuses to execute a written contract.

- The listed DBE Subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards.
• The listed DBE Subcontractor fails or refuses to meet the Prime Contractor’s reasonable, nondiscriminatory bond requirements.

• The listed DBE Subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness.

• The listed DBE Subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.

• The listed DBE Subcontractor voluntarily withdraws from the project and provides to you written notice of its withdrawal.

• The listed DBE is ineligible to receive DBE credit for the type of work required.

• A DBE owner dies or becomes disabled with the result that the listed DBE is unable to complete its work on the contract.

Good cause does not exist if:

• The Prime Contractor seeks to terminate a COA DBE so that the Prime can self-perform the Work.

• The Prime Contractor seeks to terminate a COA DBE so the Prime Contractor can substitute another DBE or non-DBE after contract award.

• The failure or refusal of the DBE Subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the Prime Contractor (e.g., the failure of the Prime Contractor to make timely payments or the unnecessary placing of obstacles in the path of the DBE’s Work).

Prior to requesting termination, the Prime Contractor must give notice in writing to the DBE Subcontractor with a copy to the Contracting Agency of its intent to request to terminate DBE work and the reasons for doing so. The DBE Subcontractor shall have five (5) days to respond to the prime Contractor’s notice. The DBE’s response shall either support the termination or advise the Contracting Agency and the Prime Contractor of the reasons it objects to the termination of its subcontract.

When a COA DBE firm is “terminated” from a Contract (or fails to complete its Subcontract for any reason), the Prime Contractor shall make every good faith effort to substitute another DBE Firm (ref.to 49 CFR 26.53(g)).
Graduation
When a DBE firm "graduates" from the DBE program (during the course of
an executed subcontract), the DBE participation of that firm "may" continue to
count towards the contract DBE goal.

Decertification
When a COA DBE firm who has a signed subcontract in place with a Prime,
later becomes "decertified" (during the course of that subcontract) – the DBE
participation of that firm "may" continue to count towards the Contract DBE
goal.

Counting payments
Payments to a DBE firm will count toward DBE goals only if the participation
is in accordance with these specifications.

Prompt Payment
Prompt payment to all Subcontractors shall be in accordance with Section 1-08.1(1) of these Contract special provisions.

Payment
Compensation for all costs involved with complying with the conditions of
this specification and any other associated DBE requirements is included in
payment for the associated Contract items of Work.

Damages for Noncompliance
The Prime Contractor shall not discriminate on the basis of race, color,
national origin, or sex in the performance of this Contract. The Prime
Contractor shall carry out applicable requirements of 49 CFR Part 26 in the
award and administration of Contracts, which contain funding assistance from
the United States Department of Transportation. Failure by the Prime
Contractor to carry out these requirements is a material breach of this
Contract, which may result in the Termination of this Contract or such other
remedy as the Contracting Agency deems appropriate.

If the Prime Contractor does not comply with any part of its Contract as
required under 49 CFR part 26, and/or any other applicable law or regulation
regarding DBE, the Contracting Agency may withhold payment, suspend the
ability of the Prime Contractor to participate in future Contracting Agency
contracts, impose sanctions or Terminate the Contract, and subject the Prime
Contractor to civil penalties of up to ten percent of the amount of the Contract
for each violation. In the case of WSDOT Contracts, prequalification may be
suspended pursuant to WAC 468-16-180, and continuous violations
(exceeding a single violation) may also disqualify the Prime Contractor from
further participation in WSDOT Contracts for a period of up to three years.
An apparent low Bidder must be in compliance with these Contract Provisions as a condition precedent to the granting of a notice of award by the Contracting Agency. The Prime Contractor is entitled to request an adjudicative proceeding with respect to the Contracting Agency’s determination of Contract violation and assessed penalties by filing a written application within thirty days of receipt of notification. The adjudicative proceeding, if requested, will be conducted by an administrative law judge pursuant to the procedures set forth in RCW 34.05 and Chapter 10.08 of the Washington Administrative Code.

(July 1, 2013)
Small Business Enterprise Participation
The Small Business Enterprise (SBE) Program is an element of the Disadvantaged Business Enterprise (DBE) Program in accordance with the requirements of 49 CFR Part 26.39. As such, the requirements of this contract establish affirmative efforts to utilize SBE certified firms on construction projects. No preference will be included in the evaluation of Bids/Proposals. No minimum level of SBE participation shall be required as a Condition of Award and Bids/Proposals may not be rejected or considered non-responsive on that basis.

Voluntary SBE Goals
A voluntary goal amount of ten percent of the Contract bid amount is established.

The goal is voluntary, but achievement of the goal is encouraged. No preference will be included in the evaluation of bids/proposals. Bidders may contact the Washington State Office of Minority and Women’s Business Enterprises (OMWBE) at 360-664-9750 or visit www.omwbe.wa.gov to obtain information on certified SBE firms.

Required SBE Participation Plan
The Contractor shall submit a SBE Participation Plan prior to commencing contract work. Although the goal is voluntary, the outreach efforts to provide SBE maximum practicable opportunities are not.

For SBE Participation Plan Drafting Guidelines, please visit:

www.wsdot.wa.gov/equalopportunity.

Definitions
Regardless of race or gender, a SBE is one certified by OMWBE as such, where the firm’s:

- Three year averaged gross receipts are less than $22.41 million dollars, with smaller industry standards applicable
- Is at least 51% owned and controlled by an individual or individuals with a personal net worth less than $1.32 million dollars
1. A Micro Small Business Enterprise is a firm certified as an SBE with average
gross receipts for three years less than one million dollars

2. **1-07.12 FEDERAL AGENCY INSPECTION**

3. Section 1-07.12 is supplemented with the following:

4. *(July 30, 2012)*

5. **Required Federal Aid Provisions**

6. The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273)

7. Revised May 1, 2012 supersede any conflicting provisions of the Standard Specifications

8. and are made a part of this Contract; provided, however, that if any of the provisions of

9. FHWA 1273 are less restrictive than Washington State Law, then the Washington State Law

10. shall prevail.

11. The provisions of FHWA 1273 included in this Contract require that the Contractor insert

12. the FHWA 1273 in each Subcontract, together with the wage rates which are part of the

13. FHWA 1273. Also, a clause shall be included in each Subcontract requiring the

14. Subcontractors to insert the FHWA 1273 thereto in any lower tier Subcontracts, together

15. with the wage rates. The Contractor shall also ensure that this section, REQUIRED

16. FEDERAL AID PROVISIONS, is inserted in each Subcontract for Subcontractors and

17. lower tier Subcontractors. For this purpose, upon request to the Project Engineer, the

18. Contractor will be provided with extra copies of the FHWA 1273, the applicable wage rates,

19. and this Special Provision.

20. **1-07.13 Contractor’s Responsibility For Work**

21. **1-07.13(4) Repair of Damage**

22. *(August 6, 2001)*

23. **Repair of Damage**

24. Section 1-07.13(4) is revised to read:

25. The Contractor shall promptly repair all damage to either temporary or permanent work

26. as directed by the Engineer. For damage qualifying for relief under Sections 1-

27. 07.13(1), 1-07.13(2) or 1-07.13(3), payment will be made in accordance with Section 1-

28. 04.4. Payment will be limited to repair of damaged work only. No payment will be

29. made for delay or disruption of work.

30. **1-07.17 Utilities and Similar Facilities**

31. *(April 2, 2007)*

32. **Utilities and Similar Facilities**

33. Section 1-07.17 is supplemented with the following:

34. Locations and dimensions shown in the Plans for existing facilities are in accordance with

35. available information obtained without uncovering, measuring, or other verification.
Public and private utilities, or their Contractors, will furnish all work necessary to adjust, relocate, replace, or construct their facilities unless otherwise provided for in the Plans or these Special Provisions. Such adjustment, relocation, replacement, or construction will be done during the prosecution of the work for this project. It is anticipated that utility adjustment, relocation, replacement or construction within the project limits will be completed as follows:

All utility relocation work has been completed; however adjustments will be performed by the various utilities if required during progression of work.

The Contractor shall attend a mandatory utility preconstruction meeting with the Engineer, all affected subcontractors, and all utility owners and their contractors prior to beginning onsite work.

The following addresses and telephone numbers of utility companies or their Contractors that will be adjusting, relocating, replacing or constructing utilities within the project limits are supplied for the Contractor's use:

Call Before You Dig One Call Center 1-800-424-5555

AT&T
4438 Hood Rd., Walla Walla WA 99362 ............................................ (509) 457-1210

Level 3
330 Old Naches Highway, Yakima WA 98908 ................................. (509) 731-0042

Noel Communications, INC
900 E. Yakima Ave., Yakima WA 98901 ..................................... (509) 575-4780

CenturyLink
8 South 2nd Ave. Room 304, Yakima WA 98902 ............................. (509) 575-7185

Terrace Heights Sewer
186 Iron Horse Court, Suite 100, Yakima WA 98901<label>.................... (509) 453-8702</label>

Yakima County Public Services
1216 S. 18th Street, Yakima WA 98901 ................................. (509) 574-2396

LS Networks
921 SW Washington Street, Suite 370, Portland OR 97205 ..................... (503) 294-5300

Pacific Power & Light Co.
500 N Keys Road, Yakima, WA 98901 ...................................... (509) 575-3158

Cascade Natural Gas
701 S. 1st Ave., Yakima, WA 98902 ......................................... (509) 457-5905

Charter Communications
1-07.18 Public Liability and Property Damage Insurance
(January 24, 2011 APWA GSP)

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

1-07.18 Insurance

1-07.18(1) General Requirements

A. The Contractor shall obtain the insurance described in this section from insurers approved by the State Insurance Commissioner pursuant to RCW Title 48. The insurance must be provided by an insurer with a rating of A-: VII or higher in the A.M. Best’s Key Rating Guide, which is licensed to do business in the state of Washington (or issued as a surplus line by a Washington Surplus lines broker). The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer (including financial condition), terms and coverage, the Certificate of Insurance, and/or endorsements.

B. The Contractor shall keep this insurance in force during the term of the contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated (see C. 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 Final Completion 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 insurance policies shall contain a “cross liability” provision.

E. The Contractor’s and all subcontractors’ insurance coverage shall be primary and non-contributory insurance as respects the Contracting Agency’s insurance, self-insurance, or insurance pool coverage.

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

G. Upon request, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s).

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

J. 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 Professional Liability and Workers Compensation, shall name the following listed entities as additional insured(s):

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

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, whether primary, excess, contingent or otherwise, 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(3) describes limits lower than those maintained by the Contractor.

1-07.18(3) Subcontractors

Contractor shall ensure that each subcontractor of every tier obtains and maintains at a minimum the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request of the Contracting Agency, the Contractor shall provide evidence of such insurance.

1-07.18(4) Evidence of Insurance

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. The certificate and endorsements must conform to the following requirements:

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. A statement of additional insured status on an ACORD Certificate of Insurance shall not satisfy this requirement.

3. Any other amendatory endorsements to show the coverage required herein.

1-07.18(5) Coverages and Limits

The insurance shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve the Contractor from
liability in excess of such limits. 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 shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

A policy of Commercial General Liability Insurance, including:

- Per project aggregate
- Premises/Operations Liability
- Products/Completed Operations – for a period of one year following final acceptance of the work.
- Personal/Advertising Injury
- Contractual Liability
- Independent Contractors Liability
- Stop Gap / Employers’ Liability
- Explosion, Collapse, or Underground Property Damage (XCU)
- Blasting (only required when the Contractor’s work under this Contract includes exposures to which this specified coverage responds)

Such policy must provide the following minimum limits:

- $1,000,000 Each Occurrence
- $2,000,000 General Aggregate
- $1,000,000 Products & Completed Operations Aggregate
- $1,000,000 Personal & Advertising Injury, each offence

Stop Gap / Employers’ Liability

- $1,000,000 Each Accident
- $1,000,000 Disease - Policy Limit
- $1,000,000 Disease - Each Employee

1-07.18(5)B Automobile Liability

Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90 endorsement and a CA 9948 endorsement attached if “pollutants” are to be transported. Such policy(ies) must provide the following minimum limit:

- $1,000,000 combined single limit

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
(January 2, 2012)

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Regulatory Posted Speed</th>
<th>Distance From Traveled Way (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 mph or less</td>
<td>10 *</td>
</tr>
<tr>
<td>40 mph</td>
<td>15</td>
</tr>
<tr>
<td>45 to 55 mph</td>
<td>20</td>
</tr>
<tr>
<td>60 mph or greater</td>
<td>30</td>
</tr>
</tbody>
</table>

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

1-07.24 Rights Of Way
(October 1, 2005 APWA GSP)

Delete this section in its entirety, and replace it with the following:
Street right of way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.

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

Whenever any of the work is accomplished on or through property other than public right of way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

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

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

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

SECTION 1-08 PROSECUTION AND PROGRESS

1-08 Prosecution and Progress
Add the following new section:

1.08.0 Preliminary Matters
(May 25, 2006 APWA GSP)

Add the following new section:

1.08.0(1) Preconstruction Conference
(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.

108.1 Subcontracting

Section 1-08.1 is supplemented with the following:

(October 12, 1998)

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

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

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

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

1-08.1(1) Subcontract Completion and Return of Retainage Withheld

Section 1-08.1(1) is revised to read:

(June 27, 2011)

The following procedures shall apply to all subcontracts entered into as a part of this Contract:

Requirements

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

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

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

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

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

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

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

   d. Other sanctions as provided by the subcontractor or by law under applicable prompt pay statutes.
**Conditions**
This clause does not create a contractual relationship between the Contracting Agency and any Subcontractor as stated in Section 1-08.1. Also, it is not intended to bestow upon any Subcontractor, the status of a third-party beneficiary to the Contract between the Contracting Agency and the Contractor.

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

1-08.4 Notice to Proceed and Prosecution of the Work
(June 27, 2011 APWA GSP)

Revise this section to read:

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 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
(March 13, 1995)

Section 1-08.5 is supplemented with the following:

The project shall be physically completed in **20 working days**.
1-08.5  Time for Completion
(August 14, 2013 APWA GSP, Option A)

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the Notice to Proceed Date.

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

Revise the sixth paragraph to read:

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

1. The physical work on the project must be complete; and

2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
   a. Certified Payrolls (per Section 1-07.9(5)).
   b. Material Acceptance Certification Documents
   c. Quarterly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
   d. Final Contract Voucher Certification
   e. Copies of the approved “Affidavit of Prevailing Wages Paid” for the Contractor and all Subcontractors
   f. Property owner releases per Section 1-07.24

1-08.6  Suspension of Work

Section 1-08.6 is supplemented with the following:
Contract time may be suspended for the procurement of critical materials (Procurement Suspension). In order to receive a Procurement Suspension, the Contractor shall within 15 calendar days after execution by the Contracting Agency, place purchase orders for all materials deemed critical by the Contracting Agency for physical completion of the contract. The Contractor shall provide copies of purchase orders for the critical materials. Such purchase orders shall disclose the purchase order date and estimated delivery dates for such critical material.

The Contractor shall show the procurement of the materials listed below as activities in the Progress Schedule. If the approved Progress Schedule indicates that acceptance of materials procurement are critical activities, and if the Contractor has provided documentation that the purchase orders are placed for the critical materials within the prescribed 15 calendar days, then contract time shall be suspended upon physical completion of all critical work except that work dependent upon the below listed critical materials:

1. Traffic Signal Standards
2. Traffic Signal Cabinet/Controller, complete
3. Electrical Service Cabinet, complete
4. Trafficon Video detection system, complete

Charging of contract time will resume upon the Contractors’ receipt of the delivery of the critical materials to the Contractor, notification that the critical materials are ready for delivery to the Contractor from the Contracting Agency’s Materials Laboratory, or 60 calendar days after execution by the Contracting Agency, whichever occurs first.

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

Revise the fourth paragraph to read:

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine that the work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, the formula for liquidated damages shown above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.
SECTION 1-09 MEASUREMENT AND PAYMENT

1-09.6 Force Account
(October 10, 2008 APWA GSP)

Supplement this section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor’s total bid. However, the Contracting Agency does not warrant expressly or by implication, that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

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

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

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

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

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

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

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

1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
2. Lump Sum Items in the Bid Form — based on the approved Contractor’s lump sum breakdown for that item, or absent such a breakdown, based on the Engineer’s determination.

3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.

4. Change Orders — entitlement for approved extra cost or completed extra work as determined by the Engineer.

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

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

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

1-09.9(1) Retainage

(June 27, 2011)

Vacant

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

(October 1, 2005 APWA GSP; may be used on FHWA-funded projects)

Delete this Section and replace it with the following:

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

1-09.13(3)A Administration of Arbitration

(October 1, 2005 APWA GSP)

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency’s headquarters are located. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the contract as a basis for decisions.
SECTION 1-10 TEMPORARY TRAFFIC CONTROL

1-10.1(2) Description

(December 1, 2008)
Section 1-10.2(1) is supplemented with the following:

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
401 Pontius Ave. N.
Seattle, WA 98109
1-800-521-0778 or
(206) 382-4090

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(2), Item Bids With Lump Sum for Incidentals

(August 2, 2004)
Section 1-10.4(2) is supplemented with the following:

The bid proposal does not contain the item “Project Temporary Traffic Control,” lump sum. The provisions of Section 1-10.4(2) shall apply.

Paragraph three of Section 1-10.4(2), is supplemented with the following:

(* * * * * *)
Flaggers and Spotters will be by the hour for each person actually performing the work described in Section 1-10.3(1)A. Portions of an hour will be rounded up to the one half hour.
DIVISION 2
EARTHWORK

SECTION 2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

Section 2-01.1 is supplemented with the following:

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

The Contractor shall clear and grub 18 feet beyond the proposed edge of pavement as staked unless otherwise directed by the Engineer. The Contractor shall remove and dispose of all existing shrubs, trees, etc whether or not they are shown on the plans. Any illumination and other permanent features shall not be removed. Those areas identified on the Plans as having construction easements shall only be cleared as needed for improvements.

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

Section 2-01.2(1) is deleted and replaced with the following:

(******)
No open burning will be allowed on this project.

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

Section 2-01.2(3) is deleted and replaced with the following:

(******)
Chipping shall be done by machines that can grind debris into wood chips. Wood chips to be sold or disposed of outside of this project may be any size. Wood chips to be used within the project site shall be no larger than 6 square inches and no thicker than 1/2-inch. The Contractor may spread the unsold chips evenly on the fill slopes only, and tractor walk them into the ground to the satisfaction of the Engineer.

2-01.5 Payment

Section 2-01.5 is revised as follows:

(******)
There shall be no payment for roadside cleanup. Any work performed for roadside cleanup shall be incidental to the Bid Item "Clearing and Grubbing" per Lump Sum, and no further payment shall be made.

SECTION 2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS
2-02.3 Construction Requirements

Section 2-02.3 is supplemented with the following: abandon

(February 17, 1998)

Removal of Obstructions

The following items shall be removed, disposed of or reset as directed by the Engineer in accordance with the requirements of Section 2-02 of the Standard Specifications:

1. Sta. 3+61 to 3+67; 0 Lt. to -45' Lt., Remove Asphalt Pavement.
2. Sta. 3+68 to 3+74; 0' to 48' Rt., Removec Asphalt Pavement.
3. Sta. 3+71; 13' to 88' Rt., Remove two concrete posts and cable.
4. Sta. 4+59; -19' Lt. to 61' Rt., Remove three concrete posts and cable.
5. Sta. 4+59 to 4+61; -19' to -66' Lt., Remove approximately 47 feet of existing four foot chain link fence.
6. Sta. 4+65 to 4+68; Lt., Remove four sixteen foot sections of existing Concrete Barrier and a seven foot nose piece. The removed Barrier sections shall be salvaged and delivered to the Yakima County Solid Waste facility located at 7151 Roza Hill Dr., in Yakima. Please call Augie Martinez at (509) 574-2330, prior to delivery.
7. Sta. 4+66 to 4+72; 0' Lt. to -64' Lt., Remove Asphalt Pavement.
8. Sta. 4+69 to 4+75; 0' Rt. to 84' Rt., Remove Asphalt Pavement.
9. Sta. 5+23 to 5+29; 0' Lt. to -91' Lt., Remove Asphalt Pavement.
10. Sta. 5+23 to 5+29; 0' Rt. to 101' Rt., Remove Asphalt Pavement.
11. Sta. 5+35; -57' Lt., Remove Catch Basin Type 1 and plug pipe.
12. Sta. 5+36 to 5+39; -68' to -97' Lt., Remove approximately 29 feet of existing four foot chain link fence.
13. Sta. 5+54 to 5+67; -41' to -36' Lt., Remove approximately 13 feet of existing concrete curbing.

All other items encountered, which are not covered by Section 2-01 of the Standard Specifications (Clearing, Grubbing, and Roadside Cleanup) shall be considered incidental to the bid item “Removal of Structures and Obstructions”.

Section 2-02.3 paragraph four of the Standard Specifications is supplemented with the following:

(*****)

No waste site has been provided for the disposal of removed material. All material to be removed from the existing structures, except as noted otherwise in the Special Provisions, shall become the property of the Contractor and shall be removed from the sites or otherwise disposed of as approved by the Engineer. The Contractor shall provide his own waste site for excess excavation, debris, etc., and all costs involved shall be considered incidental to the other bid items, and no further payment will be made. Written permission shall be provided to the County from property owners of any waste site prior to its use.
SECTION 2-03 ROADWAY EXCAVATION AND EMBANKMENT

2-03.3(14) Embankment Construction

2-03.3(14)C Compacting Earth Embankments

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

(******)

Compacting embankments and excavations shall be by Method "C" as specified under Section 2-03.3(14)C of the Standard Specifications.

2-03.4 Measurement

Section 2-03.4 of the Standard Specifications is deleted and replaced with the following:

(******)

Only one determination of the original ground elevations shall be made on this project. Measurement for roadway excavation and embankment shall be based on the original ground elevations recorded previous to the award of this Contract and the alignment, profile, grade, and roadway section as shown on the plans and as staked by the Engineer. Control stakes shall be set during construction to provide the Contractor with all essential information for the construction of excavation and embankments.

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

Earthwork quantities shall be computed either manually or by means of electronic data processing equipment, by use of the average end area method.

Copies of the ground cross-section notes shall be available for the bidder's inspection, before the opening of bids, at the office of the County Engineer. Upon award of the Contract, copies of the original ground cross-sections shall be furnished to the successful bidder on request to the County Engineer.

2-03.5 Payment

Section 2-03.5 of the Standard Specifications is deleted and replaced with the following:

(******)

The Contract Unit Price for "Roadway Excavation Incl. Haul," per Cubic Yard, shall be full compensation for all labor, equipment, tools, and materials necessary to excavate, load, haul, place, compact, shape, or otherwise dispose of the materials including existing hot mix asphalt pavements, and any other work required to complete this item as specified and no further payment shall be made.
No separate payment shall be made for embankment compaction and all costs to perform this work as required shall be included in the Unit Bid Price per Cubic Yard for "Roadway Excavation Incl. Haul."

SECTION 2-07 WATERING

Section 2-07 is deleted and replaced with the following:

(******)
The Contractor shall be solely responsible for dust control on this project and shall protect the motoring public, adjacent homes, orchards and crops from damage due to dust, by whatever means necessary. The Contractor shall be responsible for any claims for damages and shall protect the County from any and all such claims.

When directed by the Engineer, the Contractor shall provide water for dust control within two hours of such order and have equipment and manpower available at all times including weekends and holidays to respond to orders for dust control measures.

If County forces are required to respond to a dust control problem, the Contractor shall be charged liquidated damages to offset County expenditures. For each time that the County is required to provide dust control measures, the Contractor shall be assessed damages in the amount of $500.00, which shall be deducted from any moneys due the Contractor under this contract.

Payment for water used for dust control, compaction, processing of base course and top course, and other work shall be included in the other Bid Items involved, and no further payment shall be made.

DIVISION 6
STRUCTURES

SECTION 6-10 CONCRETE BARRIER

6-10.3(3) Removing and Resetting Permanent Concrete Barrier

Section 6-10.3(3) is supplemented with the following:

(******)
The Contractor shall retrieve one 10 foot section of Precast Concrete Barrier from the Yakima County Solid Waste facility located at 7151 Roza Hill Dr., in Yakima, to reset to the project site. Please coordinate with the Engineer prior to arrival.

DIVISION 7
DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND CONDUITS
SECTION 7-08 GENERAL PIPE INSTALLATION REQUIREMENTS

7-08.2 Materials

Section 7-08.2 is supplemented with the following:

(******)  
Gravel Backfill for Pipe Bedding and Trench  9-03.9(3).

7-08.3(3) Backfilling

Section 7-08.3(3) is supplemented with the following:

(******)  
Where directed by the Engineer, trenches shall be backfilled to the depth specified by the Engineer with "Crushed Surfacing Top Course".

7-08.5 Payment

Section 7-08.5 is supplemented with the following:

(******)  
When the Engineer directs the Contractor to backfill trenches with "Crushed Surfacing Top Course" payment shall be made by the Contract Bid Item "Crushed Surfacing Top Course" per ton, which shall include all costs associated with labor, equipment, materials, etc., and no further payment shall be made.

DIVISION 8
MISCELLANEOUS CONSTRUCTION

SECTION 8-13 MONUMENT CASES

8-13.1 Description

Section 8-13.1 is supplemented with the following:

(******)  
This work consists of removing, salvaging and resetting a monument case and cover, in accordance with the Standard Plans and these Specifications, in conformity with the lines and locations shown in the Plans or as staked.

8-13.3 Construction Requirements

Section 8-13.3 is supplemented with the following:

(******)  
Care shall be taken to not damage the case and cover when removing it.

8-13.4 Measurement
Section 8-13.4 is supplemented with the following:

(******)
Measurement of removing and resetting monument case and cover will be by the unit for each monument case and cover salvaged and reset.

8-13.5 Payment

Section 8-13.5 is supplemented with the following:

(******)
If the Monument Case or Cover is damaged during removal and stockpiling the Monument Case and Cover will be replaced at no cost to the contracting agency.

Payment will be made in accordance with Section 1-04.1, for the following Bid item when included in the Proposal:
“Removing and Resetting Monument Case and Cover”, per each.

8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL
8-20.1 Description

Section 8-20.1 is supplemented with the following:

(*****)
The work shall consist of the construction of traffic signal and illumination systems as shown and described in the Contract Documents.

The Contractor shall provide all labor, equipment, and materials for a complete and operational signal and illumination system(s) in accordance with Plans, WSDOT Standard Specification, WSDOT Standard Plans and these Special Provisions. Work to be performed shall include, but not limited to the following items:

1. The contractor shall provide and install all underground illumination and traffic signal components such as foundations, conduits (with pull string), ground rods, junction boxes, wiring and other hardware for the signal and lighting systems as required by the Plans and Contract Documents.

2. The contractor shall provide and install illumination and traffic signal components such as service cabinets, controller cabinet and equipment, communication equipment and cabling, Uninterrupted Power System (UPS) and components, signal standards, mast arms, luminaire arms, luminaires, signal display components and other hardware for the signal and lighting systems as required by the Plans and Contract Documents.

3. The contractor shall coordinate with Pacific Power for installation of service connections in accordance with Pacific Power.

8-20.3(5) Conduit

In section 8-20.3(5) the sentence, “Rigid galvanized steel conduit shall be installed at the following locations:” is deleted and replaced with the following:

(*****)
Rigid galvanized steel conduit shall be installed at all locations.

Section 8-20.3(5) of the Standard Specifications delete the paragraph that begins with “All underground conduits” and replace with the following:

(*****)
All covered underground conduits shall be cleaned with an approved mouse. The mouse shall be pulled through the conduit by establishing a vacuum prior to pulling.

8-20.3(14) Signal Systems

Section 8-20.3(14) C Item No. 11 is deleted and replaced with the following:
11. Sawcut sealant shall be 3M Detector Loop Sealant or equal. Installation shall conform to the manufacturer’s recommendations.

SECTION 8-22 PAVEMENT MARKINGS

8-22.1 Description

Section 8-22.1 is supplemented with the following:

Longitudinal Line Markings shall be applied with a highway striper truck whenever possible. Any other method shall be approved by the Engineer two weeks prior to the use of the proposed application.

8-22.3 Construction Requirements

Section 8-22.3(1) is deleted and replaced with the following:

The Engineer will provide spotting of the lines to be marked. The color of all spotting will be white.

8-22.3(1) Preliminary Spotting

Section 8-22.3(1) is deleted and replaced with the following:

The Engineer will provide spotting of the lines to be marked. The color of all spotting will be white.

8-22.3(6) Removal of Pavement Markings

Section 8-22.3(6) is supplemented with the following:

All pavement markings shall be removed by hydro-blasting.

DIVISION 9
MATERIALS

SECTION 9-06 STRUCTURAL STEEL AND RELATED MATERIALS
9-06.16 Roadside Sign Structures

Section 9-06.16 is supplemented with the following:

(******)

Perforated Steel Square Sign Post System
Where noted in the Plans, steel sign post systems shall be square, pre-punched galvanized
steel tubing, that are NCHRP 350 Test Level 3 Certified and FHWA approved.

The steel sign post system shall include all anchor sleeves, and other hardware required for a
complete sign installation.

System Acceptance
Systems listed in the current QPL will be accepted per the QPL approval code. Systems
not listed in the QPL will be accepted based on a Supplier’s Certificate of Compliance.
The Supplier’s Certificate of Compliance will be a contract specific letter from the
supplier stating the system is NCHRP 350 Test Level 3 compliant. A Certificate of
Material Origin (WSDOT Form 350-109) will be required for contracts containing the
“Foreign Made Materials” clause and will include a dollar value for any foreign steel
used in the system being supplied.

SECTION 9-28 SIGNING MATERIALS AND FABRICATION

9-28.1 (2) Inspection

Section 9-28.1 (2) is revised to read:

(******)
The Engineer shall inspect the completed signs on the jobsite before the installation of the
signs. An approved by Yakima County decal shall be affixed to the blank side of each
sign with the exception of doubled-faced signs which do not receive decals or fabricators
stickers. Signs without the approved decal shall not be installed on the project.

Section 9-28.14 Sign Support Structures

Section 9-28.14 is supplemented with the following:

(April 7, 2008)

Manufacturers for Steel Sign Supports
The Standard Plans lists several steel sign support types. These supports are patented
devices and many are sole-source. All of the sign support types listed below are acceptable
when shown in the plans.

<table>
<thead>
<tr>
<th>Steel Sign Support Type</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type TP-A &amp; TP-B</td>
<td>Transpo Industries, Inc.</td>
</tr>
<tr>
<td>Type PL, PL-T &amp; PL-U</td>
<td>Northwest Pipe Co.</td>
</tr>
<tr>
<td>Type AS</td>
<td>Transpo Industries, Inc.</td>
</tr>
</tbody>
</table>
Type AP
Type ST 1, ST 2, ST 3, & ST 4
Type SB-1, SB-2, & SB-3

SECTION 9-29 ILLUMINATION, SIGNAL ELECTRICAL

9-29.3(2)F Detector Loop Wire

Section 9-29.3(2)F is deleted and revised to read:

(******)
Detector loop wire shall be Canoga Detector Home-run Cable Model No. 30003.

9-29.6 Light and Signal Standards

Section 9-29.6 of the standard specifications is supplemented with the following:

(******)
A signal standard shall consist of the following components: a round tapered steel vertical pole shaft, a round tapered curved horizontal mast arm, a davit style luminaire arm attachment (if required), anchor bolts with nuts, and all associated hardware.

Traffic signal standards shall be furnished and installed in accordance with the methods and materials noted in the applicable Standard Plans, pre-approved plans, or special design plans.

The contractor shall submit drawings and/or shop drawings for approval by the Engineer prior to placing their order.

9-29.6(5) Foundation Hardware

The second sentence of the first paragraph of Section 9-29.6(5) is deleted and revised to read:

(******)
Nuts shall meet the requirements of ASTM A 563, grade A.

9-29.10 Luminaires

Section 9-29.10 of the standard specifications is supplemented with the following:

(******)
Luminaires shall be cobra head type.
9-29.13 Traffic Signal Controllers

Section 9-29.13 is supplemented with the following:

(******)

The contractor shall furnish and install traffic signal controller and all components of the controller assembly to make the traffic signal controller functional and operational. The traffic signal controller shall be Type 2070 Siemens controller and shall include up to 8 vehicle phases, 8 pedestrian phases and two split timing rings.

All signal control equipment furnished under this contract shall be tested at the Washington State DOT Materials Laboratory at Tumwater, WA. Following the completion of testing at the above facility, the contractor shall arrange for the pickup, shipping and the delivery of the signal controller equipment to the Washington State DOT South Central Regional Laboratory at 2809 Rudkin Road, Union Gap, WA 98903. The equipment shall be delivered far enough in advance of actual need to allow for testing by the agency. Upon successful completion of testing, the signal controller equipment shall be available for pickup.

The Contractor shall not pick up the controller cabinet from the WSDOT South Central Region signal shop until the electrical service is energized and all site preparation required to install the controller cabinet is complete.

9-29.13(3) Emergency Preemption

Section 9-29.13(6) is supplemented with the following:

(******)

1. Detectors – The detectors shall be 3M Model 722.
2. Opticom Detector Lead-in-Cable – Three (3) conductor shielded cable shall be 3 M Brand “Opticom” type 138.
3. Emergency preemption logic shall be as follows:

<table>
<thead>
<tr>
<th>Plan No</th>
<th>Direction</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Eastbound</td>
<td>2 &amp; 5</td>
</tr>
<tr>
<td>B</td>
<td>Southbound</td>
<td>4 &amp; 7</td>
</tr>
<tr>
<td>C</td>
<td>Westbound</td>
<td>1 &amp; 6</td>
</tr>
<tr>
<td>D</td>
<td>Northbound</td>
<td>3 &amp; 8</td>
</tr>
</tbody>
</table>
The pre-emption system shall work as follows:
When a pre-emption call is registered for the phase or phases the
controller is presently serving, the controller shall remain in that phase
until the call is dropped.

When a pre-emption call is registered while the controller is serving a
vehicular or pedestrian phase other than the pre-emption phase called for,
a clearance interval (for pedestrians and vehicles) shall immediately be
timed.

The controller shall then go to emergency pre-emption phases being called
for skipping all other vehicular and pedestrian calls whether or not calls
exist.

During any pre-emption phase, the “Hand Symbol” shall be displayed on
all pedestrian signal heads.

9-29.13(7)E Type 170E, 170E-HC-11, 2070, 2070 Lite, ATC Controller Cabinets

Section 9-29.13(7)E paragraph 1 item 4 is deleted and replaced with:

“An incandescent interior cabinet light shall be mounted at the top of the
enclosure near the rear door with door switch to automatically energize
when the door opens. The light shall be installed a minimum of 12 inches
from the vent fan thermostat. The switch shall be labeled “light”. ‘White’
LED ‘rope light’ cabinet light shall be mounted around the inside of the
doors frame of each door and wired to the door switch.”

Section 9-29.13(7)E is supplemented with the following:

(******)
Controller cabinet shall be Model Double 332.

Double 332 cabinet shall meet the following:

a. The 332D Controller cabinet shall have the appearance of two Type
332 controller cabinets joined at opposing sides. The outside
Dimensions of the cabinet shall be 67” High X 48 1/2” Wide X 30
1/4” Deep.

b. The right side of the cabinet, as viewed from the front, shall be
considered the Signal Control side. The left side of the cabinet, when
viewed from the front, shall be considered the UPS side.
c. One police access panel shall be installed on the right side of the cabinet, as viewed from the front.

d. Vacant

e. Vacant

f. The Traffic Signal Control side of the cabinet shall contain the Traffic Signal Controller assembly and shall be furnished with equipment as described in the contract specifications.

g. The ITS/COMM side of the cabinet shall contain contain the uninterruptible power supply (UPS) unites and shall be furnished with the following:

1. One controller shelf unit, mounted 36 inches from the bottom of the cabinet opening to the front of the cabinet and attaching to the front rails of the EIA rack, shall be provided. The shelf shall be fabricated from aluminum and shall contain a rollout flip-top drawer for storage of wiring diagrams and manuals.

2. Vacant

3. Vacant

h. Vacant

i. The 332D controller cabinet input file wiring shall be modified to accept “View Com” video monitoring board.

(*****)

Communication

The Contractor shall be responsible for the installation wireless Ethernet antenna system compatible with existing system. The system shall include but not limited to the antenna, mounting hardware, Ethernet switch, and making the necessary connections to establish communication with existing signal controller at Terrace Heights Dr/N 41st Street intersection. The contractor shall be responsible for performance testing upon installation.

The wireless Ethernet antenna system shall include but not limited to:

a. Wireless Transceiver: ENCOM 5100 902-928 Mhz FSK radio
c. Yagi antenna compatible with the above radio
d. Antenna mounting hardware: Astro-Brac
Video Detection

The Video Detection System shall consist of TRAFICON video detection equipment, auxiliary equipment, cameras, housings, and mounts, and all required mounting hardware, cables, connectors, and wiring.

The following video detection system components shall be manufactured by TRAFICON, Inc. and installed in accordance with the plans.

1. Equipment Model Numbers:
   - Video Detection Board
   - TRAFICON VIP 3.2D
   - Video Detection Expansion Board
   - TRAFICON 4-I/O Expansion Board
   - Video Detection Remote Monitoring Board
   - TRAFICON VIEWCOM/E Remote Monitoring Board

2. Manufacturer:
   - TRAFICON, Inc.
     2530 19th Street SE
     Salem, OR 97302
     Tel: (503) 315-9899 Fax: (503)315-9913

Camera and Housing Assembly: High resolution 1/3" image format Black and White CCD camera with a motorized zoom auto-iris lens installed and wired in an aluminum weatherproof housing. The power, video, and lens control wiring shall be provided and be pre-wired to the power supply, camera, and lens. The wires shall be unterminated.

Camera Mounting: Pelco Astro-Brac Extended Tilt & Pan mount, part AB-0169 with cable mount and 72 inch tube. The cable mount shall be suitable for the mast arm diameter at each camera installation location.

Camera: Rainbow BL58D or equivalent approved by the Engineer meeting these minimum specifications:

<table>
<thead>
<tr>
<th>Power</th>
<th>12VDC or 24VAC, 60Hz, 250mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCD</td>
<td>1/3&quot; Interline transfer</td>
</tr>
<tr>
<td>CCD Size (pixels)</td>
<td>768 horizontal x 494 vertical</td>
</tr>
<tr>
<td>Horizontal Resolution</td>
<td>580 TV Lines</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>.005 fC (0.06 lux) at f 1.2</td>
</tr>
<tr>
<td>Video Output</td>
<td>1 V peak to peak +/- 0.1V at 75 ohms</td>
</tr>
<tr>
<td>Sync System</td>
<td>Phase adjustable line lock, EIA RS-170</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Signal to Noise</td>
<td>54 dB Minimum</td>
</tr>
<tr>
<td>AGC</td>
<td>30 dB</td>
</tr>
<tr>
<td>Lens Mount</td>
<td>CS/C</td>
</tr>
<tr>
<td>Iris Control</td>
<td>Automatic, with connector to control iris in lens</td>
</tr>
<tr>
<td>Environmental</td>
<td>14°F to 122°F at 85% relative humidity</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Three ( \frac{1}{4} )&quot;-20 threaded mounting holes</td>
</tr>
</tbody>
</table>

Lens: Rainbow L6X6.5MEA/CS or equivalent meeting these minimum specifications:

<table>
<thead>
<tr>
<th>Focal Length</th>
<th>6.3mm – 38.0mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of View</td>
<td>6.3mm : 7.0° x 5.3°</td>
</tr>
<tr>
<td></td>
<td>38.0mm: 40.5° x 31.0°</td>
</tr>
<tr>
<td>Back Focal Distance</td>
<td>11.76mm</td>
</tr>
<tr>
<td>Iris:</td>
<td>Motorized, with connector to allow camera control, Composite Video or Video signal.</td>
</tr>
<tr>
<td>Zoom:</td>
<td>Motorized</td>
</tr>
<tr>
<td>Focus</td>
<td>Motorized</td>
</tr>
<tr>
<td>Mount:</td>
<td>CS/C</td>
</tr>
<tr>
<td>Filter Size</td>
<td>52mm</td>
</tr>
</tbody>
</table>

Housing: Extruded aluminum weatherproof housing suitable for the above camera and lens, and having an integral power transformer for the camera and the defogger, meeting these specifications:

<table>
<thead>
<tr>
<th>Rating:</th>
<th>NEMA 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power - IN:</td>
<td>108 to 132 VAC</td>
</tr>
<tr>
<td>Power – OUT to camera</td>
<td>24VAC</td>
</tr>
<tr>
<td>Window:</td>
<td>1/8&quot; glass with integral thermostatically controlled 10 watt heater</td>
</tr>
<tr>
<td>Cable Entry:</td>
<td>Liquid-tight strain relieved fitting suitable for the cable provided with the camera assembly</td>
</tr>
<tr>
<td>Mounting</td>
<td>Three ( \frac{1}{4} )&quot;-20 threaded holes</td>
</tr>
<tr>
<td>Sunshield</td>
<td>Provided</td>
</tr>
</tbody>
</table>

Wiring:

| Video/Power/Lens control: | 6-Conductor dual-element conforming to the specification given above in the supplement to 9-29.3(2)J, “Video Detection Cable” |

C 3288 Terrace Heights Dr & Butterfield Rd Signalization
Surge Suppression: Each camera assembly shall have a surge suppressor which shall be installed inside the traffic signal controller cabinet. The surge suppressor shall be an EDCO CX06-BNCY or equivalent meeting these specifications:

<table>
<thead>
<tr>
<th>Peak Surge Current</th>
<th>5Ka</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Hybrid, Solid State</td>
</tr>
<tr>
<td>Attenuation</td>
<td>0.1dB @ 10 Mhz</td>
</tr>
<tr>
<td>Response Time</td>
<td>&lt;1 nanosecond</td>
</tr>
<tr>
<td>Protection</td>
<td>Line to Ground</td>
</tr>
<tr>
<td>Clamp Voltage</td>
<td>6 V</td>
</tr>
<tr>
<td>Connectors</td>
<td>BNC</td>
</tr>
<tr>
<td>Impedance</td>
<td>75 ohms</td>
</tr>
<tr>
<td>Environmental</td>
<td>-40°F to 185°F</td>
</tr>
<tr>
<td>Mechanical</td>
<td>4½&quot; x 1½&quot; x 1¼&quot;</td>
</tr>
</tbody>
</table>

Installation
The Contractor shall install the video cameras and wiring to the cabinet, and make all necessary connections.

The product supplier of the video detection system shall supervise the installation and testing of the video equipment. A factory certified representative from the manufacturer shall be on-site during installation. The factory representative shall install, make fully operational, and test the system as indicated on the contract plans and this Specification.

(*****)
Uninterrupted Power System

The contractor shall install a fully functional "Alpha" Uninterrupted Power System (UPS). The UPS shall be a complete system including all necessary hardware and wiring capable of providing sufficient power to operate the complete traffic signal system for a minimum of four (4) hours of normal operation. The UPS controller and batteries shall be housed in the traffic signal controller Double 332 cabinet in the left side. The UPS cabinet generator plug connection shall be NEMA L5-30P. The location of the plug shall be on the side of the cabinet as shown in the plan detail.

9-29.17 Signal Head Mounting Brackets and Fittings

Section 9-29.17 is supplemented with the following:

(*****)
Type N mounts shall be used for all signal heads. Type E mounts shall be used for all pedestrian signal heads on traffic standards.

9-29.19 Pedestrian Push Buttons
Section 9-29.19 is supplemented with the following:

(******)
Installation of pedestrian push buttons shall be Type PPB-M as shown in standard plan.

9-29.20 Pedestrian Signals

Section 9-29.20 is supplemented with the following:

(******)
Pedestrian signal heads shall be the countdown type (side by side hand over man on the left and time on the right) LED type

The contractor shall submit drawings and/or shop drawings for approval by the Engineer prior to placing their order.

9-34 Pavement Marking Material

9-34.1 General

Section 9-34.1 is supplemented with the following:

(******)
Pavement marking materials shall be low VOC Solvent Based Paint or Low VOC Waterborne Paint.

(August 5, 2013)
STANDARD PLANS

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01 transmitted under Publications Transmittal No. PT 13-037, effective August 5, 2013 is made a part of this contract.

The Standard Plans are revised as follows:

A-50.10
Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10

A-50.20
Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10

A-50.30
Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.10

B-10.20 and B-10.40
Substitute “step” in lieu of “handhold” on plan

B-25.20
Add Note 7. See Standard Specification Section 8-04 for Curb and Gutter requirements

B-90.40
Offset & Bend details, add the subtitle, “Plan View” above titles

C-16a
Note 1, reference C-28.40 is revised to C-20.10

C-16b
Note 3, reference C-28.40 is revised to C-20.10

C-70.10-00
Elevation, and Barrier Connection Detail, callout for premolded joint filler, revise ¼” to 3/8”, Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire reinforcements shall conform to Standard Specification Sections 6-10 and 9-07*” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-75.10-00
Elevation, callout for premolded joint filler, revise ¼” to 3/8”, Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire reinforcements shall conform to Standard Specification Sections 6-10 and 9-07*” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-75.20-00
Elevation, callout for premolded joint filler, revise ¼” to 3/8”, Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire reinforcements shall conform to Standard Specification Sections 6-10 and 9-07*” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-75.30-00
Elevation, and Plan views, callout for premolded joint filler, revise ¼” to 3/8”, Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire reinforcements shall conform to Standard Specification Sections 6-10 and 9-07*” is revised to read: “Steel Welded Wire Reinforcement Deformed,
for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.10-00
The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.20-00
The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.30-00
The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.40-00
The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-85.14
General Notes, Note 1, reference to Standard Plan C-13 is revised to C-70.10

C-85.15
General Notes, Note 2, reference to Standard Plan C-13 is revised to C-70.10

C-85.16
General Notes, Note 1, reference to Standard Plan C-13 is revised to C-70.10

C-85.18
General Notes, Note 1, reference to Standard Plan C-13 is revised to C-70.10

C-85.20
General Notes, Note 3, reference to Standard Plan C-13 is revised to C-70.10
D-3.10  
Key Note 7, reference to 1130.04(5).06 is revised to 730.05(5)

F-10.12  

F-10.62  
Plan Title, Precast Concrete Sloped Mountable Curb is revised to read; “Precast Sloped Mountable Curb”

F-10.64  
Plan Title, Plan Title, Precast Concrete Dual Faced Sloped Mountable Curb is revised to read; “Precast Dual Faced Sloped Mountable Curb”

F-30.10  
Sections, left side of sheet, (4 places), dimension, Sidewalk - 6’ - 0” MIN.(See Contract) is revised to read; “Sidewalk (See Contract)”
Section, top middle of sheet, dimension, Sidewalk - 6’ - 0” MIN. (See Contract) is revised to read; “Sidewalk (See Contract)”

F-80.10  
callout, top middle of sheet, Match Sidewalk Width See Contract Plans ~ 4’ - 0” MIN. is revised to read; “Match Sidewalk Width See Contract Plans”
dimension, PLAN VIEW TYPE 2, (2 places), 4’ - 0” MIN, is revised to read; “(See Contract)”
dimension, SECTION C, See Contract Plans ~ 4’ - 0” MIN. is revised to read; “See Contract Plans”

G-60.20  
Side View, callout, “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 4 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.” is revised to read; “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 6 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.”

G-60.30  
End View, callout, “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 4 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.” is revised to read; “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 6 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.”

H-70.20  
Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is revised to H-70.10
J-3b
Sheet 2 of 2, Plan View of Service Cabinet, Boxed Note, “SEE STANDARD PLAN J-6C...” is revised to read: “SEE STANDARD PLAN J-10.10...”
Sheet 2 of 2, Plan View of Service Cabinet Notes, references to Std. Plan J-9a are revised to J-60.05 (3 instances).

J-10.10
Note 2. The contractor shall install the conduits in the locations shown. Conduits shall extend 2” min. above the coupling. The conduit containing unfused utility conductors shall extend into the utility chase is revised to read:

"The contractor shall install the conduits in the locations shown. Conduits shall extend 2” min. above the coupling. The grounded end bushing on GRS conduit and the end bell bushing on PVC conduit shall extend 3” max. above the coupling. The conduit containing unfused utility conductors shall extend into the utility chase."

Note 4. The cabinets shall be attached to the foundation with 4 each: 1/2” x 12” x 2” x 4” hot dip galv. anchor bolts, washers, and nuts. Stainless steel epoxy anchors may be used as an alternative, and shall be 1/2” diam. x 9”, or 5/8” diam. x 8”. Bolts shall extend 1 1/2” min. to 2” max. above the concrete pad is revised to read:

"The cabinets shall be attached to the foundation with 4 each: ½” x 12” x 2” x 4” anchor bolts, washers, and nuts conforming to Section 9-06.5(1) and galvanized after fabrication in accordance with AASHTO M 232. Stainless steel epoxy anchors may be used as an alternative, and shall be ½” diameter x 9”, or 5/8” diameter x 8”. Threaded Rod (conforming to ASTM F 593), washers (conforming to ASTM A 240), and nuts (conforming to ASTM F 594), all shall be Type 304 stainless steel. Bolts shall extend 1 ½” min. to 2” max. above the concrete pad."

J-10.15
ANCHOR BOLT detail, callout – ASTM A307 with washer and nut – Galvanized per AASHTO M 232 is revised to read; “Anchor bolts, washers, and nuts conforming to Section 9-06.5(1) and galvanized after fabrication in accordance with AASHTO M 232 “

J-15.10
Elevation View (3x), Depth dimension, reads; "Depth ~ See Std. Spec. 9-20.3(14)E and Contract", revised to read; "Depth ~ See Std. Spec. 8-20.3(13)A and Contract"

J-15.15
General Notes, Note 3, reference to Standard Plan J-7c is revised to J-27.15

J-16b
Deleted
I-20.10-02
Foundation Detail, callout, “1/2” diameter steel hex nut, with 1 1/2” flat washer (2) each req’d per anchor bolt” is revised to read; 1/2” diameter steel heavy hex nut, with 1/2” flat washer (2) each req’d per anchor bolt

I-20.11-01
Sheet 1, View A, callout, “1/2” x 26” full thread ~ (4) required 1/2” hex nuts ~ (4) required per anchor bolt” is revised to read; “1/2” x 24” full thread ~ (4) required 1/2” heavy hex nuts ~ (4) required per anchor bolt”

Section B, callout, “1/2” diameter steel hex nut, with 1/2” flat washer, (2) required per anchor bolt” is revised to read; 1/2” diameter steel heavy hex nut, with 1/2” flat washer, (2) required per anchor bolt

Sheet 2, Elevation, callout, “Anchor bolt 1/2” x 28” full thread ~ (4) required 1/2” hex nuts ~ (4) required per anchor bolt” is revised to read: Anchor bolt 3/4” x 36” full thread ~ (4) required 3/4” heavy hex nuts ~ (4) required per anchor bolt”

I-20.16
Elevation, callout, “1/4” Premolded Joint Filler” is revised to read; “3/8” Premolded Joint Filler”

Add General Note 9. “Junction Box serving the Standard shall preferably be located 5’ – 0” (10’ – 0” Max.) from the Standard.”

I-21.10-03
Sheet 1, Round Concrete Foundation Detail, Elevation, callout, “3/4” hex nuts, steel, (4) Req’d. per Anchor Bolt” is revised to read; Anchor bolt 3/4” x 30” full thread ~ (4) required 3/4” heavy hex nuts, steel, (4) Req’d. per Anchor Bolt

Sheet 1, Square Concrete Foundation Detail, Elevation, callout, “3/4” hex nuts, steel, (4) Req’d. per Anchor Bolt” is revised to read; Anchor bolt 3/4” x 30” full thread ~ (4) required 3/4” heavy hex nuts, steel, (4) Req’d. per Anchor Bolt

Sheet 1, Detail C, callout, “Base Plate Assembly ~ 1/2” Diam. steel hex nut, with 1 1/2” flat washer, 2 each req’d per anchor bolt ~ minimum of 2 threads above top of nut or 5/8” maximum (Typ.)” is revised to read; Base Plate Assembly ~ 3/4” heavy hex nut, with 3/4” flat washer, 2 each req’d per anchor bolt ~ minimum of 2 threads above top of nut or 5/8” maximum (Typ.)”

Sheet 2, Round Concrete Foundation Detail, Elevation, callout, “Anchor Bolts ~ (4) req’d per assembly (Typ.)” is revised to read; Anchor Bolt 3/4” x 30” full thread ~ (4) req’d per assembly (Typ.)”
Callout, “3/4” hex nuts, steel ~ (4) req’d. per anchor bolt” is revised to read; 3/4” heavy hex nuts, steel ~ (4) req’d. per anchor bolt

Sheet 2, Round Concrete Foundation Detail, Elevation, callout, “Anchor Bolts ~ (4) req’d per assembly (Typ.)” is revised to read; Anchor Bolt 3/4” x 30” full thread ~ (4) req’d per assembly (Typ.)”
Callout, “3/4” hex nuts, steel ~ (4) req’d. per anchor bolt” is revised to read; 3/4” heavy hex nuts, steel ~ (4) req’d. per anchor bolt

J-22.15-01
Ramp Meter Signal Standard, elevation, dimension 4’6” is revised to read; 6’-0”

J-29.10
Galvanized Welded Wire Mesh detail, callout – “Drill and Tap for 1/4” Diam. Cap Screw, 3 Places, @ 9” center, all 4 edges S.S. Screw, ASTM F593 and washer”
Is revised to read;
“Drill and Tap for 1/4” Diam. Cap Screw, 3 Places, @ 9” center, all 4 edges S.S. Screw, ASTM F593 and washer. Liberally coat the threads with Anti-seize Compound.”

J-29.15
Title, “Camera Pole Standard” is revised to read; “Camera Pole Standard Details”

J-29.16
Title, “Camera Pole Standard Details” is revised to read; “Camera Pole Details”

J-60.14
All references to J-16b (6x) are revised to read; J-60.11

J-75.40
Monotube Sign Structure, elevation, callout – EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC. MINIMUM SIZE # 8
Is revised to read; EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC minimum size # 4 AWG

Detail C, callout – EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC MIN. SIZE # 8
Is revised to read; EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC minimum size # 4 AWG

Detail C, callout – Stainless Steel, selftapping 1/4” Diam. Screw w/ S.S. Washer, space approx. 9” O.C. is revised to read; “Stainless Steel, selftapping 1/4” Diam. Screw w/ S.S. Washer, space approx. 9” O.C., liberally coat the threads with Anti-seize compound”

J-75.45
elevation, callout – EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC. MINIMUM SIZE # 8
Is revised to read:

EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC minimum size # 4 AWG

Detail D, callout - EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC MIN. SIZE # 8

Is revised to read:

EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC minimum size # 4 AWG
Detail C, callout - Stainless Steel, self-tapping ¼" Diam. Screw w/ S.S. Washer, space approx. 9" O.C. is revised to read; “Stainless Steel, self-tapping ¼" Diam. Screw w/ S.S. Washer, space approx. 9" O.C., liberally coat the threads with Anti-seize compound”

J-90.10
Section B, callout, “Hardware Mounting Rack ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

J-90.20
Section B, callout, “Hardware Mounting Rack (Typ.) ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

K-80.30
In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan K-80.35

The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

A-10.10-00......8/7/07 A-30.35-00......10/12/07 A-50.20-01......9/22/09
A-10.20-00......10/5/07 A-40.00-00......8/11/09 A-50.30-00......11/17/08
A-10.30-00......10/5/07 A-40.10-02......6/2/11 A-50.40-00......11/17/08
A-20.10-00......8/31/07 A-40.15-00......8/11/09 A-60.10-01......10/14/09
A-30.10-00......11/8/07 A-40.20-02......5/29/13 A-60.20-02......6/2/11
A-30.15-00......11/8/07 A-40.50-01......6/2/11 A-60.30-00......11/8/07
A-30.30-01......6/16/11 A-50.10-00......11/17/08 A-60.40-00......8/31/07
B-5.20-01......6/16/11 B-30.50-01......4/26/12 B-75.20-01......6/10/08
B-5.40-01......6/16/11 B-30.70-03......4/26/12 B-75.50-01......6/10/08
B-5.60-01......6/16/11 B-30.80-00......6/8/06 B-75.60-00......6/8/06
B-10.20-01......2/7/12 B-30.90-01......9/20/07 B-80.20-00......6/8/06
B-10.40-00......6/1/06 B-35.20-00......6/8/06 B-80.40-00......6/1/06
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<tr>
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<th>Date</th>
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<tr>
<td>B-15.20-01</td>
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<td>B-85.30-00</td>
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<tr>
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<td>3/16/12</td>
<td>B-45.40-00</td>
<td>6/1/06</td>
<td>B-85.40-00</td>
<td>6/8/06</td>
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<tr>
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C 3288 Terrace Heights Dr & Butterfield Rd Signalization

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APPENDIX A
REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Nonsegregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety; Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Compliance with Governmentwide Suspension and Debarment Requirements
XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor’s project activities under
this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other terms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility and for must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are
applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e. apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 29 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or quialfiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor
will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are inadequate. The term "facilities" includes such items as waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

   a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

   Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein. Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conforming under paragraph 1.b. of this section) and the Davis-Bacon poster (VH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

   b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

   (i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

   (ii) The classification is utilized in the area by the construction industry; and

   (iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

   (2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

   (3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall rate the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or
will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.2 or 1.b.3 of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee’s social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/wd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5(a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5(a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination.

Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.
d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor’s firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).


V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2. of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph 1. through 4. of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 4. of this section.
VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

   a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

      (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
      (2) the prime contractor remains responsible for the quality of the work of the leased employees;
      (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
      (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

   b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct the performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary for the safety of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out all of the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project.

18 U.S.C. 1020 reads as follows:
"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to section 508 of the Federal-Aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 305 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, license agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more — as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification — First Tier Participants:

   a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

   b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

   c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

   d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

   e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

   f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not be a covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

   g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

   h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, declared, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not debarred, suspended, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epsl.gov), which is compiled by the General Services Administration.
i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

   (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

   (2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

   (3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

   (4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction, "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers to any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.spls.gov), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the
department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion–Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

   a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

   b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.
ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

   a. To the extent that qualified persons regularly residing in the area are not available.

   b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

   c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor’s permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 833.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.
APPENDIX B
PREVAILING WAGE RATES
WASHINGTON STATE
PREVAILING WAGE RATES
### Washington State Prevailing Wage

The PREVALLING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's

#### Journey Level Prevailing Wage Rates for the Effective Date: 12/18/2013

<table>
<thead>
<tr>
<th>County</th>
<th>Trade</th>
<th>Job Classification</th>
<th>Wage</th>
<th>Holiday</th>
<th>Overtime</th>
<th>Note</th>
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<td>Sloper (over 20 ft)</td>
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<td>Tamper &amp; Similar Electric, Air &amp; Gas Operated Tools</td>
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<td>Tamper (multiple &amp; Self-propelled)</td>
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<td>Power Equipment Operators</td>
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<td>Power Equipment Operators</td>
<td>Forklifts: 3000 Lbs And Over With Attachments</td>
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<td>Hard Tail End Dump Articulating Off-Road Equipment, 45 Yards. &amp; Over</td>
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<td>Yakima</td>
<td>Power Equipment Operators</td>
<td>Hydralifts/boom Trucks Over 10 Tons</td>
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<td>Power Equipment Operators</td>
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<td>Power Equipment Operators</td>
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<td>Oil Distributors, Blower Distribution &amp; Mulch Seeding Operator</td>
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<td>Overhead, Bridge Type Crane: 20 Tons Through 44 Tons</td>
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<td>Pile Driver (other Than Crane Mount)</td>
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<td>Roller, Plant Mix Or Multi-lift Materials</td>
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<td>Scaper, Self Propelled Under 45 Yards</td>
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<td>Scapers, Self-propelled: 45 Yards And Over</td>
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<td>Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons.</td>
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<td>Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons</td>
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<td>Power Equipment Operators</td>
<td>Shovel, Excavator, Backhoes: 15 To 30 Metric Tons</td>
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<td>Power Equipment Operators</td>
<td>Shovel, Excavator, Backhoes: Over 50 Metric Tons</td>
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<td>Yakima</td>
<td>Power Equipment Operators</td>
<td>Spreader, Topsoiler &amp; Screenman</td>
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<td>Power Equipment Operators</td>
<td>Tower Bucket Elevators</td>
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<td>Yakima</td>
<td>Power Equipment Operators</td>
<td>Tower Crane Over 175' in Height, Base To Boom</td>
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<td>Yakima</td>
<td>Power Equipment Operators</td>
<td>Tower Crane Up To 175' In Height Base To Boom</td>
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<td>Yakima</td>
<td>Power Equipment Operators</td>
<td>Transports, All Track Or Truck Type</td>
<td>$53.49</td>
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<td>Yakima</td>
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<td>Yakima</td>
<td>Power Equipment Operators</td>
<td>Truck Crane Oiler/driver - 100 Tons And Over</td>
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<td>Yakima</td>
<td>Power Equipment Operators</td>
<td>Truck Crane Oiler/driver Under 100 Tons</td>
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<td>Barrier Machine (ripper)</td>
<td>$53.00</td>
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<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Batch Plant Operator, Concrete</td>
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<td>TA</td>
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<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
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<td>Bump Cutter</td>
<td>$53.00</td>
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<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Chipper</td>
<td>$53.00</td>
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<td>JG</td>
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<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
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<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Concrete Pump: Truck Mount With Boom Attachment Over 42 M.</td>
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<td>TA</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Concrete Finish Machine -laser Screed</td>
<td>$50.22</td>
<td>TA</td>
<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.</td>
<td>$52.58</td>
<td>TA</td>
<td>JG</td>
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<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Concrete Pump: Truck Mount With Boom Attachment Up To 42m</td>
<td>$53.00</td>
<td>TA</td>
<td>JG</td>
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<td>Conveyors</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: 20 Tons Through 44 Tons With Attachments</td>
<td>$53.00</td>
<td>TA</td>
<td>JG</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)</td>
<td>$54.04</td>
<td>TA</td>
<td>JG</td>
<td>BP</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: 200 Tons To 300 Tons, Or 250' Of Boom (Including Jib With Attachments)</td>
<td>$54.61</td>
<td>TA</td>
<td>JG</td>
<td>BP</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (Including Jib With Attachments)</td>
<td>$53.49</td>
<td>TA</td>
<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: A-frame - 10 Tons And Under</td>
<td>$50.22</td>
<td>TA</td>
<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: Friction 100 Tons Through 199 Tons</td>
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<td>TA</td>
<td>JG</td>
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<td>Cranes: Friction Over 200 Tons</td>
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<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: Over 300 Tons Or 300' Of Boom (Including Jib With Attachments)</td>
<td>$55.17</td>
<td>TA</td>
<td>JG</td>
<td>BP</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons</td>
<td>$52.58</td>
<td>TA</td>
<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Crusher</td>
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<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Deck Engineer/deck Winches (power)</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Derricks, On Building Work</td>
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<td>TA</td>
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<td>BP</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Dozers D-9 &amp; Under</td>
<td>$52.58</td>
<td>TA</td>
<td>JG</td>
<td>BP</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Drill Oilers: Auger Type, Truck Or Crane Mount</td>
<td>$52.58</td>
<td>TA</td>
<td>JG</td>
<td>BP</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Drilling Machine</td>
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<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Elevator And Man-lift: Permanent And Shaft Type</td>
<td>$50.22</td>
<td>TA</td>
<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Finishing Machine, Bidwell And Gamaco &amp; Similar Equipment</td>
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<td>TA</td>
<td>JG</td>
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<td>Yakima</td>
<td>Power Equipment Operators, Underground Sewer &amp; Water</td>
<td>Forklift: 3000 Lbs And Over With Attachments</td>
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<td>BP</td>
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<td>Grade Engineer: Using Blue Prints, Cut Sheets, Etc</td>
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<td>TA</td>
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<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Gradechecker/stakeeman</td>
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<td>ZA</td>
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<td>8p</td>
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<td>Guardrail Punch</td>
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<td>ZA</td>
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<td>Hard Tail End Dump Articulating Off-Road Equipment 45 Yards &amp; Over</td>
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<td>ZA</td>
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<td>8p</td>
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<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards</td>
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<td>ZA</td>
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<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Horizontal/directional Drill Locator</td>
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<td>3c</td>
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<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Horizontal/directional Drill Operator</td>
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<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Hydralifts/boom Trucks Over 10 Tons</td>
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<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Hydralifts/boom Trucks, 10 Tons And Under</td>
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<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Loader, Overhead 8 Yards &amp; Over</td>
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<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Loader, Overhead, 6 Yards. But Not Including 8 Yards</td>
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<td>ZA</td>
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<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Loaders, Overhead Under 6 Yards</td>
<td>$53.00</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Loaders, Plant Feed</td>
<td>$53.00</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Loaders: Elevating Type Belt</td>
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<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Locomotives, All</td>
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<td>ZA</td>
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<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Material Transfer Device</td>
<td>$53.00</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Mechanics, All (leadmen - $0.50 Per Hour Over Mechanic)</td>
<td>$54.04</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Motor Patrol Grader - Non-finishing</td>
<td>$52.50</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Motor Patrol Graders, Finishing</td>
<td>$53.49</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Mucking Machine, Hale, Tunnel Draft, Boring, Road Header And/or Shield</td>
<td>$53.49</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Oil Distributors, Blower Distribution &amp; Mulch Seeding Operator</td>
<td>$50.22</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Outside Holists (elevators And Manlifts), Air Tuggers, strato</td>
<td>$52.50</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Overhead, Bridge Type Crane: 20 Tons Through 44 Tons</td>
<td>$53.00</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
</tr>
<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Overhead, Bridge Type: 100 Tons And Over</td>
<td>$54.04</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Overhead, Bridge Type: 45 Tons Through 99 Tons</td>
<td>$53.49</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Pavement Breaker</td>
<td>$50.22</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Pile Driver (other Than Crane Mount)</td>
<td>$53.00</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<tr>
<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Plant Oilier - Asphalt, Crusher</td>
<td>$52.50</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Posthole Digger, Mechanical</td>
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<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Power Plant</td>
<td>$50.22</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Pumps - Water</td>
<td>$50.22</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Quad 9, Hd 41, D10 And Over</td>
<td>$53.49</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Quick Tower - No Cab, Under 100 Feet In Height Based To Boom</td>
<td>$50.22</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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<td>Yakima</td>
<td>Power Equipment Operators: Underground Sewer &amp; Water</td>
<td>Rigger And Bellman</td>
<td>$50.22</td>
<td>ZA</td>
<td>3c</td>
<td>8p</td>
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WASHINGTON STATE
PREVAILING WAGE RATES
BENEFIT KEY CODE
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.
1. N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.

P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.

R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.

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.
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.

K. All hours worked on holidays shall be paid at two times the hourly rate of wage in addition to the holiday pay.

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 twelve (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.

Y. All hours worked on Saturdays (except for make-up days) 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.

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.
3. B. 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, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

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.

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 paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.

G. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, 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 8:00 am Sunday to 8:00 am Monday and Holidays shall be paid at double the straight time rate of pay. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

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.

**Holiday Codes**


Benefit Code Key – Effective 8-31-2013 thru 3-4-2014


Holiday Codes Continued


Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).


Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.

**Holiday Codes Continued**


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.


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.


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.
Benefit Code Key – Effective 8-31-2013 thru 3-4-2014

I. Holidays: New Year’s Day, President’s Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

7. J. Holidays: New Year’s Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

K. Holidays: New Year’s Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

L. Holidays: New Year’s Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

M. Paid Holidays: New Year’s Day, The Day after or before New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day. 10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

N. Holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.


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.

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:
Benefit Code Key – Effective 8-31-2013 thru 3-4-2014

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

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.

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.
WASHINGTON STATE
PREVAILING WAGE RATES
SUPPLEMENTAL
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.
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.

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>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</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>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.</td>
<td></td>
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<tr>
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</tr>
<tr>
<td>8. Anchor Bolts &amp; 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.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>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).</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>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.</td>
<td>X</td>
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<tr>
<td>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).</td>
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<td>X</td>
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<tr>
<td>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..</td>
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<tr>
<td>14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.</td>
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<tr>
<td>15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.</td>
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<tr>
<td>17. Precast Concrete Inlet - with adjustment sections, See Std. Plans</td>
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<tr>
<td>18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.</td>
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<tr>
<td>19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans</td>
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<tr>
<td>20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans</td>
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</tr>
<tr>
<td>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</td>
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<tr>
<td>22. Vault Risers - For use with Valve Vaults and Utilities Vaults.</td>
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<tr>
<td>23. Valve Vault - For use with underground utilities. See Contract Plans for details.</td>
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<tr>
<td>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.</td>
<td></td>
<td>X</td>
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<tr>
<td>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.</td>
<td></td>
<td>X</td>
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<tr>
<td>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</td>
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<tr>
<td>ITEM DESCRIPTION</td>
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<tr>
<td>27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.</td>
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<td>28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast</td>
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<td>Pretressed Girder for use in structures. Fabricator plant has annual approval</td>
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<td>of methods and materials to be used. Shop Drawing to be provided for approval</td>
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<td>prior to casting girders. See Std. Spec. Section 6-02.3(25A)</td>
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<td>29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for</td>
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<td>use in structures. Fabricator plant has annual approval of methods and</td>
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<td>materials to be used. Shop Drawing to be provided for approval prior to casting</td>
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<tr>
<td>girders. See Std. Spec. Section 6-02.3(25A)</td>
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<tr>
<td>30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in</td>
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<td>structures. Fabricator plant has annual approval of methods and materials to</td>
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<tr>
<td>be used. Shop Drawing to be provided for approval prior to casting girders.</td>
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<tr>
<td>See Std. Spec. Section 6-02.3(25A)</td>
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<tr>
<td>31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core</td>
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<td>slab for use in structures. Fabricator plant has annual approval of methods</td>
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<td>and materials to be used. Shop Drawing to be provided for approval prior to</td>
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<tr>
<td>casting girders. See Std. Spec. Section 6-02.3(25A).</td>
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<tr>
<td>32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in</td>
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<tr>
<td>structures. Fabricator plant has annual approval of methods and materials to</td>
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<tr>
<td>be used. Shop Drawing to be provided for approval prior to casting girders.</td>
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<tr>
<td>See Std. Spec. Section 6-02.3(25A)</td>
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<td></td>
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<tr>
<td>33. Monument Case and Cover</td>
<td></td>
<td>X</td>
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<tr>
<td>See Std. Plan.</td>
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<tr>
<td>ITEM DESCRIPTION</td>
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<tr>
<td>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.</td>
<td></td>
<td>X</td>
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<tr>
<td>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.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication</td>
<td>X</td>
<td></td>
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<tr>
<td>38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Specia Provisions for pre-approved drawings.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.</td>
<td></td>
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</tr>
<tr>
<td>ITEM DESCRIPTION</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>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. <strong>NOTE:</strong> *<strong>Fabrication inspection required. Only signs tagged &quot;Fabrication Approved&quot; by WSDOT Sign Fabrication Inspector to be installed</strong></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>43. Cutting &amp; bending reinforcing steel</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>44. Guardrail components</td>
<td>X</td>
<td>X</td>
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<td>45. Aggregates/Concrete mixes</td>
<td></td>
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<td>46. Asphalt</td>
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<td>47. Fiber fabrics</td>
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<td>X</td>
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<tr>
<td>48. Electrical wiring/components</td>
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<td>X</td>
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<tr>
<td>49. treated or untreated timber pile</td>
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<td>X</td>
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<tr>
<td>50. Girder pads (elastomeric bearing)</td>
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<td>X</td>
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<tr>
<td>51. Standard Dimension lumber</td>
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<td>X</td>
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<tr>
<td>52. Irrigation components</td>
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**Custom Message**

**Std Signing Message**

Covered by WAC 296-127-016
<table>
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<tr>
<th>ITEM DESCRIPTION</th>
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<tbody>
<tr>
<td>53. Fencing materials</td>
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<tr>
<td>54. Guide Posts</td>
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<td>X</td>
</tr>
<tr>
<td>55. Traffic Buttons</td>
<td></td>
<td>X</td>
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<tr>
<td>56. Epoxy</td>
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<tr>
<td>57. Cribbing</td>
<td></td>
<td>X</td>
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<tr>
<td>58. Water distribution materials</td>
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<td>X</td>
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<tr>
<td>59. Steel &quot;H&quot; piles</td>
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<td>X</td>
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<tr>
<td>60. Steel pipe for concrete pile casings</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>61. Steel pile tips, standard</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>62. Steel pile tips, custom</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

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.

Supplemental to Wage Rates
08/31/2013 Edition, Published August 1st, 2013
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.]
WASHINGTON STATE
PREVAILING FEDERAL WAGE RATES
General Decision Number: WA130001 11/01/2013 WA1

Superseded General Decision Number: WA20120001

State: Washington

Construction Type: Highway

Counties: Washington Statewide.

HIGHWAY (Excludes D.O.E. Hanford Site in Benton and Franklin Counties)

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* CARP0001-008 06/01/2013

Rates Fringes

Carpenters:

COLUMBIA RIVER AREA - ADAMS, BENTON, COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY, FRANKLIN, GRANT, OKANOGAN (EAST OF THE 120TH MERIDIAN) AND WALLA WALLA COUNTIES

GROUP 1: $30.66 12.87
GROUP 2: $31.56 12.87
GROUP 3: $31.64 12.87
GROUP 4: $31.64 12.87
GROUP 5: $62.58 12.87
GROUP 6: $30.29 12.87
GROUP 7: $31.29 12.87
GROUP 8: $28.54 12.87
GROUP 9: $30.29 12.87

WA130001 Modification 28
Federal Wage Determinations for Highway Construction
SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE, STEVENS AND WHITMAN COUNTIES

GROUP 1: $30.66 12.87
GROUP 2: $31.56 12.87
GROUP 3: $31.64 12.87
GROUP 4: $31.64 12.87
GROUP 5: $70.78 12.87
GROUP 6: $32.64 12.87
GROUP 7: $35.39 12.87
GROUP 8: $34.39 12.87
GROUP 9: $34.39 12.87

CARPENTER & DIVER CLASSIFICATIONS:

GROUP 1: Carpenter
GROUP 2: Millwright, machine erector
GROUP 3: Piledriver - includes driving, pulling, cutting, placing collars, setting, welding, or creosote treated material, on all piling
GROUP 4: Bridge carpenters
GROUP 5: Diver Wet
GROUP 6: Diver Tender, Manifold Operator, ROV Operator
GROUP 7: Diver Standby, Bell/Vehicle or Submersible operator
GROUP 8: Assistant Tender, ROV Tender/Technician
GROUP 9: Manifold Operator-Mixed Gas

ZONE PAY:
ZONE 1 0-40 MILES FREE
ZONE 2 41-65 MILES $2.25/PER HOUR
ZONE 3 66-100 MILES $3.25/PER HOUR
ZONE 4 OVER 100 MILES $4.75/PER HOUR

DISPATCH POINTS:
CARPENTERS/MILLWORKS: PASCO (515 N Neel Street) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS/PILE DRIVER: SPOKANE (127 E. AUGUSTA AVE.) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: WENATCHEE (27 N. CHELAN) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: COEUR D'ALENE (1839 N. GOVERNMENT WAY) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: MOSCOW (302 N. JACKSON) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

WA130001 Modification 28
Federal Wage Determinations for Highway Construction
DEPTH PAY FOR DIVERS BELOW WATER SURFACE:
50-100 feet $2.00 per foot
101-150 feet $3.00 per foot
151-220 feet $4.00 per foot
221 feet and deeper $5.00 per foot

PREMIUM PAY FOR DIVING IN ENCLOSURES WITH NO VERTICAL ASCENT:
0-25 feet Free
26-300 feet $1.00 per Foot

SATURATION DIVING:
The standby rate applies until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. The diver rate shall be paid for all saturation hours.

WORK IN COMBINATION OF CLASSIFICATIONS:
Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

HAZMAT PROJECTS:

Anyone working on a HAZMAT job (task), where HAZMAT certification is required, shall be compensated at a premium, in addition to the classification working in as follows:

LEVEL D + $.25 per hour - This is the lowest level of protection. No respirator is used and skin protection is minimal.

LEVEL C + $.50 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B + $.75 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit".

LEVEL A +$1.00 per hour - This level utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line.
SOUTHWEST WASHINGTON: CLARK, COWLITZ, KLICKITAT, LEWIS (Piledriver only), PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to Willapa Bay to the Pacific Ocean), SKAMANIA AND WAHKIAKUM COUNTIES and INCLUDES THE ENTIRE PENINSULA WEST OF WILLAPA BAY

SEE ZONE DESCRIPTION FOR CITIES BASE POINTS

ZONE 1:

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARPENTERS</td>
<td>$32.04</td>
</tr>
<tr>
<td>DIVERS TENDERS</td>
<td>$36.34</td>
</tr>
<tr>
<td>DIVERS</td>
<td>$77.08</td>
</tr>
<tr>
<td>DRYWALL</td>
<td>$27.56</td>
</tr>
<tr>
<td>MILLWRIGHTS</td>
<td>$32.19</td>
</tr>
<tr>
<td>FILEDRIVERS</td>
<td>$33.04</td>
</tr>
</tbody>
</table>

DEPTH PAY:
50 TO 100 FEET $1.00 PER FOOT OVER 50 FEET
101 TO 150 FEET $1.50 PER FOOT OVER 101 FEET
151 TO 200 FEET $2.00 PER FOOT OVER 151 FEET

Zone Differential (Add up Zone 1 rates):
Zone 2 - $0.85
Zone 3 - 1.25
Zone 4 - 1.70
Zone 5 - 2.00
Zone 6 - 3.00

BASEPOINTS: ASTORIA, LONGVIEW, PORTLAND, THE DALLES, AND VANCOUVER, (NOTE: All dispatches for Washington State Counties: Cowlitz, Wahkiakum and Pacific shall be from Longview Local #1707 and mileage shall be computed from that point.)

ZONE 1: Projects located within 30 miles of the respective city hall of the above mentioned cities
ZONE 2: Projects located more than 30 miles and less than 40 miles of the respective city of the above mentioned cities
ZONE 3: Projects located more than 40 miles and less than 50 miles of the respective city of the above mentioned cities
ZONE 4: Projects located more than 50 miles and less than 60 miles of the respective city of the above mentioned cities.
ZONE 5: Projects located more than 60 miles and less than 70 miles of the respective city of the above mentioned cities
ZONE 6: Projects located more than 70 miles of the respected city of the above mentioned cities

WA130001  Modification 28
Federal Wage Determinations for Highway Construction
Carpenters:

CENTRAL WASHINGTON:
CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITTITAS, OKANOGAN (WEST OF THE 120TH MERIDIAN) AND YAKIMA COUNTIES

Carpenters on Creosote

MATERIAL ...................... $ 25.93 12.60
Carpenters ..................... $ 25.83 12.60
DIVERS TENDER ............... $ 39.15 12.60
DIVERS ......................... $ 87.20 12.60
MILLRIGHT AND MACHINE
Erectors ....................... $ 37.07 12.60
PILE DRIVER, DRIVING,
PULLING, CUTTING, PLACING
COLLARS, SETTING, WELDING
OR CREOSOTE TREATED
MATERIAL, ALL PILING ...... $ 36.22 12.60

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLRIGHTS AND PILEDIVERS)

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Seattle  Olympia  Bellingham
Auburn  Bremerton  Anacortes
Renton  Shelton  Yakima
Aberdeen-Hoquiam  Tacoma  Wenatchee
Ellensburg  Everett  Port Angeles
Centralia  Mount Vernon  Sunnyside
Chelan  Pt. Townsend

Zone Pay:
0 - 25 radius miles  Free
26 - 35 radius miles  $1.00/hour
36 - 45 radius miles  $1.15/hour
46 - 55 radius miles  $1.35/hour
Over 55 radius miles  $1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLRIGHT AND PILEDIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:
0 - 25 radius miles  Free
26 - 45 radius miles  $.70/hour
Over 45 radius miles  $1.50/hour

WA130001  Modification 28
Federal Wage Determinations for Highway Construction
Carpenters:

WESTERN WASHINGTON:
CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS (excludes piledrivers only), MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
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</thead>
<tbody>
<tr>
<td>BRIDGE CARPENTERS</td>
<td>$35.39</td>
</tr>
<tr>
<td>CARPENTERS ON CREOSOTE</td>
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</tr>
<tr>
<td>MATERIAL</td>
<td>$35.49</td>
</tr>
<tr>
<td>CARPENTERS</td>
<td>$35.39</td>
</tr>
<tr>
<td>DIVERS TENDER</td>
<td>$39.15</td>
</tr>
<tr>
<td>DIVERS</td>
<td>$37.20</td>
</tr>
<tr>
<td>MILLWRIGHT AND MACHINE</td>
<td></td>
</tr>
<tr>
<td>ERECTORS</td>
<td>$36.39</td>
</tr>
<tr>
<td>PILEDRIVER, DRIVING,</td>
<td></td>
</tr>
<tr>
<td>PULLING, CUTTING, PLACING</td>
<td></td>
</tr>
<tr>
<td>COLLARS, SETTING, WELDING</td>
<td></td>
</tr>
<tr>
<td>OR CREOSOTE TREATED</td>
<td></td>
</tr>
<tr>
<td>MATERIAL, ALL PILING</td>
<td>$35.59</td>
</tr>
</tbody>
</table>

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIVERS)

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

<table>
<thead>
<tr>
<th>City</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seattle</td>
<td>Olympia</td>
<td>Bellingham</td>
</tr>
<tr>
<td>Auburn</td>
<td>Bremerton</td>
<td>Anacortes</td>
</tr>
<tr>
<td>Renton</td>
<td>Shelton</td>
<td>Yakima</td>
</tr>
<tr>
<td>Aberdeen-Hoquiam</td>
<td>Tacoma</td>
<td>Wenatchee</td>
</tr>
<tr>
<td>Ellensburg</td>
<td>Everett</td>
<td>Port Angeles</td>
</tr>
<tr>
<td>Centralia</td>
<td>Mount Vernon</td>
<td>Sunnyside</td>
</tr>
<tr>
<td>Chelan</td>
<td>Pt. Townsend</td>
<td></td>
</tr>
</tbody>
</table>

Zone Pay:
0 - 25 radius miles Free
26 - 35 radius miles $1.00/hour
36 - 45 radius miles $1.15/hour
46 - 55 radius miles $1.35/hour
Over 55 radius miles $1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:
0 - 25 radius miles Free
26 - 45 radius miles $0.70/hour
Over 45 radius miles $1.50/hour

WA130001 Modification 28
Federal Wage Determinations for Highway Construction
### CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABLE SPLICER</td>
<td>$46.87</td>
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<tr>
<td>ELECTRICIAN</td>
<td>$42.61</td>
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### CLARK, KLICKITAT AND SKAMANIA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>CABLE SPLICER</td>
<td>$41.85</td>
</tr>
<tr>
<td>ELECTRICIAN</td>
<td>$38.05</td>
</tr>
</tbody>
</table>

**HOURLY ZONE PAY:**

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Portland, The Dalles, Hood River, Tillamook, Seaside and Astoria

**Zone Pay:**

- Zone 1: 31-50 miles  $1.50/hour
- Zone 2: 51-70 miles  $3.50/hour
- Zone 3: 71-90 miles  $5.50/hour
- Zone 4: Beyond 90 miles $9.00/hour

*These are not miles driven. Zones are based on Delorme Street Atlas USA 2006 plus.*

### COWLITZ AND WAHKIAKUM COUNTY

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABLE SPLICER</td>
<td>$41.85</td>
</tr>
<tr>
<td>ELECTRICIAN</td>
<td>$38.05</td>
</tr>
</tbody>
</table>

### ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>CABLE SPLICER</td>
<td>$31.98</td>
</tr>
<tr>
<td>ELECTRICIAN</td>
<td>$29.07</td>
</tr>
</tbody>
</table>

WA130001 Modification 28

Federal Wage Determinations for Highway Construction
### GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Splicer: $37.71</td>
<td>22.47</td>
</tr>
<tr>
<td>Electrician: $34.28</td>
<td>22.47</td>
</tr>
</tbody>
</table>

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### ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTIKAS, WALLA WALLA, YAKIMA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Splicer: $38.90</td>
<td>17.35</td>
</tr>
<tr>
<td>Electrician: $37.05</td>
<td>17.29</td>
</tr>
</tbody>
</table>

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### ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Splicer: $42.91</td>
<td>17.39</td>
</tr>
<tr>
<td>Electrician: $39.01</td>
<td>17.39</td>
</tr>
</tbody>
</table>

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### CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>Cable Splicer: $39.50</td>
<td>17.30</td>
</tr>
<tr>
<td>Electrician: $35.91</td>
<td>17.30</td>
</tr>
</tbody>
</table>
ENGI0302-003 06/01/2013

CHelan (West of the 120th Meridian), Clallam, Douglas (West of the 120th Meridian), Grays Harbor, Island, Jefferson, King, Kitsap, Kittitas, Mason, Okanogan (West of the 120th Meridian), San Juan, Skagit, Snohomish, Whatcom and Yakima (West of the 120th Meridian) Counties

Projects: Category A Projects (Excludes Category B Projects, As Shown Below)

Zone 1 (0-25 radius miles):

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>$37.39</td>
<td>16.65</td>
</tr>
<tr>
<td>$37.96</td>
<td>16.65</td>
</tr>
<tr>
<td>$38.52</td>
<td>16.65</td>
</tr>
<tr>
<td>$36.84</td>
<td>16.65</td>
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<tr>
<td>$36.35</td>
<td>16.65</td>
</tr>
<tr>
<td>$35.93</td>
<td>16.65</td>
</tr>
<tr>
<td>$33.57</td>
<td>16.65</td>
</tr>
</tbody>
</table>

Zone Differential (Add to Zone 1 rates):
Zone 2 (26-45 radius miles) - $1.00
Zone 3 (Over 45 radius miles) - $1.30

Basepoints: Aberdeen, Bellingham, Bremerton, Everett, Kent, Mount Vernon, Port Angeles, Port Townsend, Seattle, Shelton, Wenatchee, Yakima

Power Equipment Operators Classifications

GROUP 1AAA - Cranes-over 300 tons, or 300 ft of boom (including jib with attachments)

GROUP 1AA - Cranes 200 to 300 tons, or 250 ft of boom (including jib with attachments); Tower crane over 175 ft in height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons, under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader-overhead 6 yards to, but not including 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9, HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagons; Scrapers-self propelled 45 yards and over; Slipform pavers; Transporters, all truck or track type

WA130001 Modification 28

Federal Wage Determinations for Highway Construction
GROUP 2 - Barrier machine (zipper); Batch Plant Operator-Concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-overhead, bridge type-20 tons through 44 tons; Chipper; Concrete Pump-truck mount with boom attachment; Crusher; Deck Engineer/Deck Winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing Machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Horizontal/directional drill operator; Loaders-overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics-all; Mixers-asphalt plant; Motor patrol graders-finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrade trimmer; Tractors, backhoes-over 75 hp; Transfer material service machine-shuttle buggy, blaw knox-roadtec; Truck crane oiler/driver-100 tons and over; Truck Mount portable conveyor; Yo Yo Pay dozer

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; A-frame crane over 10 tons; Drill oilers-auger type, truck or crane mount; Dozers-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside hoists- (elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loader-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler-asphalt, crusher; Pumps-concrete; Roller, plant mix or multi-lift materials; Saws-concrete; Scrapers-concrete and carry-all; Service engine-equipment; Trenching machines; Truck Crane Oilier/Driver under 100 tons; Tractors, backhoe 75 hp and under

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete finish machine-laser screed; Cranes-A frame-10 tons and under; Elevator and Manlift-permanent or shaft type; Gradechecker, Stakehop; Forklifts under 3000 lbs. with attachments; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger, mechanical; Power plant; Pumps, water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunit equipment operator
Category B Projects: 95% of the basic hourly rate for each group plus full fringe benefits applicable to category A projects shall apply to the following projects. A Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than $1.5 million excluding mechanical, electrical, and utility portions of the contract.

2. Projects of less than $1 million where no building is involved. Surfacing and paving included, but utilities excluded.

3. Marine projects (docks, wharfs, etc.) less than $150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS:

Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing
H-2 Class "C" Suit - Base wage rate plus $.25 per hour.
H-3 Class "B" Suit - Base wage rate plus $.50 per hour.
H-4 Class "A" Suit - Base wage rate plus $.75 per hour.

Zone Differential (Add to Zone 1 rates):
Zone 2 (26-45 radius miles) - $ .70
Zone 3 (Over 45 radius miles) - $1.00

BASEPOINTS: Aberdeen, Bellingham, Bremerton, Everett, Kent, Mount Vernon, Port Angeles, Port Townsend, Seattle, Shelton, Wenatchee, Yakima
POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1AAA - Cranes-over 300 tons, or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes 200 to 300 tons, or 250 ft of boom
(including jib with attachments); Tower crane over 175 ft in height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height
base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons, under 150 ft
of boom (including jib with attachments); Crane-overhead,
bridge type, 45 tons thru 99 tons; Derricks on building work;
Excavator, shovel, backhoes over 3 yards and under 6 yards;
Hard tail end dump articulating off-road equipment 45 yards
and over; Loader-overhead 6 yards to, but not including 8
yards; Mucking machine, mole, tunnel, drill and/or shield;
Quad 9, HD 41, D-10; Remote control operator on rubber tired
earth moving equipment; Rollagon; Scrapers-self propelled 45
yards and over; Slipform pavers; Transporters, all truck or
track type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-
Concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with
attachments; Crane-overhead, bridge type-20 tons through 44
tons; Chipper; Concrete Pump-truck mount with boom
attachment; Crusher; Deck Engineer/Deck Winches (power);
Drilling machine; Excavator, shovel, backhoe-3 yards and
under; Finishing Machine, Bidwell, Gamaco and similar
equipment; Guardrail punch; Horizontal/directional drill
operator; Loaders-overhead under 6 yards; Loaders-plant feed;
Locomotives-all; Mechanics-all; Mixers-asphalt plant; Motor
patrol graders-finishing; Piledriver (other than crane
mount); Roto-mill, roto-grinder; Screedman, spreader, topside
operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar
Green; Scraper-self propelled, hard tail end dump,
articulating off-road equipment-under 45 yards; Subgrade
trimmer; Tractors, backhoes-over 75 hp; Transfer material
service machine-shuttle buggy, blaw knox-roadtec; Truck crane
oiler/driver-100 tons and over; Truck Mount portable
conveyor; Yo Yo Pay dozer
GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments;
A-frame crane over 10 tons; Drill oilers-auger type, truck or
crane mount; Dozers-D-9 and under; Forklift-3000 lbs. and
over with attachments; Horizontal/directional drill locator;
Outside hoists-(elevators and manlifts), air tuggers, strato
tower bucket elevators; Hydralifts/boom trucks over 10 tons;
Loader-elevating type, belt; Motor patrol
grader-nonfinishing; Plant oiler- asphalt, crusher;
Pumps-concrete; Roller, plant mix or multi-lift materials;
Saws-concrete; Scapers-concrete and carry-all; Service
engine-equipment; Trenching machines; Truck Crane
Oiler/Driver under 100 tons; Tractors, backhoe 75 hp and under

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor;
Concrete finish mahine-laser screed; Cranes-A frame-10 tons
and under; Elevator and Manlift-permanent or shaft type;
Gradechecker, Stakehop; Forklifts under 3000 lbs. with
attachments; Hydralifts/boom trucks, 10 tons and under; Oil
distributors, blower distribution and mulch seeding operator;
Pavement breaker; Posthole digger, mechanical; Power plant;
Pumps, water; Rigger and Bellman; Roller-other than plant
mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment
operator

CATEGORY B PROJECTS: 95% OF THE BASIC HOURLY RATE FOR EACH
GROUP PLUS FULL FRINGE BENEFITS APPLICABLE TO CATEGORY A
PROJECTS SHALL APPLY TO THE FOLLOWING PROJECTS. REDUCED
RATES MAY BE PAID ON THE FOLLOWING:

1. Projects involving work on structures such as buildings
and bridges whose total value is less than $1.5
million excluding mechanical, electrical, and utility portions
of the contract.
2. Projects of less than $1 million where no building is
involved. Surfacing and paving including, but
utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than $150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft
classifications subject to working inside a federally designed
hazardous perimeter shall be eligible for compensation in
accordance with the following group schedule relative to the
level of hazardous waste as outlined in the specific hazardous
waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not
outfitted with protective clothing.
H-2 Class "C" Suit - Base wage rate plus $.25 per hour.
H-3 Class "B" Suit - Base wage rate plus $.50 per hour.
H-4 Class "A" Suit - Base wage rate plus $.75 per hour.
LEWIS, PIERCE, PACIFIC (portion lying north of a parallel line extending west from the northern boundary of Wahkaikum County to the sea) AND THURSTON COUNTIES

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power equipment operators:</td>
<td></td>
</tr>
<tr>
<td>GROUP 1A................. $ 37.39</td>
<td>16.65</td>
</tr>
<tr>
<td>GROUP 1AA................. $ 37.96</td>
<td>16.65</td>
</tr>
<tr>
<td>GROUP 1AAA............... $ 38.52</td>
<td>16.65</td>
</tr>
<tr>
<td>GROUP 1................. $ 36.84</td>
<td>16.65</td>
</tr>
<tr>
<td>GROUP 2................. $ 36.35</td>
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<td>GROUP 3................. $ 35.93</td>
<td>16.65</td>
</tr>
<tr>
<td>GROUP 4................. $ 33.57</td>
<td>16.65</td>
</tr>
</tbody>
</table>

Zone Differential (Add to Zone 1 rates):
Zone 2 (26-45 radius miles) = $ .70
Zone 3 (Over 45 radius miles) - $1.00

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom (including jib with attachments)

GROUP 1AA - Cranes- 200 tonsto 300 tons, or 250 ft of boom (including jib with attachments; Tower crane over 175 ft in height, bas to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead, 6 yards to, but not including, 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9 HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrappers- self-propelled 45 yards and over; Slipform pavers; Transporters, all track or truck type
GROUP 2 - Barrier machine (zipper); Batch Plant Operator-concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-Overhead, bridge type, 20 tons through 44 tons; Chipper; Concrete pump-truck mount with boom attachment; Crusher; Deck engineer/deck winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Loaders, overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics-all; Mixers, asphalt plant; Motor patrol graders, finishing; Piledriver (other than crane mount); Roto-mill, rotogrinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self-propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrader trimmer; Tractors, backhoe over 75 hp; Transfer material service machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane oiler/driver-100 tons and over; Truck Mount Portable Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler-asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lift materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breacker; Posthoe digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:
1. Projects involving work on structures such as buildings and bridges whose total value is less than $1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than $1 million where no building is involved. Surfacing and paving included, but utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than $150,000.

WA130001  Modification 28
Federal Wage Determinations for Highway Construction
HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all
craft classifications subject to working inside a federally
designated hazardous perimeter shall be eligible for
compensation in accordance with the following group
schedule relative to the level of hazardous waste as
outlined in the specific hazardous waste project site
safety plan.
H-1 Base wage rate when on a hazardous waste site when not
outfitted with protective clothing
H-2 Class "C" Suit - Base wage rate plus $.25 per hour.
H-3 Class "B" Suit - Base wage rate plus $.50 per hour.
H-4 Class "A" Suit - Base wage rate plus $.75 per hour.
ZONE 1:

<table>
<thead>
<tr>
<th>Power equipment operators:</th>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROUP 1</td>
<td>$25.56</td>
<td>12.85</td>
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<tr>
<td>GROUP 2</td>
<td>$25.88</td>
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<tr>
<td>GROUP 8</td>
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</tbody>
</table>

ZONE DIFFERENTIAL (Add to Zone 1 rate): Zone 2 - $2.00

Zone 1: Within 45 mile radius of Spokane, Pasco, Washington; Lewiston, Idaho

Zone 2: Outside 45 mile radius of Spokane, Pasco, Washington; Lewiston, Idaho

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bit Grinders; Bolt Threading Machine; Compressors (under 2000 CFM, gas, diesel, or electric power); Deck Hand; Fireman & Heater Tender; Hydro-seeder, Mulcher, Nozzleman; Oiler Driver, & Cable Tender, Mucking Machine; Pumpman; Rollers, all types on subgrade, including seal and chip coatings (farm type, Case, John Deere & similar, or Compacting Vibrator), except when pulled by Dozer with operable blade; Welding Machine; Crane Oiler-Driver (CLD required) & Cable Tender, Mucking Machine
GROUP 2: A-frame Truck (single drum); Assistant Refrigeration Plant (under 1000 ton); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Belt Finishing Machine; Blower Operator (cement); Cement Hog; Compressor (2000 CFM or over, 2 or more, gas diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Ditch Witch or similar; Elevator Hoisting Materials; Dope Pots (power agitated); Fork Lift or Lumber Stacker, hydra-lift & similar; Gin Trucks (pipeline); Hoist, single drum; Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable-concrete); Pavement Breaker, Hydra-Hammer & similar; Power Broom; Railroad Ballast Regulation Operator (self-propelled); Railroad Power Tamper Operator (self-propelled); Railroad Tamper Jack Operator (self-propelled); Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross & similar on construction job only); Tractor (Farm type R/T with attachment, except Backhoe); Tugger Operator

GROUP 3: A-frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 ton); Backfillers (Cleveland & similar); Batch Plant & Wet Mix Operator, single unit (concrete); Belt-Crete Conveyors with power pack or similar; Belt Loader (Kocal or similar); Bending Machine; Bob Cat (Skid Steer); Boring Machine (earth); Boring Machine (rock under 8 inch bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginaw or similar); Canal Lining Machine (concrete); Chipper (without crane); Cleaning & Doping Machine (pipeline); Deck Engineer; Elevating Belt-type Loader (Euclid, Barber Green & similar); Elevating Grader-type Loader (Dumor, Adams or similar); Generator Plant Engineers (diesel or electric); Gunite Combination Mixer & Compressor; Locomotive Engineer; Mixemobile; Mucking Machine; Posthole Auger or Punch; Pump (grout or jet); Soil Stabilizer (P & H or similar); Spreader Machine; Dozer/Tractor (up to D-5 or equivalent) and Traxcavator; Traverse Finish Machine; Turnhead Operator

GROUP 4: Concrete Pumps (squeeze-crete, flow-crete, pumpcrete, Whitman & similar); Curb Extruder (asphalt or concrete); Drills (churn, core, calyx or diamond); Equipment Serviceman; Greaser & Oiler; Hoist (2 or more drums or Tower Hoist); Loaders (overhead & front-end, under 4 yds. R/T); Refrigeration Plant Engineer (under 1000 ton); Rubber-tired Skidders (R/T with or without attachments); Surface Heater & Plant Machine; Trenching Machines (under 7 ft. depth capacity); Turnhead (with re-screening); Vacuum Drill (reverse circulation drill under 8 inch bit)
GROUP 5: Backhoe (under 45,000 gw); Backhoe & Hoe Ram (under 3/4 yd.); Carrydeck & Boom Truck (under 25 tons); Cranes (25 tons & under), all attachments including clamshell, dragline; Derricks & Stifflegs (under 65 tons); Drilling Equipment (8 inch bit & over) (Robbins, reverse circulation & similar); Hoe Ram; Piledriving Engineers; Paving (dual drum); Railroad Track Liner Operator (self-propelled); Refrigeration Plant Engineer (1000 tons & over); Signalman (Whirleys, Highline Hammerheads or similar); Grade Checker

GROUP 6: Asphalt Plant Operator; Automatic Subgrader (Ditches & Trimmers) (Autograde, ABC, R.A. Hansen & similar on grade wire); Backhoe (45,000 gw and over to 110,000 gw); Backhoes & Hoe Ram (3/4 yd. to 3 yd.); Batch Plant (over 4 units); Batch & Wet Mix Operator (multiple units, 2 & incl. 4); Blade Operator (motor patrol & attachments); Cable Controller (dispatcher); Compactor (self-propelled with blade); Concrete Pump Boom Truck; Concrete Slip Form Paver; Cranes (over 25 tons, to and including 45 tons), all attachments including clamshell, dragline; Crusher, Grizzle & Screening Plant Operator; Dozer, 834 R/T & similar; Drill Doctor; Loader Operator (front-end, 4 yds. incl. 3 yrs.); Multiple Dozer Units with single blade; Paving Machine (asphalt and concrete); Quad-Track or similar equipment; Rollerman (finishing asphalt pavement); Roto Mill (pavement grinder); Scrapers, all, rubber-tired; Screed Operator; Shovel (under 3 yrs.); Trenching Machines (7 ft. depth & over); Tug Boat Operator Vactor guzzler, super sucker; Lime Batch Tank Operator (REcycle Train); Lime Brain Operator (REcycle Train); Mobile Crusher Operator (REcycle Train)

GROUP 7: Backhoe (over 110,000 gw); Backhoes & Hoe Ram (3 yrs & over); Blade (finish & bluetop) Automatic, CMI, ABC, Finish Athey & Huber & similar when used as automatic; Cableway Operators; Concrete Cleaning/Decontamination machine operator; Cranes (over 45 tons to but not including 85 tons), all attachments including clamshell and dragline; Derricks & Stifflegs (65 tons & over); Elevating Belt (Holland type); Heavy equipment robotics operator; Loader (360 degrees revolving Koehring Scooper or similar); Loaders (overhead & front-end, over 8 yds. to 10 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3 yrs. & over); Whirleys & Hammerheads, ALL; H.D. Mechanic; H.D. Welder; Hydraulic Platform Trailers (Golshofer, Shaurerly and Similar); Ultra High Pressure Waterjet Cutting Tool System Operator (30,000 psi); Vacuum Blasting Machine Operator

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GROUP 8: Cranes (85 tons and over, and all climbing, overhead, rail and tower), all attachments including clamshell, dragline; Loaders (overhead and front-end, 10 yards and over); Helicopter Pilot

BOOM PAY: (All Cranes, Including Tower)
180 ft to 250 ft $ .50 over scale
Over 250 ft $ .80 over scale

NOTE:
In computing the length of the boom on Tower Cranes, they shall be measured from the base of the Tower to the point of the boom.

HAZMAT:
Anyone working on HAZMAT jobs, working with supplied air shall receive $1.00 an hour above classification.

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ENGI0701-002 01/01/2013

CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHKIAKUM COUNTIES

POWER EQUIPMENT OPERATORS: ZONE 1

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power equipment operators:</td>
<td></td>
</tr>
<tr>
<td>(See Footnote A)</td>
<td></td>
</tr>
<tr>
<td>GROUP 1</td>
<td>$ 37.63</td>
</tr>
<tr>
<td>GROUP 1A</td>
<td>$ 39.51</td>
</tr>
<tr>
<td>GROUP 1B</td>
<td>$ 41.39</td>
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<td>GROUP 5</td>
<td>$ 32.88</td>
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<td>GROUP 6</td>
<td>$ 29.84</td>
</tr>
</tbody>
</table>

Zone Differential (add to Zone 1 rates):
Zone 2 - $3.00
Zone 3 - $6.00
For the following metropolitan counties: MULTNOMAH; CLACKAMAS; MARION; WASHINGTON; YAMHILL; AND COLUMBIA; CLARK; AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS INDICATED:

All jobs or projects located in Multnomah, Clackamas and Marion Counties, West of the western boundary of Mt. Hood National Forest and West of Mile Post 30 on Interstate 84 and West of Mile Post 30 on State Highway 26 and West of Mile Post 30 on Highway 22 and all jobs or projects located in Yamhill County, Washington County and Columbia County and all jobs or projects located in Clark & Cowlitz County, Washington except that portion of Cowlitz County in the Mt. St. Helens "Blast Zone" shall receive Zone I pay for all classifications.

All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; BEND; COOS BAY; EUGENE; GRANTS PASS; Klamath Falls; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive Zone I pay for all classifications.

All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.
POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: CONCRETE: Batch Plant and/or Wet Mix Operator, three units or more; CRANE: Helicopter Operator, when used in erecting work; Whirley Operator, 90 ton and over; LATTICE BOOM CRANE: Operator 200 tons through 299 tons, and/or over 200 feet boom; HYDRAULIC CRANE: Hydraulic Crane Operator 90 tons through 199 tons with luffing or tower attachments; FLOATING EQUIPMENT: Floating Crane, 150 ton but less than 250 ton

GROUP 1A: HYDRAULIC CRANE: Hydraulic Operator, 200 tons and over (with luffing or tower attachment); LATTICE BOOM CRANE: Operator, 200 tons through 299 tons, with over 200 feet boom; FLOATING EQUIPMENT: Floating Crane 250 ton and over

GROUP 1B: LATTICE BOOM CRANE: Operator, 300 tons through 399 tons with over 200 feet boom; Operator 400 tons and over; FLOATING EQUIPMENT: Floating Crane 350 ton and over

GROUP 2: ASPHALT: Asphalt Plant Operator (any type); Roto Mill, pavement profiler, operator, 6 foot lateral cut and over; BLAD: Auto Grader or "Trimmer" (Grade Checker required); Blade Operator, Robotic; BULLDOZERS: Bulldozer operator over 120,000 lbs and above; Bulldozer operator, twin engine; Bulldozer Operator, tandem, quadnine, D10, D11, and similar type; Bulldozer Robotic Equipment (any type); CONCRETE: Batch Plant and/or Wet Mix Operator, one and two drum; Automatic Concrete Slip Form Paver Operator; Concrete Canal Line Operator; Concrete Profiler, Diamond Head; CRANE: Cableway Operator, 25 tons and over; HYDRAULIC CRANE: Hydraulic crane operator 90 tons through 199 tons (without luffing or tower attachment); TOWER/WHIRLEY OPERATOR: Tower Crane Operator; Whirley Operator, under 90 tons; LATTICE BOOM CRANE: 90 through 199 tons and/or 150 to 200 feet boom; CRUSHER: Crusher Plant Operator; FLOATING EQUIPMENT: Floating Clamshell, etc. operator, 3 cu. yds. and over; Floating Crane (derrick barge) Operator, 30 tons but less than 150 tons; LOADERS: Loader operator, 120,000 lbs. and above; REMOTE CONTROL: Remote controlled earth-moving equipment; RUBBER-TIRED SCRAPERS: Rubber-tired scraper operator, with tandem scrapers, multi-engine; SHOVEL, DRAGLINE, CLAMSHHELL, SKOOPER OPERATOR: Shovel, Dragline, Clamshell, operator 5 cu. yds and over; TRENCHING MACHINE: Wheel Excavator, under 750 cu. yds. per hour (Grade Oiler required); Canal Trimmer (Grade Oiler required); Wheel Excavator, over 750 cu. yds. per hour; Band Wagon (in conjunction with wheel excavator); UNDERWATER EQUIPMENT: Underwater Equipment Operator, remote or otherwise; HYDRAULIC HOES-EXCAVATOR: Excavator over 130,000 lbs.; HYDRAULIC CRANE: Hydraulic crane operator, 50 tons through 89 tons (with luffing or tower attachment);
GROUP 3: BULLDOZERS: Bulldozer operator, over 70,000 lbs. up to and including 120,000 lbs.; HYDRAULIC CRANE: Hydraulic crane operator, 50 tons through 89 tons (without luffing or tower attachment); LATTICE BOOM CRANES: Lattice Boom Crane-50 through 89 tons (and less than 150 feet boom); FORKLIFT: Rock Hound Operator; HYDRAULIC HOES-EXCAVATOR: excavator over 80,000 lbs. through 130,000 lbs.; LOADERS: Loader operator 60,000 and less than 120,000; RUBBER-TIRED SCRAPERS: Scraper Operator, with tandem scrapers; Self-loading, paddle wheel, auger type, finish and/or 2 or more units; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER OPERATOR: Shovel, Dragline, Clamshell operators 3 cu. yds. but less than 5 cu yds.

GROUP 4: ASPHALT: Screed Operator; Asphalt Paver operator (screener required); BLADE: Blade operator; Blade operator, finish; Blade operator, externally controlled by electronic, mechanical hydraulic means; Blade operator, multi-engine; BULLDOZERS: Bulldozer Operator over 20,000 lbs and more than 100 horse up to 70,000 lbs; Drill Cat Operator; Side-boom Operator; Cable-Plow Operator (any type); CLEARING: Log Skidders; Chippers; Incinerator; Stump Splitter (loader mounted or similar type); Stump Grinder (loader mounted or similar type; Tub Grinder; Land Clearing Machine (Track mounted forestry mowing & grinding machine); Hydro Axe (loader mounted or similar type); COMPACTORS SELF-PROPELLED: Compactor Operator, with blade; Compactor Operator, multi-engine; Compactor Operator, robotic; CONCRETE: Mixer Mobile Operator; Screed Operator; Concrete Cooling Machine Operator; Concrete Paving Road Mixer; Concrete Breaker; Reinforced Tank Banding Machine (K-17 or similar types); Laser Screed; CRANE: Chicago boom and similar types; Lift Slab Machine Operator; Boom type lifting device, 5 ton capacity or less; Hoist Operator, two (2) drum; Hoist Operator, three (3) or more drums; Derrick Operator, under 100 ton; Hoist Operator, stiff leg, guy derrick or similar type, 50 ton and over; Cableway Operator up to twenty (25) ton; Bridge Crane Operator, Locomotive, Gantry, Overhead; Cherry Picker or similar type crane; Carry Deck Operator; Hydraulic Crane Operator, under 50 tons; LATTICE BOOM CRANE OPERATOR: Lattice Boom Crane Operator, under 50 tons; CRUSHER: Generator Operator; Diesel-Electric Engineer; Grizzley Operator; Drill Doctor; Boring Machine Operator; Driller-Percussion, Diamond, Core, Cable, Rotary and similar type; Cat Drill (John Henry); Directional Drill Operator over 20,000 lbs pullback; FLOATING EQUIPMENT: Diesel-electric Engineer; Jack Operator, elevating barges, Barge Operator, self-unloading; Piledriver Operator (not crane type) (Deckhand required); Floating Clamshell, etc. Operator, under 3 cu. yds. (Fireman or Diesel-Electric Engineer required); Floating Crane (derrick barge) Operator, less than 30 tons; GENERATORS: Generator Operator; Diesel-electric Engineer; GUARDRAIL EQUIPMENT: Guardrail Punch Operator (all types); Guardrail Auger Operator (all types); Combination Guardrail machines, i.e., punch auger, etc.; HEATING PLANT: Surface
Heater and Planer Operator; HYDRAULIC HOES EXCAVATOR:
Robotic Hydraulic backhoe operator, track and wheel type up
to and including 20,000 lbs. with any or all attachments;
Excavator Operator over 20,000 lbs through 80,000 lbs.;
LOADERS: Belt Loaders, Kolman and Ko Cal types; Loaders
Operator, front end and overhead, 25,000 lbs and less than
60,000 lbs; Elevating Grader Operator by Tractor operator;
Sierra, Euclid or similar types; PILEDRIVERS: Hammer
Operator; Piledriver Operator (not crane type); PIPELINE,
SEWER WATER: Pipe Cleaning Machine Operator; Pipe Doping
Machine Operator; Pipe Bending Machine Operator; Pipe
Wrapping Machine Operator; Boring Machine Operator; Back
Filling Machine Operator; REMOTE CONTROL: Concrete Cleaning
Decontamination Machine Operator; Ultra High Pressure Water
Jet Cutting Tool System Operator/Mechanic; Vacuum Blasting
Machine Operator/mechanic; REPAIRMEN, HEAVY DUTY: Diesel
Electric Engineer (Plant or Floating; Bolt Threading
Machine operator; Drill Doctor (Bit Grinder); H.D.
Mechanic; Machine Tool Operator; RUBBER-TIRED SCRAPPERS:
Rubber-tired Scraper Operator, single engine, single
scraper; Self-loading, paddle wheel, auger type under 15
cu. yds.; Rubber-tired Scraper Operator, twin engine;
Rubber-tired Scraper Operator, with push-ull attachments;
Self Loading, paddle wheel, auger type 15 cu. yds. and
over, single engine; Water pulls, water wagons; SHOVEL,
DRAGLINE, CLAMSHELL, SKOOPER OPERATOR: Diesel Electric
Engineer; Stationary Drag Scraper Operator; Shovel,
Dragline, Clamschell, Operator under 3 cu yds.; Grade-all
Operator; SURFACE (BASE) MATERIAL: Blade mounted spreaders,
Ulrich and similar types; TRACTOR-RUBBERED TIRED: Tractor
operator, rubber-tired, over 50 hp flywheel; Tractor
operator, with boom attachment; Rubber-tired dozers and
pushers (Michigan, Cat, Hough type); Skip Loader, Drag Box;
TRENCHING MACHINE: Trenching Machine operator, digging
capacity over 3 ft depth; Back filling machine operator;
TUNNEL: Mucking machine operator
GROUP 5: ASPHALT: Extrusion Machine Operator; Roller Operator (any asphalt mix); Asphalt Burner and Reconditioner Operator (any type); Roto-Mill, pavement profiler, ground man; BULLDOZERS: Bulldozer operator, 20,000 lbs. or less or 100 horse or less; COMPRESSORS: Compressor Operator (any power), over 1,250 cu. ft. total capacity; COMPACTORS: Compactor Operator, including vibratory; Wagner Pactor Operator or similar type (without blade); CONCRETE: Combination mixer and Compressor Operator, gunite work; Concrete Batch Plant Quality Control Operator; Beltcrete Operator; Pumpcrete Operator (any type); Pavement Grinder and/or Grooving Machine Operator (riding type); Cement Pump Operator, Fuller-Kenyon and similar; Concrete Pump Operator; Grouting Machine Operator; Concrete mixer operator, single drum, under (5) bag capacity; Cast in place pipe laying machine; maginnis Internal Full slab vibrator operator; Concrete finishing machine operator, Clark, Johnson, Bidwell, Burgess Bridge deck or similar type; Curb Machine Operator, mechanical Berm, Curb and/or Curb and Gutter; Concrete Joint Machine Operator; Concrete Planer Operator; Tower Mobile Operator; Power Jumbo Operator setting slip forms in tunnels; Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Concrete Paving Machine Operator; Concrete Finishing Machine Operator; Concrete Spreader Operator; CRANE: Helicopter Hoist Operator; Hoist Operator, single drum; Elevator Operator; A-frame Truck Operator, Double drum; Boom Truck Operator; HYDRAULIC CRANE OPERATOR: Hydraulic Boom Truck, Pitman; DRILLING: Chuck Drill and Earth Boring Machine Operator; Vacuum Truck; Directional Drill Operator over 20,000 lbs pullback; FLOATING EQUIPMENT: Fireman; FORKLIFT: Fork Lift, over 10 ton and/or robotic; HYDRAULIC HOES EXCAVATORS: Hydraulic Backhoe Operator, wheel type (Ford, John Deere, Case type); Hydraulic Backhoe Operator track type up to and including 20,000 lbs.; LOADERS: Loaders, rubber-tired type, less than 25,000 lbs; Elevating Grader Operator, Tractor Towed requiring Operator or Grader; Elevating loader operator, Athey and similar types; OILERS: Service oiler (Greaser); PIPELINE-SEWER WATER: Hydra hammer or similar types; Pavement Breaker Operator; PUMPS: Pump Operator, more than 5 (any size); Pot Rammer Operator; RAILROAD EQUIPMENT: Locomotive Operator, under 40 tons; Ballast Regulator Operator; Ballast Tamper Multi-Purpose Operator; Track Liner Operator; Tie Spacer Operator; Shuttle Car Operator; Locomotive Operator, 40 tons and over; MATERIAL HAULRS: Cat wagon DJBs Volvo similar types; Conveyored material hauler; SURFACING (BASE) MATERIAL: Rock Spreaders, self-propelled; Pulva-mixer or similar types; Chip Spreading machine operator; Lime spreading operator, construction job siter; SWEEPERS: Sweeper operator (Wayne type) self-propelled construction job site; TRACTOR-RUBBER TIRED: Tractor operator, rubber-tired, 50 hp flywheel and under; Trenching machine operator, maximum digging capacity 3 ft depth; TUNNEL: Dinkey
GROUP 6: ASPHALT: Plant Oiler; Plant Fireman; Pugmill Operator (any type); Truck mounted asphalt spreader, with screed; COMPRESSORS: Compressor Operator (any power), under 1,250 cu. ft. total capacity; CONCRETE: Plant Oiler, Assistant Conveyor Operator; Conveyor Operator; Mixer Box Operator (C.T.B., dry batch, etc.); Cement Hog Operator; Concrete Saw Operator; Concrete Curing Machine Operator (riding type); Wire Mat or Brooming Machine Operator; CRANE: Oiler; Fireman, all equipment; Truck Crane Oiler Driver; A-frame Truck Operator, single drum; Tugger or Coffin Type Hoist Operator; CRUSHER: Crusher Oiler; Crusher Feederman; CRUSHER: Crusher oiler; Crusher feeder; DRILLING: Drill Tender; Auger Oiler; FLOATING EQUIPMENT: Deckhand; Boatman; FORKLIFT: Self-propelled Scaffolding Operator, construction job site (excluding working platform); Fork Lift or Lumber Stacker Operator, construction job site; Ross Carrier Operator, construction job site; Lull Hi-Lift Operator or Similar Type; GUARDRAIL EQUIPMENT: Oiler; Auger Oiler; Oiler, combination guardrail machines; Guardrail Punch Oiler; HEATING PLANT: Temporary Heating Plant Operator; LOADERS: Bobcat, skid steer (less than 1 cu yd.); Bucket Elevator Loader Operator, BarberGreene and similar types; OILERS: Oiler; Guardrail Punch Oiler; Truck Crane Oiler- Driver; Auger Oiler; Grade Oiler, required to check grade; Grade Checker; Rigger; PIPELINE-SEWER WATER: Tar Pot Fireman; Tar Pot Fireman (power agitated); PUMPS: Pump Operator (any power); Hydrostatic Pump Operator; RAILROAD EQUIPMENT: Brakeman; Oiler; Switchman; Motorman; Ballast Jack Tamper Operator; SHOVEL, DREDGE, CLAMSHELL, SKOOPER, ETC. OPERATOR: Oiler, Grade Oiler (required to check grade); Grade Checker; Fireman; SWEeper: Broom operator, self propelled, construction job site; SURFACING (BASE) MATERIAL: Roller Operator, grading of base rock (not asphalt); Tamping Machine operator, mechanical, self-propelled; Hydrographic Seeder Machine Operator; TRENCHING MACHINE: Oiler; Grade Oiler; TUNNEL: Conveyor operator; Air filtration equipment operator
<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRONWORKER</td>
<td>$ 31.60</td>
</tr>
</tbody>
</table>

IRON0029-002 07/01/2013

CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKAUKUM COUNTIES

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<tbody>
<tr>
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IRON0086-002 07/01/2013

YAKIMA, KITTITAS AND CHELAN COUNTIES

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<tbody>
<tr>
<td>IRONWORKER</td>
<td>$ 31.60</td>
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</tbody>
</table>

IRON0086-004 07/01/2013

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

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<thead>
<tr>
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<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRONWORKER</td>
<td>$ 38.14</td>
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ZONE 1:

Laborers:
CALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (NORTH OF STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY WAKHIKAIKUM COUNTY WEST TO THE PACIFIC OCEAN), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

GROUP 1 $ 22.19 9.85
GROUP 2 $ 25.41 9.85
GROUP 3 $ 31.76 9.85
GROUP 4 $ 32.53 9.85
GROUP 5 $ 33.06 9.85

CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITITITAS AND YAKIMA COUNTIES

GROUP 1 $ 18.73 9.85
GROUP 2 $ 21.47 9.85
GROUP 3 $ 23.51 9.85
GROUP 4 $ 24.08 9.85
GROUP 5 $ 24.49 9.85

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT, TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT. TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective city hall
ZONE 2 - More than 25 but less than 45 radius miles from the respective city hall
ZONE 3 - More than 45 radius miles from the respective city hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):
ZONE 2 - $1.00
ZONE 3 - $1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective city hall
ZONE 2 - More than 25 radius miles from the respective city hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):
ZONE 2 - $2.25
LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Pin Graders; Firewatch; Form Setter; Gabion Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clay Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, alartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Hudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and gas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).
LABO0238-004 06/01/2013

PASCO AREA: ADAMS, BENTON, COLUMBIA, DOUGLAS (East of 120th Meridian), FERRY, FRANKLIN, GRANT, OKANOGAN, WALLA WALLA

SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE, STEVENS & WHITMAN COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>LABORER (PASCO)</td>
<td></td>
</tr>
<tr>
<td>GROUP 1</td>
<td>$ 22.00</td>
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<tr>
<td>GROUP 2</td>
<td>$ 24.10</td>
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<tr>
<td>GROUP 3</td>
<td>$ 24.37</td>
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<tr>
<td>GROUP 4</td>
<td>$ 24.64</td>
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<tr>
<td>GROUP 5</td>
<td>$ 24.92</td>
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LABORER (SPOKANE)

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<th>Fringes</th>
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<tbody>
<tr>
<td>GROUP 1</td>
<td>$ 21.70</td>
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<tr>
<td>GROUP 2</td>
<td>$ 23.80</td>
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<tr>
<td>GROUP 3</td>
<td>$ 24.07</td>
</tr>
<tr>
<td>GROUP 4</td>
<td>$ 24.34</td>
</tr>
<tr>
<td>GROUP 5</td>
<td>$ 24.62</td>
</tr>
</tbody>
</table>

Zone Differential (Add to Zone 1 rate): $2.00

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.
Zone 2: 45 radius miles and over from the main post office.
LABORERS CLASSIFICATIONS

GROUP 1: Flagman; Landscape Laborer; Scaleman; Traffic Control Maintenance Laborer (to include erection and maintenance of barricades, signs and relief of flagperson); Window Washer/Cleaner (detail cleanup, such as, but not limited to cleaning floors, ceilings, walls, windows, etc. prior to final acceptance by the owner)

GROUP 2: Asbestos Abatement Worker; Brush Hog Feeder; Carpenter Tender; Cement Handler; Clean-up Laborer; Concrete Crewman (to include stripping of forms, hand operating jacks on slip form construction, application of concrete curing compounds, pumpcrete machine, signaling, handling the nozzle of squeezecrete or similar machine, 6 inches and smaller); Confined Space Attendant; Concrete Signalman; Crusher Feeder; Demolition (to include clean-up, burning, loading, wrecking and salvage of all material); Dumpman; Fence Erector; Firewatch; Form Cleaning Machine Feeder, Stacker; General Laborer; Grout Machine Header Tender; Guard Rail (to include guard rails, guide and reference posts, sign posts, and right-of-way markers); Hazardous Waste Worker, Level D (no respirator is used and skin protection is minimal); Miner, Class "A" (to include all bull gang, concrete crewman, dumpman and pumpcrete crewman, including distributing pipe, assembly & dismantle, and nipper); Nipper; Riprap Man; Sandblast Tailhooseman; Scaffold Erector (wood or steel); Stake Jumper; Structural Mover (to include separating foundation, preparation, cribbing, shoring, jacking and unloading of structures); Tailhooseman (water nozzle); Timber Bucker and Faller (by hand); Track Laborer (RR); Truck Loader; Well-Point Man; All Other Work Classifications Not Specially Listed Shall Be Classified As General Laborer

GROUP 3: Asphalt Roller, walking; Cement Finisher Tender; Concrete Saw, walking; Demolition Torch; Dope Pot Firemen, non-mechanical; Driller Tender (when required to move and position machine); Form Setter, Paving; Grade Checker using level; Hazardous Waste Worker, Level C (uses a chemical "splash suit" and air purifying respirator); Jackhammer Operator; Miner, Class "B" (to include brakeman, finisher, vibrator, form setter); Nozzleman (to include squeeze and flo-crete nozzle); Nozzleman, water, air or steam; Pavement Breaker (under 90 lbs.); Pipelayer, corrugated metal culvert; Pipelayer, multi-plate; Pot Tender; Power Buggy Operator; Power Tool Operator, gas, electric, pneumatic; Railroad Equipment, power driven, except dual mobile power spiker or puller; Railroad Power Spiker or Puller, dual mobile; Rodder and Spreader; Tamper (to include operation of Barco, Essex and similar tampers); Trencher, Shawnee; Tugger Operator; Wagon Drills; Water Pipe Liner; Wheelbarrow (power driven)
GROUP 4:  Air and Hydraulic Track Drill; Asphalt Raker; Brush Machine (to include horizontal construction joint cleanup brush machine, power propelled); Caisson Worker, free air; Chain Saw Operator and Faller; Concrete Stack (to include laborers when laborers working on free standing concrete stacks for smoke or fume control above 40 feet high); Gunite (to include operation of machine and nozzle); Hazardous Waste Worker, Level B (uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Laser Beam Operator (to include grade checker and elevation control); Miner, Class C (to include miner, nozzleman for concrete, laser beam operator and rigger on tunnels); Monitor Operator (air track or similar mounting); Mortar Mixer; Nozzleman (to include jet blasting nozzleman, over 1,200 lbs., jet blast machine power propelled, sandblast nozzle); Pavement Breaker (90 lbs. and over); Pipelayer (to include working topman, caulker, collarman, jointer, mortarman, rigger, jacker, shorer, valve or meter installer); Pipewrappor; Plasterer Tender; Vibrators (all)

GROUP 5 - Drills with Dual Masts; Hazardous Waste Worker, Level A (utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line); Miner Class "D", (to include raise and shaft miner, laser beam operator on raises and shafts)

GROUP 6 - Powderman

LAB00238-006 06/01/2013

COUNTRIES EAST OF THE 120TH MERIDIAN: ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA, WHITMAN

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hod Carrier</td>
<td>$24.10</td>
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</tbody>
</table>

LAB00335-001 06/01/2013

CLARK, COWLITZ, Klickitat, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHKIAKUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHKIAKUM COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
</table>

Laborers:

ZONE 1:

GROUP 1: $28.65  10.05
GROUP 2: $29.25  10.05
GROUP 3: $29.69  10.05
GROUP 4: $30.07  10.05
GROUP 5: $26.15  10.05
GROUP 6: $23.73  10.05
GROUP 7: $20.53  10.05

WA130001  Modification 28
Federal Wage Determinations for Highway Construction
Zone Differential (Add to Zone 1 rates):
Zone 2 $ 0.65
Zone 3 - 1.15
Zone 4 - 1.70
Zone 5 - 2.75

BASE POINTS: GOLDENDALE, LONGVIEW, AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city all.
ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.
ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.
ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.
ZONE 5: More than 80 miles from the respective city hall.

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Plant Laborers; Asphalt Spreaders; Batch Weighman; Broomers; Brush Burners and Cutters; Car and Truck Loaders; Carpenter Tender; Change-House Man or Dry Shack Man; Choker Setter; Clean-up Laborers; Curing, Concrete; Demolition, Wrecking and Moving Laborers; Dumpers, road oiling crew; Dumpmen (for grading crew); Elevator Feeders; Median Rail Reference Post, Guide Post, Right of Way Marker; Fine Graders; Fire Watch; Form Strippers (not swinging stages); General Laborers; Hazardous Waste Worker; Leverman or Aggregate Spreader (Flaherty and similar types); Loading Spotters; Material Yard Man (including electrical); Pittsburgh Chipper Operator or Similar Types; Railroad Track Laborers; Ribbon Setters (including steel forms); Rip Rap Man (hand placed); Road Pump Tender; Sewer Labor; Signalman; Skipman; Slopers; Spraymen; Stake Chaser; Stockpiler; Tie Back Shoring; Timber Falier and Bucker (hand labor); Toolroom Man (at job site); Tunnel Bollgang (above ground); Weight-Man- Crusher (aggregate when used)

GROUP 2: Applicator (including pot power tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Brush Cutters (power saw); Burners; Choker Splicer; Clary Power Spreader and similar types; Clean- up Nozzleman-Green Cutter (concrete, rock, etc.); Concrete Power Buggyman; Concrete Laborer; Crusher Feeder; Demolition and Wrecking Charred Materials; Gunite Nozzleman Tender; Gunite or Sand Blasting Pot Tender; Handlers or Mixers of all Materials of an irritating nature (including cement and lime); Tool Operators (includes but not limited to: Dry Pack Machine; Jackhammer; Chipping Guns; Paving Breakers); Pipe Doping and Wrapping; Post Hole Digger, air, gas or electric; Vibrating Screed; Tampers; Sand Blasting (Wet); Stake-Setter; Tunnel-Muckers, Brakemen, Concrete Crew, Bollgang (underground)
GROUP 3: Asbestos Removal; Bit Grinder; Drill Doctor; Drill Operators, air tracks, cat drills, wagon drills, rubber-mounted drills, and other similar types including at crusher plants; Gunite Nozzelman; High Scalers, Strippers and Drillers (covers work in swinging stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping); Manhole Builder; Powdermen; Concrete Saw Operator; Pwdermen; Power Saw Operators (Bucking and Falling); Pumpcrete Nozzlemen; Sand Blasting (Dry); Sewer Timberman; Track Liners, Anchor Machines, Ballast Regulators, Multiple Tamperers, Power Jacks, Tugger Operator; Tunnel-Chuck Tenders, Nippers and Timbermen; Vibrator; Water Blaster

GROUP 4: Asphalt Raker; Concrete Saw Operator (walls); Concrete Nozzelman; Grade Checker; Pipelayer; Laser Beam (pipelaying)-applicable when employee assigned to move, set up, align; Laser Beam; Tunnel Miners; Motorman-Dinky Locomotive-Tunnel; Powderman-Tunnel; Shield Operator-Tunnel

GROUP 5: Traffic Flaggers

GROUP 6: Fence Builders

GROUP 7: Landscaping or Planting Laborers

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LAB00335-019 09/01/2013

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<tr>
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PAIN0005-002 07/01/2013

STATEWIDE EXCEPT CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHKIAKUM COUNTIES

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<tr>
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<td></td>
<td></td>
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<tr>
<td>STRIPERS</td>
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<td>14.33</td>
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PAIN0005-004 03/01/2009

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

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<tbody>
<tr>
<td>PAINTER</td>
<td>$ 20.82</td>
<td>7.44</td>
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WA130001 Modification 28
Federal Wage Determinations for Highway Construction
ADAMS, ASOTIN; BENTON AND FRANKLIN (EXCEPT HANFORD SITE); CHELAN, COLUMBIA, DOUGLAS, FERRY, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>Application of Cold Tar Product, Epoxies, Polyurethane, Acids, Radiation Resistant Material, Water and Sandblasting</td>
<td>$26.79</td>
</tr>
<tr>
<td>Over 30' Swing Stage Work</td>
<td>$22.20</td>
</tr>
<tr>
<td>Brush, Roller, Striping, Steam-cleaning and Spray</td>
<td>$21.69</td>
</tr>
<tr>
<td>Lead Abatement, Asbestos Abatement</td>
<td>$21.50</td>
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</table>

*$.70 shall be paid over and above the basic wage rates listed for work on swing stages and high work of over 30 feet.

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CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKIAKUM COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>Painters: Brush &amp; Roller</td>
<td>$21.01</td>
</tr>
<tr>
<td>High work - All work 60 ft. or higher</td>
<td>$21.61</td>
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<tr>
<td>Spray and Sandblasting</td>
<td>$21.76</td>
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CLARK, COWLITZ, KLICKITAT, SKAMANIA and WAHKIAKUM COUNTIES

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<th>Fringes</th>
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<tbody>
<tr>
<td>Painters: HIGHWAY &amp; PARKING LOT STRIPER</td>
<td>$33.41</td>
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PLAS0072-004 06/01/2013

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND ORILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN, AND YAKIMA COUNTIES

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<tr>
<td>CEMENT MASON/CONCRETE FINISHER</td>
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<tr>
<td>ZONE 1</td>
<td>$ 26.01</td>
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Zone Differential (Add to Zone 1 rate): Zone 2 - $2.00

BASE POINTS: Spokane, Pasco, Lewiston; Wenatchee
Zone 1: 0 - 45 radius miles from the main post office
Zone 2: Over 45 radius miles from the main post office

PLAS0528-001 06/01/2013

CLALLAM, COWLITZ, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC, FIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON, WAHKIAKUM AND WHATCOM COUNTIES

<table>
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<td>Cement Masons:</td>
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<td>CEMENT MASON</td>
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<tr>
<td>COMPOSITION, TROWEL, MACHINE, GRINDER, POWER TOOLS, GUNNITE NOZZLE</td>
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<tr>
<td>TROWLING MACHINE OPERATOR ON COMPOSITION</td>
<td>$ 37.13</td>
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PLAS0555-002 06/01/2012

CLARK, KLICKITAT AND SKAMANIA COUNTIES

ZONE 1:

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<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>Cement Masons:</td>
<td></td>
</tr>
<tr>
<td>CEMENT MASONS DOING BOTH COMPOSITION/POWER MACHINERY AND SUSPENDED/HANGING SCAFFOLD</td>
<td>$ 30.58</td>
</tr>
<tr>
<td>CEMENT MASONS ON SUSPENDED, SWINGING AND/OR HANGING SCAFFOLD</td>
<td>$ 30.58</td>
</tr>
<tr>
<td>CEMENT MASONS</td>
<td>$ 29.98</td>
</tr>
<tr>
<td>COMPOSITION WORKERS AND POWER MACHINERY OPERATORS</td>
<td>$ 31.18</td>
</tr>
</tbody>
</table>

WA130001 Modification 28
Federal Wage Determinations for Highway Construction
Zone Differential (Add To Zone 1 Rates):
Zone 2 - $0.65
Zone 3 - 1.15
Zone 4 - 1.70
Zone 5 - 3.00

BASE POINTS: BEND, CORVALLIS, EUGENE, MEDFORD, PORTLAND, SALEM, THE DALLES, VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall.
ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.
ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.
ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.
ZONE 5: More than 80 miles from the respective city hall.

---------------------------------------------
TEAM0037-002 06/01/2013

CLARK, COWLITZ, Klickitat, PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), SKAMANIA, AND WAH KIAKUM COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 1</td>
<td></td>
</tr>
<tr>
<td>GROUP 1</td>
<td>$26.90</td>
</tr>
<tr>
<td>GROUP 2</td>
<td>$27.02</td>
</tr>
<tr>
<td>GROUP 3</td>
<td>$27.15</td>
</tr>
<tr>
<td>GROUP 4</td>
<td>$27.41</td>
</tr>
<tr>
<td>GROUP 5</td>
<td>$27.63</td>
</tr>
<tr>
<td>GROUP 6</td>
<td>$27.79</td>
</tr>
<tr>
<td>GROUP 7</td>
<td>$27.99</td>
</tr>
</tbody>
</table>

Zone Differential (Add to Zone 1 Rates):
Zone 2 - $0.65
Zone 3 - 1.15
Zone 4 - 1.70
Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall.
ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.
ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.
ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.
ZONE 5: More than 80 miles from the respective city hall.
TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: A Frame or Hydra lift truck w/load bearing surface; Articulated Dump Truck; Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Concrete Pump Truck; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: up to and including 10 cu. yds.; Lift Jitneys, Fork Lifts (all sizes in loading, unloading and transporting material on job site); Loader and/or Leverman on Concrete Dry Batch Plant (manually operated); Pilot Car; Pickup Truck; Solo Flat Bed and misc. Body Trucks, 0-10 tons; Truck Tender; Truck Mechanic Tender; Water Wagons (rated capacity) up to 3,000 gallons; Transit Mix and Wet or Dry Mix - 5 cu. yds. and under; Lubrication Man, Fuel Truck Driver, Tireman, Wash Rack, Steam Cleaner or combinations; Team Driver; Slurry Truck Driver or Leverman; Tireman

GROUP 2: Boom Truck/Hydra-lift or Retracting Crane; Challenger; Dumpsterers or similar equipment all sizes; Dump Trucks/Articulated Dumps 6 cu to 10 cu.; Flaherty Spreader Driver or Leverman; Lowbed Equipment, Flat Bed Semi-trailer or doubles transporting equipment or wet or dry materials; Lumber Carrier, Driver-Straddle Carrier (used in loading, unloading and transporting of materials on job site); Oil Distributor Driver or Leverman; Transit mix and wet or dry mix truck: over 5 cu. yds. and including 7 cu. yds.; Vacuum Trucks; Water truck/Wagons (rated capacity) over 3,000 to 5,000 gallons

GROUP 3: Ammonia Nitrate Distributor Driver; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 10 cu. yds. and including 30 cu. yds. includes Articulated Dump Trucks; Self-Propelled Street Sweeper; Transit mix and wet or dry mix truck: over 7 cu yds. and including 11 cu yds.; Truck Mechanic-Welder-Body Repairman; Utility and Clean-up Truck; Water Wagons (rated capacity) over 5,000 to 10,000 gallons

GROUP 4: Asphalt Burner; Dump Trucks, side, end and bottom cumps, including Semi-Trucks and Trains or combinations thereof: over 30 cu. yds. and including 50 cu. yds. includes Articulated Dump Trucks; Fire Guard; Transit Mix and Wet or Dry Mix Trucks, over 11 cu. yds. and including 15 cu. yds.; Water Wagon (rated capacity) over 10,000 gallons to 15,000 gallons

GROUP 5: Composite Crewman; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 50 cu. yds. and including 60 cu. yds. includes Articulated Dump Trucks

GROUP 6: Bulk Cement Spreader w/o Auger; Dry Pre-Batch concrete Mix Trucks; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains of combinations thereof: over 60 cu. yds. and including 80 cu. yds., and includes Articulated Dump Trucks; Skid Truck

WA130001 Modification 28
Federal Wage Determinations for Highway Construction
GROUP 7: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 80 cu. yds. and including 100 cu. yds., includes Articulated Dump Trucks; Industrial Lift Truck (mechanical tailgate)

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TEAM174-001 06/29/2012

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZONE A:</td>
<td></td>
</tr>
<tr>
<td>GROUP 1: ......................... $ 31.68</td>
<td>16.23</td>
</tr>
<tr>
<td>GROUP 2: ......................... $ 30.84</td>
<td>16.23</td>
</tr>
<tr>
<td>GROUP 3: ......................... $ 28.03</td>
<td>16.23</td>
</tr>
<tr>
<td>GROUP 4: ......................... $ 23.06</td>
<td>16.23</td>
</tr>
<tr>
<td>GROUP 5: ......................... $ 31.23</td>
<td>16.23</td>
</tr>
</tbody>
</table>

ZONE B (25-45 miles from center of listed cities*): Add $.70 per hour to Zone A rates.
ZONE C (over 45 miles from center of listed cities*): Add $1.00 per hour to Zone A rates.

*Zone pay will be calculated from the city center of the following listed cities:

| BELLINGHAM | CENTRALIA | RAYMOND | OLYMPIA |
| EVERSSTT | SHELTON | ANACORTES | BELLEVUE |
| SEATTLE | PORT ANGELES | MT. VERNON | KENT |
| TACOMA | PORT TOWNSEND | ABERDEEN | BREMERTON |

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - "A-frame or Hydralift" trucks and Boom trucks or similar equipment when "A" frame or "Hydralift" and Boom truck or similar equipment is used; Buggymobile; Bulk Cement Tanker; Dumpsters and similar equipment, Tournorockers, Tournowagon, Tournotrailer, Cat DW series, Terra Cobra, Le Tourneau, Westinghouse, Athye Wagon, Euclid Two and Four-Wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump Trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with 16 yards to 30 yards capacity: Over 30 yards $.15 per hour additional for each 10 yard increment; Explosive Truck (field mix) and similar equipment; Hyster Operators (handling bulk loose aggregates); Lowbed and Heavy Duty Trailer; Road Oil Distributor Driver; Spreader, Flaherty Transit mix used exclusively in heavy construction; Water Wagon and Tank Truck-3,000 gallons and over capacity

WA130001 Modification 28
Federal Wage Determinations for Highway Construction
GROUP 2 - Bulllifts, or similar equipment used in loading or unloading trucks, transporting materials on job site; Dumpsters, and similar equipment, Tournorockers, Tournowagon, Turnotrailers, Cat. D.W. Series, Terra Cobra, Le Tourneau, Westinghouse, Athye wagon, Euclid two and four-wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with less than 16 yards capacity; Flatbed (Dual Rear Axle); Grease Truck, Fuel Truck, Greaser, Battery Service Man and/or Tire Service Man; Leverman and loader at bunkers and batch plants; Oil tank transport; Scissor truck; Slurry Truck; Sno-Go and similar equipment; Swampers; Straddler Carrier (Ross, Hyster) and similar equipment; Team Driver; Tractor (small, rubber-tired) (when used within Teamster jurisdiction); Vacuum truck; Water Wagon and Tank trucks-less than 3,000 gallons capacity; Winch Truck; Wrecker, Tow truck and similar equipment

GROUP 3 - Flatbed (single rear axle); Pickup Sweeper; Pickup Truck. (Adjust Group 3 upward by $2.00 per hour for onsite work only)

GROUP 4 - Escort or Pilot Car

GROUP 5 - Mechanic

HAZMAT PROJECTS

Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:
LEVEL C: +$.25 per hour - This level uses an air purifying respirator or additional protective clothing.
LEVEL B: +$.50 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit."
LEVEL A: +$.75 per hour - This level utilizes a fully-encapsulated suit with a self-contained breathing apparatus or a supplied air line.
ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT KITTTITAS, LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA COUNTIES

Rates Fringes

Truck drivers: (AREA 1:
SPOKANE ZONE CENTER: Adams, Chelan, Douglas, Ferry, Grant, Kittitas, Lincoln,
Okanogan, Pen Oreille, Spokane, Stevens, and Whitman Counties

AREA 1: LEWISTON ZONE CENTER:
Asotin, Columbia, and Garfield Counties

AREA 2: PASCO ZONE CENTER:
Benton, Franklin, Walla Walla and Yakima Counties)

AREA 1:
GROUP 1......................$ 20.17  14.44
GROUP 2......................$ 22.44  14.44
GROUP 3......................$ 22.94  14.44
GROUP 4......................$ 23.27  14.44
GROUP 5......................$ 23.38  14.44
GROUP 6......................$ 23.55  14.44
GROUP 7......................$ 24.08  14.44
GROUP 8......................$ 24.44  14.44

AREA 2
GROUP 1......................$ 21.77  14.44
GROUP 2......................$ 24.31  14.44
GROUP 3......................$ 24.42  14.44
GROUP 4......................$ 24.75  14.44
GROUP 5......................$ 24.86  14.44
GROUP 6......................$ 25.02  14.44
GROUP 7......................$ 25.56  14.44
GROUP 8......................$ 25.88  14.44

Zone Differential (Add to Zone 1 rate: Zone 2 + $2.00)

BASE POINTS: Spokane, Pasco, Lewiston
Zone 1: 0-45 radius miles from the main post office.
Zone 2: Outside 45 radius miles from the main post office

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Escort Driver or Pilot Car; Employee Haul; Power Boat Hauling Employees or Material

GROUP 2: Fish Truck; Flat Bed Truck; Fork Lift (3000 lbs. and under); Leverperson (loading trucks at bunkers); Trailer Mounted Hydro Seeder and Mulcher; Seeder & Mulcher; Stationary Fuel Operator; Tractor (small, rubber-tired, pulling trailer or similar equipment)

WA1300001 Modification 28
Federal Wage Determinations for Highway Construction
GROUP 3: Auto Crane (2000 lbs. capacity); Buggy Mobile & Similar; Bulk Cement Tanks & Spreader; Dumpster (6 yds. & under); Flat Bed Truck with Hydraulic System; Fork Lift (3001-16,000 lbs.); Fuel Truck Driver, Steamcleaner & Washer; Power Operated Sweeper; Rubber-tired Tunnel Jumbo; Scissors Truck; Slurry Truck Driver; Straddle Carrier (Ross, Hyster, & similar); Tireperson; Transit Mixers & Truck Hauling Concrete (3 yd. to & including 6 yds.); Trucks, side, end, bottom & articulated end dump (3 yards to and including 6 yds.); Warehouseperson (to include shipping & receiving); Wrecker & Tow Truck

GROUP 4: A-Frame; Burner, Cutter, & Welder; Service Greaser; Trucks, side, end, bottom & articulated end dump (over 6 yards to and including 12 yds.); Truck Mounted Hydro Seeder; Warehouseperson; Water Tank truck (0-8,000 gallons)

GROUP 5: Dumpster (over 6 yds.); Lowboy (50 tons & under); Self-loading Roll Off; Semi-Truck & Trailer; Tractor with Steer Trailer; Transit Mixers and Trucks Hauling Concrete (over 6 yds. to and including 10 yds.); Trucks, side, end, bottom and end dump (over 12 yds. to & including 20 yds.); Truck-Mounted Crane (with load bearing surface either mounted or pulled, up to 14 ton); Vacuum Truck (super sucker, guzzler, etc.)

GROUP 6: Flaherty Spreader Box Driver; Flowboys; Fork Lift (over 16,000 lbs.); Dumps (Semi-end); Mechanic (Field); Semi-end Dumps; Transfer Truck & Trailer; Transit Mixers & Trucks Hauling Concrete (over 10 yds. to & including 20 yds.); Trucks, side, end, bottom and articulated end dump (over 20 yds. to & including 40 yds.); Truck and Pup; Tournarocker, DWS & similar with 2 or more 4 wheel-power tractor with trailer, gallonage or yardage scale, whichever is greater Water Tank Truck (8,001-14,000 gallons); Lowboy (over 50 tons)

GROUP 7: Oil Distributor Driver; Stringer Truck (cable operated trailer); Transit Mixers & Trucks Hauling Concrete (over 20 yds.); Truck, side, end, bottom end dump (over 40 yds. to & including 100 yds.); Truck Mounted Crane (with load bearing surface either mounted or pulled (16 through 25 tons);

GROUP 8: Prime Movers and Stinger Truck; Trucks, side, end, bottom and articulated end dump (over 100 yds.); Helicopter Pilot Hauling Employees or Materials

Footnote A - Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C-D: $.50 PER HOUR (This is the lowest level of protection. This level may use an air purifying respirator or additional protective clothing.)
LEVEL A-B: - $1.00 PER HOUR (Uses supplied air is conjunction with a chemical splash suit or fully encapsulated suit with a self-contained breathing apparatus.

Employees shall be paid Hazmat pay in increments of four (4) and eight (8) hours.
NOTE:
Trucks Pulling Equipment Trailers: shall receive $.15/hour over applicable truck rate

----------------------------------------------

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

===============================================

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

-----------------------------------------------

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters, PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

WA130001  Modification 28
Federal Wage Determinations for Highway Construction
Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

WA130001 Modification 28
Federal Wage Determinations for Highway Construction
The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

   Administrative Review Board  
   U.S. Department of Labor  
   200 Constitution Avenue, N.W.  
   Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

-----------------------------------------------

END OF GENERAL DECISION
APPENDIX C
STANDARD PLANS
NOTES

1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.

2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification S-04.3.

3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'.

4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.

5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.

6. The opening shall be measured at the top of the Precast Base Section.

7. All pickup holes shall be grouted full after the basin has been placed.
CONCRETE AND DUCTILE IRON PIPE

PIPE ZONE BACKFILL (SEE NOTE 1)

GRAVEL BACKFILL FOR PIPE ZONE BEDDING (SEE NOTE 2)

FOUNDATION LEVEL

85% O.D.

10% O.D.

TRENCH WIDTH

(SEE NOTE 3)

PIPE ZONE

NOTES
1. See Standard Specifications Section 7-08.3(3) for Pipe Zone Backfill.
2. See Standard Specifications Section 9-63.12(3) for Gravel Backfill for Pipe Zone Bedding.
4. For sanitary sewer installation, concrete pipe shall be bedded to spring line.

TRENCH WIDTH

(SEE NOTE 3)

PICTURE

GRAVEL BACKFILL FOR PIPE ZONE BEDDING (SEE NOTE 2)

FOUNDATION LEVEL

PIPE ZONE BACKFILL (SEE NOTE 1)

PIPE ARCHES

TRENCH WIDTH

(SEE NOTE 3)

10% O.D.

85% O.D.

PIPE ZONE

THERMOPLASTIC PIPE

PIPE ZONE BACKFILL (SEE NOTE 1)

GRAVEL BACKFILL FOR PIPE ZONE BEDDING (SEE NOTE 2)

FOUNDATION LEVEL

METAL PIPE

CLEARANCE BETWEEN PIPES FOR MULTIPLE INSTALLATIONS

<table>
<thead>
<tr>
<th>PIPE</th>
<th>SIZE</th>
<th>MINIMUM DISTANCE BETWEEN BARRELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCULAR PIPE</td>
<td>12&quot; to 24&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>(DIAMETER)</td>
<td>36&quot; to 96&quot;</td>
<td>DIAM. /2</td>
</tr>
<tr>
<td></td>
<td>102&quot; to 180&quot;</td>
<td>48&quot;</td>
</tr>
<tr>
<td>PIPE ARCH (SPAN)</td>
<td>18&quot; to 36&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>METAL ONLY</td>
<td>43&quot; to 142&quot;</td>
<td>SPAN /3</td>
</tr>
<tr>
<td></td>
<td>146&quot; to 200&quot;</td>
<td>48&quot;</td>
</tr>
</tbody>
</table>
DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER

CEMENT CONCRETE TRAFFIC CURB AND GUTTER

DEPRESSED CURB SECTION AT CURB RAMPS AND DRIVEWAY ENTRANCES

NOTE

CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES

CEMENT CONCRETE PEDESTRIAN CURB

DUAL-FACED CEMENT CONCRETE TRAFFIC CURB

CEMENT CONCRETE TRAFFIC CURB

MOUNTABLE CEMENT CONCRETE TRAFFIC CURB
1. Four feet of the sidewalk width shall be the minimum pedestrian accessible route free of vertical and horizontal obstructions. Gratings, Access Covers, Junction Boxes, Cable Vaults, Pull Boxes and other appurtenances within the sidewalk must have slip resistant surfaces, be flush with surface, and match grade of the sidewalk.
1. Provide a separate Curb Ramp for each marked or unmarked crosswalk. Curb Ramp location shall be placed within the width of the associated crosswalk, or as shown in the Contract Plans.

2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.

3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances in front of the Curb Ramp or on any part of the Curb Ramp or Landing.


6. The Bid item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalk.

7. The Curb Ramp maximum running slope shall not require the ramp length to exceed 15 feet to avoid chancing the slope indefinitely when connecting to steep grades. When applying the 15-foot max. length, the running slope of the curb ramp shall be as flat as feasible.


9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.
NOTES
1. Notch is only required with multiple post installations.
2. 6x10, 8x10, and 8x12 Timber Sign Posts cannot be made breakaway and do not have holes or notches. These posts shall not be installed within the Design Clear Zone. They may be installed behind traffic barrier.
3. Signs with a width less than 12 feet and supported on three 6x6 or 8x8 posts shall not be installed within the Design Clear Zone. They may be installed behind traffic barrier.
4. Signs with a width less than 17 feet and supported on four 6x6 or 8x8 posts shall not be installed within the Design Clear Zone. They may be installed behind traffic barrier.
6. For 6x6 posts and larger, 7 feet minimum spacing is required between posts.

<table>
<thead>
<tr>
<th>POST INSTALLATION TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST SIZE</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>6x6</td>
</tr>
<tr>
<td>6x6</td>
</tr>
<tr>
<td>8x8</td>
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<td>8x8</td>
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<tr>
<td>8x10</td>
</tr>
<tr>
<td>8x10</td>
</tr>
<tr>
<td>8x12</td>
</tr>
</tbody>
</table>

TIMBER SIGN SUPPORT
STANDARD PLAN G-22.10-01
Sheet 1 of 3 sheets
APPROVED FOR PUBLICATION
Pasco Bakouch III 07-03-08
IN HOUSE DRAFT
WSDOT Department of Transportation
Washington State Department of Transportation
NOTES

1. For sign installation details, see Std. Plan C- series.
2. In rural areas, the "V" Height can be a minimum of 7 feet for primary signs and 6 feet for the supplemental plaque for greater visibility, as directed by the engineer.
3. The "V" height for signs, with an area of more than 50 square feet and two or more sign supports, is 7 feet in both rural and urban areas.

<table>
<thead>
<tr>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO BOTTOM OF SIGN (NO SUPPLEMENTAL PLAQUE)</td>
</tr>
<tr>
<td>RURAL</td>
</tr>
<tr>
<td>URBAN</td>
</tr>
</tbody>
</table>

CLASS A
CONSTRUCTION SIGNING INSTALLATION
STANDARD PLAN K-50.10-00
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Ken L. Smith  02-21-07
Washington State Department of Transportation
PLAN VIEW

WSDOT STANDARD PLAN D-30.10-00 AND D-30.50-00

RISER SECTION
(AS APPLICABLE)

RISER SECTION
(AS APPLICABLE)

GROUT TYPE 2 PER ASTM C-1107 BETWEEN RISERS AND GRATE (TYP.)

PRECAST WATERPROOF SLEEVE OR GROUT TYPE 2, INSIDE AND OUT (TYP.), MEETING ASTM C-1107.
MINIMUM COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 7 DAYS.

OUTLET

PIPE

SEE PLANS FOR INVERT ELEVATION

CRUSHED SURFACING
TOP COURSE FOR BEDDING, AS NEEDED

NOTE:
WHEN STREET GRADE EXCEEDS 5% USE VANED GRATE WSDOT STANDARD PLAN B-30.30-00.

SECTION A-A

TYPE 1 CATCH BASIN STRUCTURE
CROSS SECTION VIEW

NOTES:
1) MACHINE BEARING FACES OF CASE AND COVER TO INSURE POSITIVE FIT.
2) CASTING SHALL BE GRAY IRON AASHTO M-105, CLASS 30.

MONUMENT CASE AND COVER

APPROVED BY: [Signature]
County Engineer: [Name]

REVISION: DESCRIPTION: DATE:

STANDARD PLAN

S-10

YAKIMA COUNTY

FILE NAME: SHEET 1 OF 1
VISIBLE FROM APPROACHING ROADWAY WITH SPEED OF 25 MPH

SIGN FABRICATION SHALL MEET THE CURRENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) STANDARD HIGHWAY SIGNS MANUAL.

**SIGN FACE**

D3-1

1 1/2" RADIUS

6" [W Wapato Rd]

VARIABLE (48" maximum)

3" / 4"

**COLORS**

LEGEND - WHITE (REFL)
BACKGROUND - GREEN (REFL)

ALL LEGEND SHALL BE SERIES C Alphabet *

LEGEND 4" U.C. / 3" L.C.
ALL SPACING 2.67" (Can be reduced for 48" maximum length)
DIRECTION (W) 3" U.C.
ABBREVIATION (R/d) 3" U.C. / 2.25" L.C.

* If SERIES C will not fit, reduce to SERIES B legend.

THE REFLECTIVE SHEETING SHALL MEET THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) RETROREFLECTIVITY REQUIREMENTS.

REFLECTIVE SIGN SHEETING SHALL BE TYPE IIIP (HIP) OR TYPE IV BASED ON AVAILABILITY.

ROAD NAME SIGN SPECIFICATIONS - D3-1 25 MPH

APPROVED BY:
County Engineer: ________________________ DATE: ____________

REVISION: ____________________________ DESCRIPTION: ____________________________ DATE: ____________

STANDARD PLAN

TS-1

YAKIMA COUNTY

SHEET 1 OF 1
VISIBLE FROM APPROACHING ROADWAY WITH SPEED GREATER THAN 25 MPH

SIGN FABRICATION SHALL MEET THE CURRENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) STANDARD HIGHWAY SIGNS MANUAL.

SIGN FACE
D3-1

1 1/2" RADIUS

W Wapato Rd

VARIABLE (50" maximum)

COLORS
LEGEND - WHITE (REFL)
BACKGROUND - GREEN (REFL)

ALL LEGEND SHALL BE SERIES C Alphabet *

LEGEND 6" U.C. / 4.5" L.C.
ALL SPACING 6" (Can be reduced for 50" maximum length)
DIRECTION (W) 3" U.C.
ABBREVIATION (R/d) 3" U.C. / 2.25" L.C.

* If SERIES C will not fit, reduce to SERIES B legend and/or reduce edge and letter spacing as necessary.

THE REFLECTIVE SHEETING SHALL MEET THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) RETROREFLECTIVITY REQUIREMENTS.

REFLECTIVE SIGN SHEETING SHALL BE TYPE IIIP (HIP) OR TYPE IV BASED ON availability.

ROAD NAME SIGN SPECIFICATIONS - D3-1 GREATER THAN 25 MPH

APPROVED BY:

YAKIMA COUNTY

STANDARD PLAN
TS-2

SHEET 1 OF 1
### SUMMARY OF QUANTITIES

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<tr>
<th>Item No.</th>
<th>Description</th>
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<th>Unit</th>
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<td>L.S.</td>
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<td>C.Y.</td>
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<td>DRAINAGE</td>
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<td>CRUSHED SURFACING BASE COURSE</td>
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<td>CEMENT CONC. PEDESTRIAN CURB</td>
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<td>REMOVE AND RESETTING EXISTING</td>
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<td>PERMANENT RISING</td>
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<td>TRAFFIC SIGNAL SYSTEM</td>
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<td>CONSTRUCTION SIGNS CLASS A</td>
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<td>OTHER ITEMS</td>
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<td>STRUCTURE EXCAVATION CLASS B INCL. Haul</td>
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<td>C.Y.</td>
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<td>CEMENT CONC. BEDROLL</td>
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<td>R.V.</td>
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<td>CEMENT CONC. CURB RAMP TYPE PARAL</td>
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<td>EACH</td>
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<td>31</td>
<td>CONCRETE TRAFFIC CURB</td>
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<td>L.F.</td>
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<tr>
<td>32</td>
<td>REMOVE AND REPLACE MONUMENT CASE AND COVER</td>
<td>1</td>
<td>EACH</td>
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</tbody>
</table>
| 33       | MANOR CHANGE                     | 1              | CALC.
| 34       | ROUTE PLAN                       | 1              | L.S. |

### TYPICAL ROADWAY SECTION A

**N75**

- 17.5' RT, STA. 3+70 TO STA. 4+69.70
- TRANSITION FROM 26.5' LT, AT STA. 5+49.67 TO 23.6' LT. AT STA. 6+07.00
- TRANSITION FROM 33.9' RT. AT STA. 5+49.39 TO MATCH EXISTING AT 17.3' RT. AT STA. 6+07.00

### TYPICAL ROADWAY SECTION B

- BEGIN CURB, GUTTER, AND SIDEWALK AT MATCH EXISTING AND TAPER TO STA. 5+35 LT.
- AND STA. 5+36.76 RT. AT TOP BACK OF CURB.
- END CURB GUTTER AND SIDEWALK AT STA. 5+49.67 LT. & STA. 5+49.39 RT. AT TOP BACK OF CURB.
**TERRACE HEIGHTS DR & BUTTERFIELD RD INTERSECTION SIGNALIZATION PROJECT**

**FEDERAL AID PROJECT NO:** CM4628 (007) C 3288

**PREPARED UNDER THE DIRECTION OF:**

**COUNTY ENGINEER DATE:** 11/24/11

**PROJECT ENGINEER:** RANDY SQUARE-BINGG

**DRAWING:** J. MATTINGLY

**CHECKED BY:** R. LEAH

**GENERAL TRAFFIC CONTROL SIGN SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SIGN NO.</th>
<th>MUTCD SIGN #</th>
<th>LOCATION</th>
<th>SIGN SIZE</th>
<th>SHEETING TYPE</th>
<th>POST MATERIAL</th>
<th>POST SIZE</th>
<th>POST # LENGTH</th>
<th>CLEARANCE</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>1</td>
<td>W20-1</td>
<td>TERRACE HEIGHTS DR, 1200' WEST OF BUTTERFIELD RD.</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
<td>10'</td>
</tr>
<tr>
<td>2</td>
<td>W20-1</td>
<td>TERRACE HEIGHTS DR, 1,000' WEST OF BUTTERFIELD RD.</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
<td>10'</td>
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<tr>
<td>3</td>
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<td>TERRACE HEIGHTS DR, 800' WEST OF BUTTERFIELD RD.</td>
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<td>4&quot;x4&quot;</td>
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<td>7'</td>
<td>10'</td>
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<tr>
<td>4</td>
<td>W20-1</td>
<td>TERRACE HEIGHTS DR, 600' WEST OF BUTTERFIELD RD.</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
<td>10'</td>
</tr>
<tr>
<td>5</td>
<td>W20-1</td>
<td>TERRACE HEIGHTS DR, 500' WEST OF BUTTERFIELD RD.</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
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<td>TERRACE HEIGHTS DR, 250' NORTH OF TERRACE HEIGHTS DR.</td>
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<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
<td>10'</td>
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<td>7</td>
<td>W20-1</td>
<td>BUTTERFIELD RD, 350' NORTH OF TERRACE HEIGHTS DR.</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
<td>10'</td>
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<td>BUTTERFIELD RD, 500' NORTH OF TERRACE HEIGHTS DR.</td>
<td>36&quot; x 18&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>12'</td>
<td>7'</td>
<td>12'</td>
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<td>TERRACE HEIGHTS DR, 600' EAST OF BUTTERFIELD RD.</td>
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<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
<td>10'</td>
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<tr>
<td>10</td>
<td>W20-1</td>
<td>TERRACE HEIGHTS DR, 500' EAST OF BUTTERFIELD RD.</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
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<td>7'</td>
<td>10'</td>
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<td>11</td>
<td>W20-1</td>
<td>TERRACE HEIGHTS DR, 1,000' EAST OF BUTTERFIELD RD.</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>A</td>
<td>4&quot;x4&quot;</td>
<td>10'</td>
<td>7'</td>
<td>10'</td>
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</tbody>
</table>

**NOTES:**
1. MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
2. FOR STRUCTURE AND MOUNTING DETAILS, SEE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, SERIES 6.
3. FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS, SEE STANDARD HIGHWAY SIGNS MANUAL.
4. ALL SIGNS, POSTS AND ANY OTHER TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
5. THE POSTS SHALL NOT PROTRUDE ABOVE THE SIGNS.

*A NOTE: POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.*
### Cabinet Wire Terminations

#### Detection Input Terminals

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<td>U3</td>
<td>U4</td>
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<td>L1</td>
<td>L2</td>
<td>L3</td>
<td>L4</td>
<td>L5</td>
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<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>J4</td>
<td>J5</td>
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#### Coordination

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<td>L1</td>
<td>L2</td>
<td>L3</td>
<td>L4</td>
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<tr>
<td>J1</td>
<td>J2</td>
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#### Service Panel

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<td>U3</td>
<td>U4</td>
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#### Auxiliary Output File

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<td>J2</td>
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**NOTE:** Terminate all wiring identified as AC, 120V, and 24V at the AC-DOSS. Seal and coat all spares together and store neatly on the cabinet floor.

**INPUT FILE LAYOUT - PROGRAM NWS VOYAGE**

**INPUT FILE MARKING DETAIL**

**MARKER AREA**

**MARKER AREA**

**MARKER AREA**
**PERMANENT SIGNING SPECIFICATIONS**

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<tr>
<th>SIGN NO.</th>
<th>MUTCD SIGN NO.</th>
<th>LOCATION PT.1</th>
<th>SIGN SIZE 2D1</th>
<th>SHEETSTAND TYPE</th>
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<th>CLEARANCE PT.1</th>
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<tr>
<td>1</td>
<td>W20-R02</td>
<td>TERRACE HEIGHTS DR, 920 FT WEST OF BUTTERFIELD RD.</td>
<td>36&quot; 36&quot;</td>
<td>II METAL (A)</td>
<td>n</td>
<td>y</td>
<td>10'</td>
<td>ON EXISTING LUMINANCE POLE ABOVE SPEED LIMIT SIGN AND INSTALL 3 ORANGE FLAGS.</td>
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<tr>
<td>2</td>
<td>W3-3</td>
<td>TERRACE HEIGHTS DR, 250 FT WEST OF BUTTERFIELD RD.</td>
<td>36&quot; 36&quot;</td>
<td>II METAL (A)</td>
<td>n 14&quot;</td>
<td>y</td>
<td>10'</td>
<td>ON EXISTING LUMINANCE POLE ABOVE SPEED LIMIT SIGN AND INSTALL 3 ORANGE FLAGS.</td>
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<td>BUTTERFIELD RD, 620 FT NORTH OF TERRACE HEIGHTS DR.</td>
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<td>II METAL (A)</td>
<td>n 14&quot;</td>
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<td>10'</td>
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<td>4</td>
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<td>36&quot; 36&quot;</td>
<td>II METAL (A)</td>
<td>n 14&quot;</td>
<td>y</td>
<td>10'</td>
<td>INSTALL 3 ORANGE FLAGS.</td>
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<tr>
<td>5</td>
<td>W3-3</td>
<td>TERRACE HEIGHTS DR, 400 FT EAST OF BUTTERFIELD RD.</td>
<td>36&quot; 36&quot;</td>
<td>II METAL (A)</td>
<td>n 14&quot;</td>
<td>y</td>
<td>10'</td>
<td>INSTALL 3 ORANGE FLAGS.</td>
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<td>W3-3</td>
<td>TERRACE HEIGHTS DR, 750 FT EAST OF BUTTERFIELD RD.</td>
<td>36&quot; 36&quot;</td>
<td>II METAL (A)</td>
<td>n 14&quot;</td>
<td>y</td>
<td>10'</td>
<td>INSTALL 3 ORANGE FLAGS.</td>
</tr>
</tbody>
</table>

**TELESPAR**

**NOTE:** POST LENGTHS SHOWN ARE APPROXIMATE, FINAL VALUES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

**NOTES:**
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5. THE POSTS SHALL NOT PROTRUDE ABOVE THE SIGNS.
6. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY BEFORE THE TRAFFIC SIGNAL IS PUT INTO OPERATION.
TYPICAL SIGN INSTALLATION

NTS

EDGE OF TRAVELED WAY

EDGE OF SHOULDER

2 SQUARE METAL POST

V

W

2 1/2 SQUARE SLEEVE (I.D.)
BOLT INSTALLED 2" MAXIMUM BELOW GROUND

3 1/4 SQUARE ANCHOR (5/8"

FACE OF CURB

PAYS

W

V

2 SQUARE METAL POST

2 1/2 SQUARE SLEEVE (I.D.)
BOLT INSTALLED 2" MAXIMUM BELOW GROUND

2 1/4 SQUARE ANCHOR (5/8"

W3-3

W3-3