Bid Set No. _____

CONTRACT PROVISIONS

Contract Documents, Bid Proposal, Project Specifications and Special Provisions

FOR

Non-Signalized Pedestrian Crossing Project

OWNER
CITY OF FIFE
PUBLIC WORKS DEPARTMENT
5411 23RD STREET EAST
FIFE, WA 98424

DESIGN ENGINEER
H.W. LOCHNER, INC
CONSULTING ENGINEERS AND PLANNERS
400 108TH AVE NORTHEAST, SUITE 401
BELLEVUE, WA 98004
425-454-3160

September, 2013

CONTRACT PROVISIONS

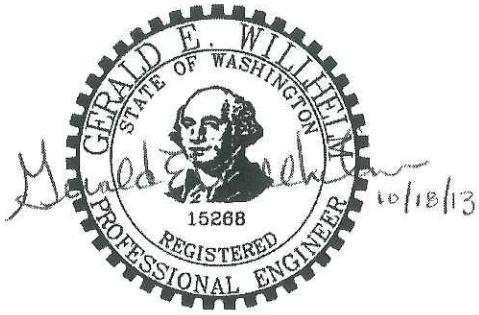
for

CITY OF FIFE, WASHINGTON

Non-Signalized Pedestrian Crossings Project

FEDERAL AID # HSIP-000S(339)

The engineering material and data contained in these Contract Documents were prepared under the supervision and direction of the undersigned, whose seal as registered professional engineer is affixed below.



The City of Fife, Assistant City Engineer has reviewed and approved these Contract Documents, and they are authorized for issue.

Ken Gill, P.E.: _____ Date: 11-27-13

CONTRACT PROVISIONS
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CITY OF FIFE - Non-Signalized Pedestrian Crossings Project

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Proposed Subcontractors	White	LD-11
Non-Collusion Certificate	White	LD-12
Certificate as to Corporate Principal	White	LD-13
Schedule A of Prices	White	LD-14
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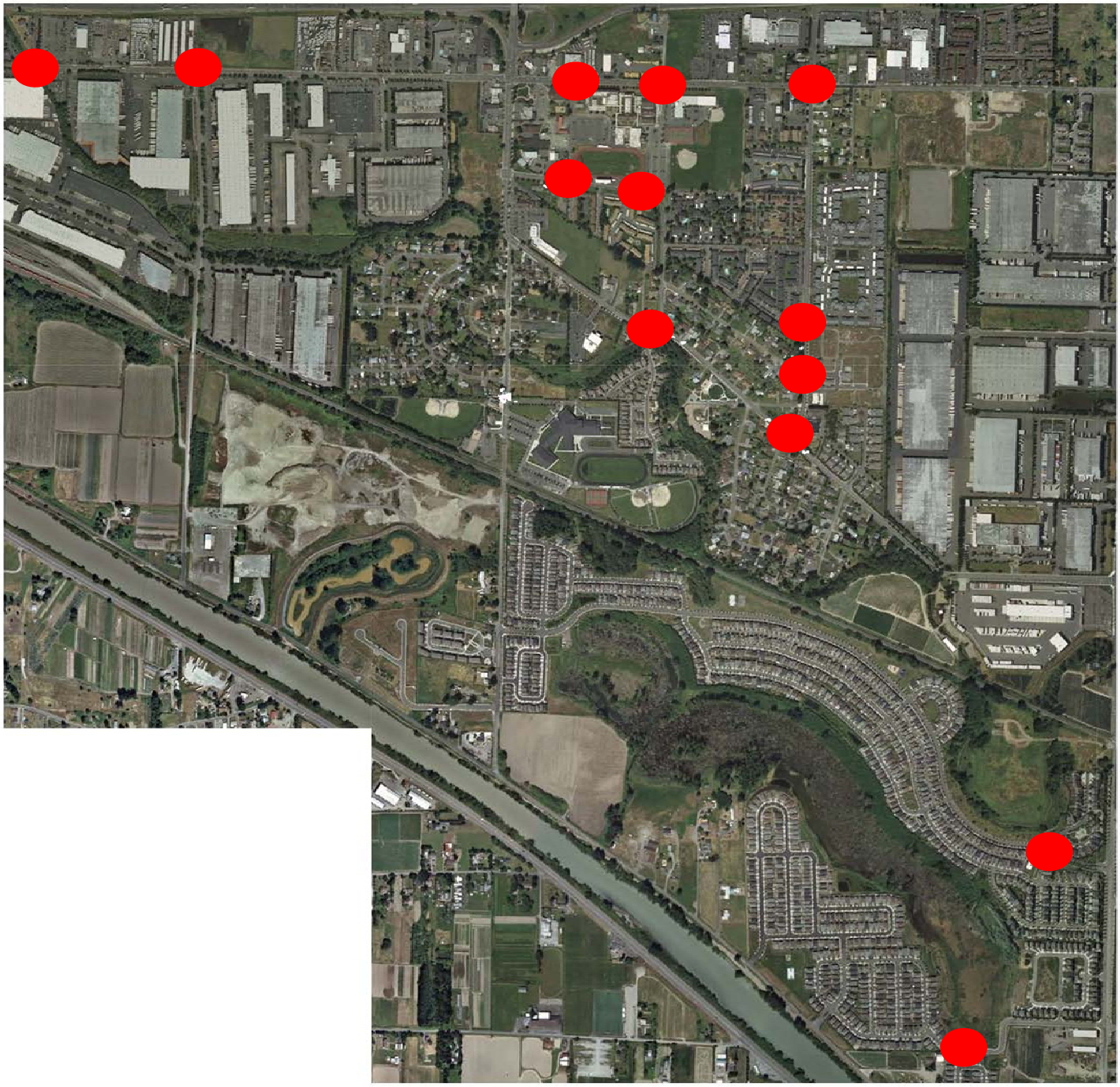
VICINITY MAP



LOCATION MAP

NOT TO SCALE

ADVERTISEMENT FOR BIDS

Notice is hereby given that sealed bids will be received by the City of Fife City Hall up to the hour of 10:00 a.m. PST on January 7th, 2014, for the **Non Signalized Pedestrian Crossings Project** and will then be opened and publicly read.

The work involved in the **Non Signalized Pedestrian Crossing Project** includes but is not limited to: installation of School zone solar flasher system, sidewalk, curb ramps, pavement marking, permanent signing and other miscellaneous roadway improvements;

A Zero Goal for DBE has been established.

Bid proposals will be received only at City Hall located at 5411 23rd Street East, Fife, Washington. Proposals received after 10:00 a.m. PST, on January 7th, 2014, will not be considered.

Free-of-charge access to project bid documents (plans, specifications, addenda, and Bidders List) is provided to Prime Bidders, Subcontractors, and Vendors by going to Builders Exchange at www.bxwa.com and clicking on "Posted Projects", "Public Works", and "City of Fife". This online plan room provides Bidders with fully usable online documents with the ability to: download, view, print, order full/partial plan sets from numerous reprographic sources, and a free online digitizer/take-off tool. It is recommended that Bidders "Register" in order to receive automatic e-mail notification of future addenda and to place themselves on the "Self-Registered Bidders List". Bidders that do not register will not be automatically notified of addenda and will need to periodically check the on-line plan room for addenda issued on this project. Contact Builders Exchange of Washington at 425.258.1303 should you require assistance with access or registration.

The plans are also available on the City of Fife website.

The contact is Russ Blount, PE Director of Public Works at (253) 922-2489 or Ken Gill, PE Assistant City Engineer at (253) 922-9315.

All bids shall be submitted on the prescribed Bid Forms and in the manner as stated in this advertisement and in the Bid Document and said bids shall be accompanied by a bid deposit in the form of cash, cashier's check, certified check, postal money order, or a surety bond to the City of Fife in the amount of five percent (5%) of the total amount of the bid. **Bids submitted on other than the bond form provided by the City may be subject to rejection. Faxed bids and/or surety bond will not be accepted.**

Bids must be submitted in a sealed envelope with the outside clearly marked "sealed bid" with the bid opening date and time, and the project name as it appears in this advertisement and the name and address of the bidder. Bids shall be addressed to the City Clerk, City of Fife, 5411 23rd Street, Fife, WA 98424.

The City of Fife reserves the right to reject any or all bids and to waive irregularities in the bid or in the bidding.

No Bidder may withdraw his proposal after 10:00 a.m. PST January 7th, 2014, or before award of Contract, unless said award is delayed for a period exceeding sixty (60) days.

The City of Fife in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.

Carol Etgen
City Clerk

Dates of Publication:

Tacoma News Tribune – December 4th, 2014, and December 11th, 2014

INSTRUCTION TO BIDDERS

I. Bid Procedures:

Bid proposal must be submitted in a sealed envelope marked:

"Bid Enclosed for Non Signalized Pedestrian Crossings project"

At the time of bid submittal, the Contractor shall notify the City in writing of the names of all proposed subcontractors and materials suppliers for the work.

II. Bidder Responsibility Criteria:

A. It is the intent of the City to award a contract to the low responsible bidder. Before award, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder may be required by the City to submit documentation demonstrating compliance with the criteria. The bidder must:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;

2. Have a current Washington Unified Business Identifier (UBI) number;

3. If applicable:
   a. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;

   b. Have a Washington Employment Security Department number, as required in Title 50 RCW;

   c. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;

4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).

B. No person, firm or corporation shall be allowed to make or file or be interested in more than one Bid for the same work unless alternate Bids are specifically called for. A person, firm or corporation that has submitted a sub-proposal to a Bidder is not thereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or making a prime proposal.

C. A Zero Goal for DBE has been established.

III. Execution of Contract

A. Execution of Contract:

1. Within 10 days after the date the lowest qualified Bidder receives notification of award, the lowest qualified Bidder shall execute and return the Contract and the required number of copies and shall furnish a performance and payment bond and insurance.

2. At the time of bid submittal, the Contractor shall notify the City in writing of the names of all proposed subcontractors and materials suppliers for the work.

B. Performance Bond/Payment Bond:

1. To be furnished at the time of delivery of the executed Contract.

2. To be in full amount of Contract price.

3. The surety must be authorized to do business in the State of Washington and be satisfactory to the City. Each bond must be approved in writing by the City Attorney.

C. Contract Insurance:

1. Work under the Contract shall not commence until the City has approved the Contractor's insurance. No subcontractors shall commence work until the City has approved subcontractor's insurance.

2. The Contractor and subcontractors shall obtain and maintain Workman's Compensation Insurance during the life of this Contract.

3. Contractor specifically waives its immunity under Title 51 of the Revised Code of Industrial Insurance Act for injuries to its employees, and indemnifies the City from liability for the action brought by those employees.

IV. Legal Wages on Public Works

A. Statement of Intent to Pay Prevailing Wages:

1. The Contractor shall submit a Statement for the Contractor and each and every subcontractor to the Industrial Statistician of the Department of Labor and Industries for approval. A $25.00 fee payable to the Department of Labor and Industries shall be included for each statement submitted. Should force account work be authorized by the City, the Contractor shall, at his/her own expense, provide the City with a new statement of Intent to Pay Prevailing Wages if any changes have occurred since the issuance of the original Intent to Pay Prevailing Wages was filed.

2. For contracts in excess of $10,000, the Contractor shall post in a location readily visible to workers at the job site:

a. A copy of the approved statement of Intent to Pay Prevailing Wages (Labor and Industries [L & I] Form F700-029-000).

b. The address and telephone number of the Industrial Statistician of the Department of Labor and Industries.

3. The statement of Intent to Pay Prevailing Wages shall include the Contractor's registration certificate number or UBI number and prevailing rate of wage for each classification of workers entitled to prevailing wages. Self-employed or owner/operator contractors or subcontractors who perform the actual work will be required to submit a statement regardless of the method of payment.

B. Affidavit of Wages Paid: Following final acceptance of the Project, the Contractor shall submit, for the Contractor and each and every subcontractor, an Affidavit of Wages Paid (L & I Form F700-007-000) form to the Industrial Statistician of the Department of Labor and Industries for approval. A $25.00 fee payable to the Department of Labor and Industries shall be included for each statement submitted. Self-employed or owner/operator contractors or subcontractors who perform the actual work will be required to submit an affidavit regardless of the method of payment.

V. Contract Payments

A. Progress payments, as permitted by the specifications, will be made by the City as work is accomplished. No payments will be made until a certified Intent to Pay Prevailing Wages for the Contractor and all subcontractors has been received by the City.

BIDDER'S CHECKLIST

The following forms and information must be turned in at the time of the Bid opening:

1. Proposal (page LD-8), certify receipt of addenda (if any) in the space provided in the second paragraph
2. Statement of bidder's Qualifications (pages LD-9 & LD-10)
3. Proposed Subcontractors (page LD-11)
4. Non-Collusion Certificate (page LD-12), notary required
5. Certificate as to Corporate Principal (page LD-13), notary required
6. Bids on all schedules (pages LD-14 thru LD-17).
    a. Written amounts agree with the amounts shown in figures
    b. Unit and lump sum prices; items may be different in each schedule
7. Local Agency Proposal Bond (LD-20); Amount of bid guaranty is at least 5 percent of the total amount of the bid

PROPOSAL

Project: **Non Signalized Pedestrian Crossings** Date: _____

The bidder is required to submit a total bid (Schedule A+ Schedule B) and a bid for each of the cumulative Schedule(s) Schedule A and Schedule B. The total bid (Schedule A+ Schedule B) shall include constructing all items included in the proposal.

Schedule A is based on constructing those elements contained in all plan sheets.

Schedule B is based on procurement and installation of the School Zone Solar Flasher Assembly.

Schedule A Total Bid Amount:_____(repeated numerically):_____

Schedule B Total Bid Amount:_____(repeated numerically):_____

Schedule A+B Total Bid Amount:_____(repeated numerically):_____

ALL bid schedules must be completed; the City reserves the right to award the project to the low bidder based on the total bid amount for the total Schedules.

The undersigned, as Bidder, declare that we have personally examined the Project site in the City of Fife, and all of the plans, specifications, and Contract Documents herein contained, and that we will contract with the City of Fife on the form of agreement provided herewith to do everything necessary to perform and complete construction called for in the Contract for the construction of the Project listed above, at the price and on the terms and conditions herein contained in the Contract Documents. Total price for the Contract has been written in words followed by numbers in parentheses.

We agree that the following shall form a part of this proposal: Statement of Bidders Qualifications, Bid Schedule, Proposed Subcontractors, Non-Collusion Certificate, and Certificate as to Corporate Principal. We acknowledge that addenda numbers _____ to _____ have been delivered to us and have been examined as part of the Contract Documents.

Attached is a proposal guaranty bond duly completed by a guaranty company authorized to carry on business in the state of Washington in the amount of at least five percent (5%) of the total amount of our proposal.

If our proposal is accepted, we agree to sign the Contract and to furnish the performance bond and the required evidence of insurance within ten (10) calendar days after receiving written notice of the award of the Contract. We acknowledge that the City of Fife may forfeit our bid deposit as liquidated damages in the event of our non-compliance with the requirements of this paragraph.

The Bidder agrees to prosecute the work in accordance with this Document and the Standard Specifications. Bidder further agrees to complete the Project within the allotted time as specified in the Contract.

The Bidder understands that the Owner reserves the right to reject any and all proposals, as well as increase or decrease the scope of work, in accordance with Section 1-04 of the 2012 WSDOT/APWA *Standard Specifications for Road, Bridge, and Municipal Construction*.

_____	_____
Bidder	Telephone
_____	_____
By Authorized Official	
_____	_____
Date	
_____	_____
Contractor's Registration No.	Business Address

All blank lines must be filled in to constitute a completed Bid Form.

STATEMENT OF BIDDER'S QUALIFICATIONS

Each Contractor bidding on work included in these Contract Documents shall prepare and submit the following data:

1. Name of Bidder: _____

2. Business Address: _____

3. How many years have you been engaged in the contracting business under the present firm name?
   _____
   _____

4. Number of contracts now in hand: _____ Total value of contracts: $_____

5. List of more important projects completed by your Company including approximate costs:
   _____
   _____
   _____
   _____

6. List your major equipment: _____
   _____
   _____
   _____
   _____

7. Key personnel to be assigned to project and experience: _____
   _____
   _____

8. References:

   Name and License No.: _____
   Address: _____
   Contact Person and Phone Number: _____

9. Bank References:

   Name: _____
   Address: _____
   Contact Person and Phone Number: _____

10. State of Washington Contractor Registration No.: _____

11. Expiration date of Contractor's Registration: _____

12. Contractor's Surety or Bonding Company: _____

13. Contractor's Agent's Address and Telephone Number: _____
    _____

14. List all jobs under construction, being completed, or contracted to start.

Project Name	Contact Person	Phone Number

15. Does the Contractor have the resources to start immediately? _____

_____ _____

Company Authorized Signature/Title

Local Agency Name
City of Fife
Local Agency Address
Department of Public Works 5411 23rd Street Fife, WA 98424

Local Agency Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name Non-Signalized Pedestrian Crossings

Failure to list subcontractors with whom the bidder, if awarded the contract, will directly subcontract for performance of the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical, as described in Chapter 19.28 RCW or naming more than one subcontractor to perform the same work will result in your bid being non-responsive and therefore void.

Subcontractor(s) with whom the bidder will directly subcontract that are proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW **must** be listed below. The work to be performed is to be listed below the subcontractor(s) name.

To the extent the Project includes one or more categories of work referenced in RCW 39.30.060, and no subcontractor is listed below to perform such work, the bidder certifies that the work will either (i) be performed by the bidder itself, or (ii) be performed by a lower tier subcontractor who will not contract directly with the bidder.

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

* Bidder's are notified that is the opinion of the enforcement agency that PVC or metal conduit, junction boxes, etc, are considered electrical equipment and therefore considered part of electrical work, even if the installation is for future use and no wiring or electrical current is connected during the project.

CITY OF FIFE

NONCOLLUSION CERTIFICATE

STATE OF WASHINGTON)
)ss
COUNTY OF PIERCE)

The undersigned, being duly sworn, deposes and says that the person, firm, association, co-partnership or corporation herein named, has 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 the preparation and submission of a proposal to the City of Fife for consideration in the award of a Contract on the improvement described as follows:

City of Fife Non Signalized Pedestrian Crossings

_____
Name of Firm

_____
Title

_____
Signature of Authorized Member

Sworn before me this
_____ day of _____, _____.

_____
(Notary Public) (Corporate Seal)

My commission expires _____, _____.

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the _____ of the corporation named as Contractor in Agreement attached hereto; that _____ who signed said Agreement on behalf of the Contractor, was then _____ of said corporation; that said Agreement was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

By: _____

Title: _____

State of: _____

County of: _____

being duly sworn deposes and says that he is _____ of _____.
(Name of Organization)

Subscribed and sworn before me this
_____ day of _____, _____.

_____
(Notary Public)

My commission expires: _____, _____.

PROPOSAL SCHEDULE A

City of Fife: Non-signalized Pedestrian Crossing

Note: Unit Prices for all items, all extensions, and total amount of bid shall be shown.
All entries must be typed or entered in ink.

Item No.	Spec No.	Item Description	Unit	Quant.	Unit Price	Amount
1	1-09.7	Mobilization	LS	1		
2	1-07.15(1)	SPCC Plan	LS	1		
3		Not Used				
4	1-10.5(1)	Project Temporary Traffic Control	LS	1		
5	1-10.5(2)	Other Temporary Traffic Control	LS	1		
6	1-10.2(1)B	Traffic Control Supervisor	LS	1		
7	1-10.3(1)A	Flaggers and Spotters	HR	100		
8	1-09.3	Unanticipated Site Work	FA	1	2,000	2,000.00
9	2-02	Removal of Structure and Obstruction	LS	1		
10	2-02.5	Sawcutting	LF	1,575		
11	8-01.5	Inlet Protection	EACH	27		
12	8-01.5	Erosion/Water Pollution Control	LS	1		
13	4-04.5	Crushed Surfacing Top Course	TON	120		
14	4-04.5	Crushed Surfacing Base Course	TON	227		
15	5-04.5	HMA CL. 1/2 in. PG 64-22	TON	284		
16	8-06	Cement Conc. Driveway Entrance Type 1	SY	28		
17	8-14	Cement Conc. Sidewalk	SY	550		
18	8-04	Cement Conc. Traffic Curb & Gutter	LF	1,670		
19	8-14.5	Cement Conc. Curb Ramp Type Perpendicular A	EA	11		

Item No.	Spec No.	Item Description	Unit	Quant.	Unit Price	Amount
20	8-14.5	Cement Conc. Curb Ramp Type Perpendicular B	EA	4		
21	8-14.5	Cement Conc. Curb Ramp Type Parallel A	EA	15		
22	8-14.5	Cement Conc. Curb Ramp Type Parallel B	EA	4		
23	8-14.5	Cement Conc. Curb Ramp Type Combination	EA	11		
24	8-14.5	Transition Curb Ramp	EA	1		
25	8-14.5	Cement Conc. Curb Ramp Type Single Direction A	EA	2		
26	8-04.5	Cement Conc. Pedestrian Curb	LF	1,120		
27	8-21.5	Permanent Signing	LS	1		
28	8-22.5	Plastic Stop Line	LF	62		
29	8-22.5	Plastic Crosswalk Line	SF	496		
30	8-22.5	Plastic Traffic Arrow	EA	1		
31	8-22.5	Plastic Traffic Letter	EA	0		
32	8-22.5	Removing Plastic Line	LF	235		
33	8-22.5	Removing Plastic Crosswalk Line	SF	1,264		
34	8-22.5	Removing Plastic Traffic Marking	EA	1		
35	8-20.5	School Zone Solar Flasher Assembly	EA	0		
36	8-02.5	Top Soil Type A	CY	14		
37	8-01.5	Seeding, Fertilizing and Mulching	SY	60		
38	2-11.5	Trimming and Cleanup	LS	1		
39	8-02.5	Sod Installation	SY	32		
40	8-02.5	Transplant Plant	EA	0		

TOTAL BID SCHEDULE A $_____

PROPOSAL SCHEDULE B

City of Fife: Non-signalized Pedestrian Crossing

Note: Unit Prices for all items, all extensions, and total amount of bid shall be shown.
All entries must be typed or entered in ink.

Item No.	Spec No.	Item Description	Unit	Quant.	Unit Price	Amount
1	1-09.7	Mobilization	LS	0		
2	1-07.15(1)	SPCC Plan	LS	0		
3		Not Used				
4	1-10.5	Project Temporary Traffic Control	LS	0		
5	1-10.5(1)	Project Temporary Traffic Control	LS	0		
6	1-10.5(2)	Other Temporary Traffic Control	LS	0		
7	1-10.3(1)A	Flaggers and Spotters	HR	0		
8	1-09.3	Unanticipated Site Work	FA	1	500.00	500.00
9	2-02	Removal of Structure and Obstruction	LS	0		
10	2-02.5	Sawcutting	LF	0		
11	8-01.5	Inlet Protection	EACH	0		
12	8-01.5	Erosion/Water Pollution Control	LS	0		
13	4-04.5	Crushed Surfacing Top Course	TON	0		
14	4-04.5	Crushed Surfacing Base Course	TON	0		
15	5-04.5	HMA CL. 1/2 in. PG 64-22	TON	0		
16	8-06	Cement Conc. Driveway Entrance Type 1	SY	0		
17	8-14	Cement Conc. Sidewalk	SY	0		
18	8-04	Cement Conc. Traffic Curb & Gutter	LF	0		
19	8-14.5	Cement Conc. Curb Ramp Type Perpendicular A	EA	0		

Item No.	Spec No.	Item Description	Unit	Quant.	Unit Price	Amount
20	8-14.5	Cement Conc. Curb Ramp Type Perpendicular B	EA	0	_____	_____
21	8-14.5	Cement Conc. Curb Ramp Type Parallel A	EA	0	_____	_____
22	8-14.5	Cement Conc. Curb Ramp Type Parallel B	EA	0	_____	_____
23	8-14.5	Cement Conc. Curb Ramp Type Combination	EA	0	_____	_____
24	8-14.5	Transition Curb Ramp	EA	0	_____	_____
25	8-14.5	Cement Conc. Curb Ramp Type Single Direction A	EA	0	_____	_____
26	8-04.5	Cement Conc. Pedestrian Curb	LF	0	_____	_____
27	8-21.5	Permanent Signing	LS	0	_____	_____
28	8-22.5	Plastic Stop Line	LF	0	_____	_____
29	8-22.5	Plastic Crosswalk Line	SF	0	_____	_____
30	8-22.5	Plastic Traffic Arrow	EA	0	_____	_____
31	8-22.5	Plastic Traffic Letter	EA	0	_____	_____
32	8-22.5	Removing Plastic Line	LF	0	_____	_____
33	8-22.5	Removing Plastic Crosswalk Line	SF	0	_____	_____
34	8-22.5	Removing Plastic Traffic Marking	EA	0	_____	_____
35	8-20.5	School Zone Solar Flasher Assembly	EA	7	_____	_____
36	8-02.5	Top Soil Type A	CY	0	_____	_____
37	8-01.5	Seeding, Fertilizing and Mulching	SY	0	_____	_____
38	2-11.5	Trimming and Cleanup	LS	0	_____	_____
39	8-02.5	Sod Installation	SY	0	_____	_____
39	8-02.5	Transplant Plant	EA	0		

TOTAL BID SCHEDULE B

$_____

CONTRACT

THIS AGREEMENT, made in four copies, each of which shall be deemed an original, and entered into this _____ day of _____, _____, by and between the City of Fife, hereinafter called the "Owner" and _____, hereinafter called the "Contractor."

W I T N E S E T H:

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:

1. The Contractor shall do all work; furnish all tools, materials, and equipment; and complete the construction of the **Non-Signalized Pedestrian Crossings** hereinafter referred to as the "Project." The work shall be commenced and completed in accordance with and as described in the Contract Documents, which are by this reference incorporated herein and made a part hereof, and shall perform any alterations in or additions to the Project provided under this Contract and every part thereof, for the sum of _____ ($_____) in accordance with the Contract Documents.

2. The Contractor agrees to begin the work on the Project as described in the Contract Documents on the date established in the Notice to Proceed given to the Contractor by the City. The Contractor further agrees to carry on such work regularly and without interruption thereafter (unless the City shall otherwise specifically direct, in writing,) with such force as to secure its completion within time restriction listed under Section 1-08.5 of the Special Provisions after such notice to begin work; the time of beginning, rate of progress, and time of completion being essential conditions of the Contract.

3. The Contractor shall provide and bear the expense of all equipment, work, 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 this Contract and every part thereof, except as otherwise provided in the Contract Documents and Specifications to be furnished by the City of Fife.

4. The term "Contract Documents" means and includes the following:

   A. Advertisement for Bids

   B. Proposal

   C. Bid Bond

   D. Contract

   E. Required Contract Provisions Federal-Aid Construction Contracts FHWA-1273-Revised May 1, 2012

   F. Amendments to the Standard Specifications

   G. Noncollusion Affidavit

   H. Special Provisions

   I. Equal Employment Opportunity Requirements

   J. Performance Bond

   K. Notice to Award

   L. Notice to Proceed

   M. Change Order(s)

   N. Drawings prepared HW Lochner, Inc.

   O. Addenda No. _____ dated _____, 2013.

   P. WSDOT/APWA *2012 Standard Specifications for Road, Bridge and Municipal Construction.*

Q. *Manual on Uniform Traffic Control Devices* (MUTCD).

5. The Owner agrees to pay to the Contractor in the manner and at such times as set forth in the Standard Specifications, Section 1-09, such amounts as required by the Contract Documents.

6. The Contractor for himself, and for his/her heirs, executors, administrators, successors, and assigns, does hereby agree to the full performance of all of the covenants herein upon the part of the Contractor.

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

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed the day and year first above written.

CITY OF FIFE	CONTRACTOR
By _____	By _____
David K. Zabell	Name of Contractor
Its City Manager	By _____
	Its _____
ATTEST:	CONTRACTOR'S ADDRESS AND PHONE:
_____	_____
Carol Etgen, City Clerk	
	_____
APPROVED FOR FORM:	_____
_____	
Gregory F. Amann, Asst. City Attorney	

City of Fife

Department of Public Works
5411 23rd Street
Fife, WA 98424

Local Agency Proposal Bond

KNOW ALL MEN BY THESE PRESENTS, That we,

of as principal, and the

a corporation duly organized under the laws of the state of , and

authorized to do business in the State of Washington, as surety, are held and firmly bound unto the State of Washington in the full and penal sum of five (5) percent of the total amount of the bid proposal of said principal for the work hereinafter described, for the payment of which, well and truly to be made, we bind our heirs, executors, administrators and assigns, and successors and assigns, firmly by these presents.

The condition of this bond is such, that whereas the principal herein is herewith submitting his or its sealed proposal for the following highway construction, to wit:

said bid and proposal, by reference thereto, being made a part hereof.

NOW, THEREFORE, If the said proposal bid by said principal be accepted, and the contract be awarded to said principal, and if said principal shall duly make and enter into and execute said contract and shall furnish bond as required by the City of Fife within a period of twenty (20) days from and after said award, exclusive of the day of such award, then this obligation shall be null and void, otherwise it shall remain and be in full force and effect.

IN TESTIMONY WHEREOF, The principal and surety have caused these presents to be signed and sealed this _____ day of _____, _____.

_____

_____
(Principal)

_____
(Surety)

_____
(Attorney-in-fact)

City of Fife

Local Agency Performance Bond

PERFORMANCE BOND

to [City of _____ or _____ County], WA

Bond No. _____

The [City of _____ or _____ County], Washington ([City or County]) has awarded to _____ (Principal), a contract for the construction of the project designated as _____ ,Project No. _____, in [location], Washington (Contract), and said Principal is required to furnish a bond for performance of all obligations under the Contract.

The Principal, and _____ (Surety), a corporation, organized under the laws of the State of _____ and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the [City or County], in the sum of _____ US Dollars ($ _____) Total Contract Amount, subject to the provisions herein.

This statutory performance bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall well and faithfully perform all of the Principal's obligations under the Contract and fulfill all terms and conditions of all duly authorized modifications, additions, and changes to said Contract that may hereafter be made, at the time and in the manner therein specified; and if such performance obligations have not been fulfilled, this bond shall remain in force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the office executing on behalf of the surety.

PRINCIPAL		SURETY	
Principal Signature	Date	Surety Signature	Date
Printed Name	Date	Printed Name	Date
Title		Title	

Name, address, and telephone of local office/agent of Surety Company is:

Approved as to form:

[City or County] Attorney, [City of _____ or _____ County] _____ Date

City of Fife

Local Agency Payment Bond

PUBLIC WORKS PAYMENT BOND

to [City of _____ or _____ County], WA

Bond No. _____

The [City of _____ or _____ County], Washington ([City or County]) has awarded to _____ (Principal), a contract for the construction of the project designated as_____ ,Project No. _____ , in [location], Washington (Contract), and said Principal is required under the terms of that Contract to furnish a payment bond in accord with Title 39.08 Revised Code of Washington (RCW) and (where applicable) 60.28 RCW.

The Principal, and _____ (Surety), a corporation organized under the laws of the State of _____ and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the [City or County], in the sum of _____ US Dollars ($ _____) Total Contract Amount, subject to the provisions herein.

This statutory payment bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall pay all persons in accordance with RCW 39.08, 39.12, and 60.28 including all workers, laborers, mechanics, subcontractors, and materialmen, and all person who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and all taxes incurred on said Contract under Titles 50 and 51 RCW and all taxes imposed on the Principal under Title 82 RCW; and if such payment obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any changes, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the office executing on behalf of the surety.

PRINCIPAL		SURETY	
Principal Signature	Date	Surety Signature	Date
Printed Name	Date	Printed Name	Date
Title		Title	

Name, address, and telephone of local office/agent of Surety Company is:

Approved as to form:

[City or County] Attorney, [City of _____ or _____ County] _____ Date

DOT Form 272-003A EF
08/2012

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.

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 to have agreed to the provisions of this declaration.**

NOTICE TO ALL BIDDERS

To report 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.

Required Contract Provisions Federal-Aid Construction Contracts

FHWA-1273 Electronic Version – May 1, 2012

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 forms 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 for and 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 insure 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 23 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 qualifiable 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 segregated. The term "facilities" includes 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 conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–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 refer 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/whd/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 journeymen 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).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

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 contacting 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 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 to protect the life and health 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 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 provisions 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 306 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, lease 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 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 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 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 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, 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.epls.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 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.epls.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 633.207(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.

AMENDMENT
REQUIRED CONTRACT PROVISIONS FEDERAL-AID
CONSTRUCTION CONTRACTS (Exclusive of
Appalachian Contracts)

Section I, General, is supplemented with the following:

7. Section 902 of the American Recovery and Reinvestment Act (ARRA) of 2009 requires that each contract awarded using ARRA funds must include a provision that provides the U.S. Comptroller General and his representatives with the authority to:

"(1) to examine any records of the contractor or any of its subcontractors, or any State or local agency administering such contract, that directly pertain to, and involve transactions relating to, the contract or subcontract; and

(2) to interview any officer or employee of the contractor or any of its subcontractors, or of any State or local government agency administering the contract, regarding such transactions."

The Contractor shall include the following provision in all contracts, subcontracts, and other contracts for services for an ARRA funded project:

"Accordingly, the Comptroller General and his representatives shall have the authority and rights as provided under Section 902 of the ARRA with respect to this contract, which is funded with funds made available under the ARRA. Section 902 further states that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of the Comptroller General."

"Section 1515(a) of the ARRA provides authority for any representatives of the Inspector General to examine any records or interview any employee or officers working on this contract. The contractor is advised that representatives of the inspector general have the authority to examine any record and interview any employee or officer of the contractor, its subcontractors or other firms working on this contract. Section 1515(b) further provides that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of an inspector general."

Under Section II, Paragraph 8b is revised as follows:

The reference to 49 CFR 23 is revised to read 49 CFR 26. Under Section

II, Paragraph 8b is supplemented with the following:

The contractor, sub-recipient 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 USDOT- 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 recipient deems appropriate.

Under Section II, in accordance with standard specification 1-08.1(1) and applicable RCWs a new paragraph 8d is added as follows:

The contractor or subcontractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract and/or agreement no later than ten (10) days from the receipt of each payment the prime contractor receives from WSDOT or its sub-recipients. The prime contractor agrees further to return retainage payments to each subcontractor within ten (10) days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the WSDOT. This clause covers both DBE and non-DBE contractors.

Under Section IV, the applicability statement is supplemented with the following:

(Applicable to all ARRA funded construction contracts and related subcontracts regardless of location, including projects on local roads or rural minor collectors, and Transportation Enhancement projects outside the highway right-of-way.)

Under Section IV, Paragraph 2b(4) is deleted.

Under Section IV, Paragraph 4, "and helpers" is deleted from the title. Under

Section IV, Paragraph 4a(1), add:

The provisions in this section allowing apprentices to work at less than the predetermined rate when they are registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, or with the Bureau of Apprenticeship and Training, does not preclude a requirement for the Contractor to pay apprentices the full applicable predetermined rate in the event a State Apprenticeship Agency, recognized by the Bureau, has not approved, or withdraws approval, of an apprenticeship program.

Under Section IV, Paragraph 4c is deleted.

Under Section IV, Paragraph 6 is revised by deleting "helpers" and "helper". Under

Section IV, Paragraph 7 is revised by deleting "helpers".

Under Section V, the applicability statement is supplemented with the following:

(Applicable to all ARRA funded construction contracts and related subcontracts regardless of location, including projects on local roads or rural minor collectors, and Transportation Enhancement projects outside the highway right-of-way.)

Under Section V, Paragraph 2a is revised by deleting "helpers".

Under Section V, Paragraph 2b, the first sentence is revised to read:

“The payroll records shall contain the name and an individually identifying number (e.g., the last four digits of the employees social security number) for each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof 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. Payrolls shall not include the full social security number and home address of covered workers. Contractors and subcontractors shall maintain the full social security number and home address of each covered worker and shall provide them to the SHA upon request.”

Under Section V, Paragraph 2d(2) is revised by deleting "helper". Section VI, Records Of Material,

Supplies, And Labor, is deleted

(Applicable to all ARRA funded construction contracts and related subcontracts regardless of location, including projects on local roads or rural minor collectors, and Transportation Enhancement projects outside the highway right-of-way.)

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Under Section V, Paragraph 2d(2) is revised by deleting "helper". Section VI, Records Of Material,

Supplies, And Labor, is deleted

AMENDMENTS

INTRO.AP1

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.

1-01.AP1

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.

1-02.AP1

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.

1-03.AP1

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

1-05.AP1

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.

1-06.AP1

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 Restrainers
- 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.

1-07.AP1

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:

1. EEOC - P/E-1 (revised 11/09) - Equal Employment Opportunity is THE LAW published by US Department of Labor. Post for projects with federal-aid funding

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.

1-08.AP1

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.

1-09.AP1

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.

3-01.AP3

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:

9-03.1	Concrete Aggregate (except pavement)	2000	1000[1]	$15.00[2]	$30.00[2]
9-03.1	Concrete Aggregate (pavement)	4000	2000[1]	$15.00[2]	$30.00[2]
9-03.4(2)	Crushed Screening[3]	1000	500	$20.00	$40.00

In Table 1, 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	4000	2000	$30	$60

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 A[3]								

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		Other[4]

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.

4-06.AP4
Section 4-06, Asphalt Treated Base
August 5, 2013

This section including title is deleted in its entirety and replaced with the following:

Vacant

5-01.AP5
Section 5-01, Cement Concrete Pavement Rehabilitation
August 5, 2013

5-01.3(2)B Portland Cement Concrete
The fifth sentence in the third paragraph is revised to read:

The lower Specification limit for compressive strength shall be 4,000-psi.

The last two sentences in the third paragraph are deleted.

5-01.3(4) Replace Portland Cement Concrete Panel
This section is supplemented with the following:

Replacement panels that crack shall be repaired as specified in Section 5-05.3(22) at no cost to the Contracting Agency. Epoxy-coated dowel bars meeting the requirements of Section 9-07.5(1) may be substituted for the corrosion resistant dowel bars specified.

5-01.3(6) Dowel Bar Retrofit
The second sentence in the ninth paragraph is revised to read:

The foam insert shall fit tightly around the dowel and to the bottom and edges of the slot and extend to the top of the existing pavement surface.

5-01.3(11) Concrete Slurry
This section including title is revised to read:

5-01.3(11) Concrete Slurry and Grinding Residue

All concrete slurry and grinding residue shall be removed from the pavement surface on a continual basis immediately behind the grinding or cutting operations. Slurry shall not be allowed to drain into an area open to traffic, off of the paved surface or into any drainage structure.

The Contractor shall collect the concrete slurry and grinding residue from the pavement surface and dispose of it in accordance with Section 2-03.3(7)C.

Opening to traffic shall meet the requirements of Section 5-05.3(17).

5-02.AP5

Section 5-02, Bituminous Surface Treatment
August 5, 2013

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

5-02.1(1) New Construction

This section is revised to read:

This method of treatment requires two applications of emulsified asphalt and three applications of aggregate. The first application of emulsified asphalt is applied to an untreated Roadway that is followed with an application of aggregate. The second application of emulsified asphalt is followed with two additional applications of aggregate.

5-02.1(2) Seal Coats

This section is revised to read:

This method requires the placing of one application of emulsified asphalt and one or more sizes of aggregate as specified to an existing pavement to seal and rejuvenate the surface and to produce a uniform Roadway surface with acceptable nonskid characteristics.

5-02.2 Materials

The following new paragraph is inserted after the second paragraph:

Each source of aggregate for bituminous surface treatment shall be evaluated separately for acceptance in accordance with Section 3-04.

The second and fourth paragraphs (after implementing the preceding Amendment) are deleted.

5-02.3(1) Equipment

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

A temperature measuring device shall be capable of reporting the temperature of emulsified asphalt in the tank.

5-02.3(2)A New Construction

The fourth and fifth paragraphs are revised to read:

Immediately before the first application of emulsified asphalt, the Roadway surface shall be in the following condition: firm and unyielding, damp, free from irregularities and material segregation, and true to line, grade, and cross-section.

No traffic will be allowed on the prepared surface until the first application of emulsified asphalt and aggregate has been completed.

5-02.3(3) Application of Asphalt and Aggregate

The table "Application Rate" is revised to read:

Application Rate			
	Undiluted Emulsified Asphalt (gal. per sq. yd.) Applied	**Aggregate Size**	**Aggregate Application Rate (lbs. per sq. yd.)**
New Construction			
First Application	0.35-0.65	½ inch- No. 4 or ¾ inch-½ inch	25-45
Second Application	0.35-0.60	½ inch- No. 4	25-40
Choke Stone	N/A	No. 4 - 0	4-6
Seal Coats			
⅝ inch – No. 4 Choke Stone	0.40-0.65	⅝ inch- No. 4 No. 4 - 0	25-45 4-6
½ inch – No. 4 Choke Stone	0.35-0.55	½ inch- No. 4 No. 4 - 0	20-35 4-6
⅜ inch – No. 4	0.35-0.55	⅜ inch- No. 4	20-30
Choke Stone	N/A	No. 4 - 0	4-6

The table "Pavement Sealing" is deleted.

The second paragraph is revised to read:

> The Project Engineer will determine the application rates. The second application of emulsified asphalt shall be applied the next day, or as approved by the Project Engineer.

The second to last paragraph is revised to read:

> Before application of the fog seal, all surfaces shall be thoroughly cleaned of dust, soil, pavement grindings, and other foreign matter. The fog seal emulsified asphalt shall be CSS-1 or CSS-1h diluted with water at a rate of one part water to one part emulsified asphalt unless otherwise approved by the Project Engineer. The fog seal shall be uniformly applied to the pavement at a diluted rate of 0.10 – 0.18 gal/sy. The finished application shall be free of streaks and bare spots.

5-02.3(5) Application of Aggregates

The sixth paragraph is revised to read:

> The Contractor shall apply choke stone to the Roadway with additional spreading equipment immediately following the initial rolling of the coarse aggregate unless otherwise specified in the Contract documents or specified by the Project Engineer. Excess aggregate shall be removed from the Roadway. A minimum of one pass with a pneumatic roller shall be made across the entire width of the applied choke stone.

5-02.3(7) Patching and Correction of Defects

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

> The CSS-1 or CSS-1h emulsified asphalt may be diluted with water at a rate of one part water to one part emulsified asphalt unless otherwise specified by the Project Engineer.

5-02.5 Payment

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

> The unit Contract price per mile for “Processing and Finishing” shall be full pay for all cost to perform the specified work including, blading, scarifying, processing, leveling, finishing, and the manipulation of aggregates as required

The third paragraph is revised to read

> “Emulsified Asphalt (_____)”, per ton.

The fourth paragraph is revised to read:

> The unit Contract price per ton for “Emulsified Asphalt (_____)” shall be full pay for all costs to perform the specified Work including furnishing, heating, hauling, and spreading the emulsified asphalt on the Roadway.

The sixth paragraph is revised to read:

> The unit Contract price per ton for “Asphalt for Fog Seal” shall be full pay for all costs to perform the specified Work for the fog seal.

The eighth paragraph is revised to read:

The unit Contract price per cubic yard for "Aggregate from Stockpile for BST" shall be full pay for all costs to perform the specified Work including loading, transporting, and placing the material in the finished Work.

The eleventh paragraph is revised to read:

The unit Contract price per cubic yard or per ton for "Furnishing and Placing Crushed (_____) shall be full pay for costs to perform the specified Work including furnishing, transporting, and placing the material in the finished Work.

The thirteenth paragraph is revised to read:

The unit Contract price per hour for "Additional Brooming" shall be full pay for all costs to perform the specified Work including rebrooming the Roadway.

5-04.AP5

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.

5-05.AP5
Section 5-05, Cement Concrete Pavement
August 5, 2013

5-05.3(1) Concrete Mix Design for Paving
The title in the table titled “Portland Cement Concrete Batch Volumes” is revised to read:

Portland Cement Concrete Batch Weights, per cubic yard of Concrete

5-05.3(6) Subgrade
The last paragraph in this section is deleted.

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 Cemetitious 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 ¾-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.

6-03.3(7)A Erection Methods

The following new paragraph is inserted after the second paragraph:

The Contractor may submit for approval the use of an engineered and fabricated lifting bracket bolted to the girder top flanges providing the following requirements are satisfied:

1. The lifting bracket shall be engineered and supporting calculations shall be submitted with the erection plan;

2. The calculations shall include critical stresses in the girder including local stresses in the flanges at lifting bracket locations;

3. The calculations shall include computation of the lifting bracket and associated bolt hole locations and the expected orientation of the girder during picking operation;

4. The lifting bracket shall be load tested and certified for a load at least 2 times the working load and at all angles it will be used (angle of load or rigging). Certification documentation from a previous project may be submitted for approval;

5. Bolt holes in girders added for the lifting bracket connections shall be shown in the shop plans and shall be drilled in the shop. Field drilling of bolt holes for lifting brackets will not be permitted;

6. Bolt holes in girder top flanges shall be filled with high strength bolts after erection in accordance with Section 6-02.3(17)K.

The last sentence in the fourth paragraph (after implementing the preceding Amendment) is revised to read:

The plan, including lifting bracket working drawings and calculations, 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 shall carry the engineer's seal and signature, in accordance with Section 6-02.3(16).

6-03.3(13) Fabricating Tension Members

Item number 2. is revised to read:

2. Fabricated from plate stock with the primary rolling direction of the stock parallel to the length of the member, or as shown in the Plans.

6-03.3(28)A Method of Shop Assembly

The first sentence in Item 2.C. is revised to read:

For Trusses and Girders – After the first stage has been completed, each subsequent stage shall be assembled to include: at least one truss panel or girder shop section of

the previous stage and two or more truss panels or girder shop sections added at the advancing end.

6-03.3(32) Assembling and Bolting

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

To complete a joint following one of the methods listed above, the Contractor shall fill all remaining holes of the field connection or splice place with bolts and tighten to snug-tight.

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

The Contractor shall complete the joint or connection within ten calendar days of installing the first bolt or within a duration approved by the Engineer. Any bolts inserted in an incomplete connection, either loose or tightened snug-tight, which exceed the specified duration for completing the connection, shall be subject to the following requirements:

1. Three assemblies for each size and length shall be removed from connection(s) that are to be tensioned. Rotational capacity tests shall be performed on the removed assemblies to demonstrate the assembly has sufficient lubricant to be tensioned satisfactorily.

2. Five assemblies shall be removed from the connection to establish the inspection torque.

3. In the case of tension controlled bolts, three assemblies shall be removed and tested in accordance with Section 6-03.3(33)A to verify the minimum specified tension can be achieved prior to shearing of the spline.

Assemblies removed for the purpose of rotational capacity testing, determination of the inspection torques, or verification of tension controlled bolt performance shall be replaced with new bolts at no additional expense to the Contracting Agency. To minimize the number of removed assemblies, the Contractor may combine rotational capacity testing and inspection torque determination as approved by the Engineer.

6-03.3(33) Bolted Connections

The fourth paragraph is revised to read:

All bolted connections are slip critical. Painted structures require either Type 1 or Type 3 bolts. Unpainted structures require Type 3 bolts. Bolts shall not be galvanized unless specified in the Contract documents. AASHTO M 253 bolts shall not be galvanized and shall not be used in contact with galvanized metal.

In the tenth paragraph, the first paragraph of Item number 3. is revised to read:

3. **Twist Off Type Tension Control Structural Bolt/Nut/Washer Assembly Method (Tension Control Bolt Assembly) -** Tension control bolt assemblies shall include the bolt, nut, and washer(s) packaged and shipped as a single assembly. Unless otherwise approved by the Engineer, tension control bolt assembly components shall not be interchanged for testing or installation and shall comply with all provisions of ASTM F 1852. If approved by the Engineer, the tension control bolt assembly components may be interchanged within the

same component lot for girder web splices or other locations where access to both sides of the connection is restricted.

6-03.3(33)A Pre-Erection Testing

The following new paragraph is inserted after the fourth paragraph:

Three twist off-type tension controlled bolt assemblies, per assembly lot, shall be tested in a bolt tension calibrator. The bolts shall first be tensioned to a snug tight condition. Tensioning shall then be completed by tightening the assembly nut in a continuous operation using a spline drive installation tool until the spline shears from the bolt. The bolt assembly tension shall meet the requirements of Table 1. If any specimen fails, the assembly lot is rejected.

6-03.3(33)B Bolting Inspection

The first paragraph is revised to read:

The Contractor, in the presence of the Project Engineer, shall inspect the tightened bolt using a calibrated inspection torque wrench, regardless of bolting method. The Contractor shall supply the inspection torque wrench. Inspection shall be performed within seven calendar days from the completion of each bolted connection or as approved by the Project Engineer.

6-03.3(36) Setting and Grouting Masonry Plates

Item number 2. in the second paragraph is revised to read:

2. Place steel shims under the masonry plates to position pin centers or bearings to line and grade and in relationship to each other. Steel shims shall be the size and be placed at the locations shown in the Plans;

6-03.3(39) Swinging the Span

The second and third paragraphs are revised to read:

After the falsework is released (spans swung free), the masonry plates, shoes, and keeper plates are grouted, and before any load is applied, the Contractor (or the Engineer if the Contracting Agency is responsible for surveying) shall survey elevations at the tenth points along the centerline on top of all girders and floorbeams. The Contractor shall calculate the theoretical top of girder or floorbeam flange elevations and compare the calculated elevations to the surveyed elevations. The theoretical pad or haunch depth shown in the Plans shall be increased or decreased by the difference between the theoretical and surveyed top of girder or floorbeam elevations. The soffit (deck formwork) shall be set based on the Plan bridge deck thickness and the adjusted pad or haunch depth.

The Contractor shall submit all survey data and calculations to the Engineer for review ten working days prior to placing any load, beyond the maximum five pounds per square foot of form weight allowed, on the Structure.

6-05.AP6
Section 6-05, Piling
August 6, 2012

6-05.5 Payment
The paragraph following the bid item, “Driving St. Pile”, per each is revised to read:

> The unit Contract price per each for “Driving (type) Pile (____)” shall be full pay for driving the pile to the ultimate bearing and/or penetration specified.

6-06.AP6
Section 6-06, Bridge Railings
August 6, 2012

6-06.3(2) Metal Railings
The third paragraph is revised to read:

> Anchor bolts shall be positioned with a template to ensure that bolts match the hole spacing of the bottom channels or anchorage plates.

6-07.AP6
Section 6-07, Painting
August 5, 2013

6-07.3(9)A Paint System
The first sentence in the second paragraph is revised to read:

> All paint coating components of the selected paint system shall be produced by the same manufacturer.

6-07.3(10)H Paint System
The first and second sentences in the second paragraph are revised to read:

> All paint coating components of the selected paint system shall be produced by the same manufacturer.

6-07.3(10)N Field Coating Application Methods
The first sentence is revised to read:

> The Contractor shall apply paint materials in accordance with the manufacturer’s recommendations by air or airless spray, brush, roller, or any combination of these methods unless otherwise specified.

The third sentence is revised to read:

> The Contractor shall use brushes to apply the stripe coat, to ensure complete coverage around structural geometric irregularities, and to push the paint into gaps between existing steel surfaces and around rivets and bolts.

6-07.3(10)O Applying Field Coatings
The first sentence in the sixth paragraph is revised to read:

All steel surfaces cleaned to bare metal by abrasive blast cleaning shall receive the primer coat within the same working day as the cleaning to bare metal and before any rust begins to form.

6-07.5 Payment

The third paragraph is revised to read:

The lump sum Contract price for “Cleaning and Painting - _____” shall be full pay for the Work as specified, including developing all submittals, arranging for and accommodating contact and on-site attendance by the paint manufacturer's technical representative, furnishing and placing all necessary staging and rigging, furnishing, operating and mooring barges, furnishing and operating fixed and movable work platforms, accommodating Contracting Agency inspection access, conducting the Contractor's quality control inspection program, providing material, labor, tools, and equipment, furnishing containers for containment waste, collecting and storing containment waste, collecting, storing, testing, and disposing of all containment waste not conforming to the definition in Section 6-07.3(10)F, performing all cleaning and preparation of surfaces to be painted, applying all coats of paint and sealant, correcting coating deficiencies, completing coating repairs, and completing project site cleanup.

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

Progress payments for "Cleaning and Painting - _____" will be made on a monthly basis and will be based on the percentage of the total estimated area satisfactorily cleaned and coated as determined by the Project Engineer.

6-10.AP6

Section 6-10, Concrete Barrier
August 5, 2013

6-10.3 Construction Requirements

This section is supplemented with the following:

Steel welded wire reinforcement deformed, conforming to Section 9-07.7, may be substituted in concrete barrier in place of deformed steel bars conforming to Section 9-07.2, subject to the following conditions:

1. Steel welded wire reinforcement spacing shall be the same as the deformed steel bar spacing as shown in the Standard Plans.

2. The minimum cross sectional area for steel welded wire reinforcement shall be no less than 86 percent of the cross sectional area for the deformed steel bars being substituted.

3. Development lengths and splice lengths shall conform to requirements specified in the AASHTO LRFD Bridge Design Specifications, current edition.

6-10.3(6) Placing Concrete Barriers

The first and second sentences in the first paragraph are revised to read:

Precast concrete barrier Types 2 and 4, precast single slope barrier, and transitions shall rest on a paved foundation shaped to a uniform grade and section. The foundation surface for precast concrete barrier Types 2 and 4, precast single slope barrier, and transitions shall meet this test for uniformity:

6-10.5 Payment

In the second paragraph, the bid item "Conc. Class 4000" is revised to read:

"Conc. Class 4000___"

6-12.AP6

Section 6-12, Noise Barrier Walls
August 6, 2012

6-12.3(3) Shaft Construction

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

When efforts to advance past the obstruction to the design shaft tip elevation result in the rate of advance of the shaft drilling equipment being significantly reduced relative to the rate of advance for the rest of the shaft excavation, then the Contractor shall remove the obstruction under the provisions of Section 6-12.5.

6-12.3(6) Precast Concrete Panel Fabrication and Erection

The second sentence in item number 3 is deleted.

6-12.5 Payment

This section is supplemented with the following:

"Removing Noise Barrier Wall Shaft Obstructions", estimated.

Payment for removing obstructions, as defined in Section 6-12.3(3), will be made for the changes in shaft construction methods necessary to remove the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified in Section 1-09.6. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Removing Noise Barrier Wall Shaft Obstructions" in the bid proposal to become a part of the total bid by the Contractor.

If the shaft construction equipment is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations. If labor is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction work estimated by the Contracting Agency within the original time of the contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. the dollar amount estimated by the Contracting Agency has been exceeded, and;

2. the Contractor shows that the obstruction removal work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

6-13.AP6

Section 6-13, Structural Earth Walls
April 1, 2013

6-13.2 Materials

In the first paragraph, the following item is inserted after the item "Aggregates for Portland Cement Concrete":

Gravel Borrow for Structural Earth Walls	9-03.14(4)

6-13.4 Measurement

In the second paragraph, "Backfill" is revised to read "Gravel borrow".

6-13.5 Payment

In this section, the bid item "Backfill for Structural Earth Wall Incl. Haul" is revised to read:

"Gravel Borrow for Structural Earth Wall incl. Haul".

6-14.AP6

Section 6-14, Geosynthetic Retaining Walls
April 1, 2013

6-14.2 Materials

The first paragraph is revised to read:

Materials shall meet the requirements of the following sections:

Portland Cement	9-01
Aggregates for Portland Cement Concrete	9-03.1
Sand	9-03.13(1)
Gravel Borrow for Structural Earth Wall	9-03.14(4)
Polyurethane Sealant	9-04.2(3)
Closed Cell Foam Backer Rod	9-04.2(3)A
Anchor Rods and Associated Nuts, Washers, and Couplers	9-06.5(1)
Reinforcing Steel	9-07
Wire Mesh for Concrete Reinforcement	9-07.7
Grout	9-20.3(4)
Construction Geosynthetic	9-33

6-14.4 Measurement

In the second paragraph, "geosynthetic retaining wall backfill" is revised to read "structural earth wall backfill".

6-14.5 Payment

In this section, the bid item "Gravel Borrow for Geosynthetic Ret. Wall Incl. Haul". Is revised to read:

"Gravel Borrow for Structural Earth Wall incl. Haul"

6-15.AP6

Section 6-15, Soil Nail Walls
January 2, 2012

6-15.2 Materials

The referenced section for the following item is revised to read:

Grout	9-20.3(4)

6-15.3(3) Submittals

Item f beneath item number 3 is revised to read:

f. Mix design and procedures for placing the grout.

6-15.3(6) Soil Nailing

This section is supplemented with the following:

The Contractor shall make and cure grout cubes once per day in accordance with WSDOT Test Method T 813. These samples shall be retained by the Contractor until all associated verification and proof testing of the soil nails has been successfully completed. If the Contractor elects to test the grout cubes for compressive strength, testing shall be conducted by an independent laboratory and shall be in accordance with the WSDOT FOP for AASHTO T106.

6-16.AP6

Section 6-16, Soldier Pile and Soldier Pile Tieback Walls
January 2, 2012

6-16.3(3) Shaft Excavation

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

When efforts to advance past the obstruction to the design shaft tip elevation result in the rate of advance of the shaft drilling equipment being significantly reduced relative to the rate of advance for the rest of the shaft excavation, then the Contractor shall remove the obstruction under the provisions of Section 6-16.5.

6-16.5 Payment

This section is supplemented with the following:

"Removing Soldier Pile Shaft Obstructions", estimated.

Payment for removing obstructions, as defined in Section 6-16.3(3), will be made for the changes in shaft construction methods necessary to remove the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once

these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified in Section 1-09.6. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Removing Soldier Pile Shaft Obstructions" in the bid proposal to become a part of the total bid by the Contractor.

If the shaft construction equipment is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations. If labor is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction work estimated by the Contracting Agency within the original time of the contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. the dollar amount estimated by the Contracting Agency has been exceeded, and;

2. the Contractor shows that the obstruction removal work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

6-17.AP6

Section 6-17, Permanent Ground Anchors
August 6, 2012

6-17.3(3) Submittals

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

The Contractor shall submit the mix design for the grout conforming to Section 9-20.3(4) and the procedures for placing the grout to the Engineer for approval.

6-17.3(7) Installing Permanent Ground Anchors

The following new paragraph is inserted after the sixth paragraph:

The Contractor shall make and cure grout cubes once per day in accordance with WSDOT Test Method T 813. These samples shall be retained by the Contractor until all associated verification, performance and proof testing of the permanent ground anchors has been successfully completed. If the Contractor elects to test the grout cubes for compressive strength, testing shall be conducted by an independent laboratory and shall be in accordance with the WSDOT FOP for AASHTO T106.

6-17.3(9) Permanent Ground Anchor Acceptance Criteria

The fourth paragraph is deleted.

6-19.3(2) Submittal

This section including title is revised to read:

Shaft Construction Submittals
The shaft construction submittal shall be comprised of the following three components: construction experience; shaft installation narrative; and shaft slurry technical assistance. The submittal shall be submitted in a PDF format to the Project Engineer a minimum of 30 calendar days prior to the start of the Work.

6-19.3(2)A Construction Experience Submittal

This section's title is revised to read:

Construction Experience

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

The Contractor shall submit a project reference list to the Project Engineer for verifying the successful completion by the Contractor of at least three separate foundation projects with shafts of diameters and depths similar to or larger than those shown in the Plans, and ground conditions similar to those identified in the Contract.

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

The Contractor shall submit a list identifying the on-site supervisors and drill rig operators potentially assigned to the project to the Project Engineer.

The first and second sentences in the last paragraph are deleted.

6-19.3(2)B Shaft Installation Narrative Submittal

This section's title is revised to read:

Shaft Installation Narrative

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

The Contractor shall submit a shaft installation narrative to the Engineer.

Item number 4. (except the table) is revised to read:

4. A slurry mix design, including all additives and their specific purpose in the slurry mix, with a discussion of its suitability to the anticipated subsurface conditions shall be submitted and include the procedures for mixing, using, and maintaining the slurry. A detailed plan for quality control of the selected slurry, including tests to be performed, test methods to be used, and minimum and/or maximum property requirements which must be met to ensure the slurry functions as intended, considering the anticipated subsurface conditions and shaft construction methods, in accordance with the slurry manufacturer's recommendations and these Special

Provisions shall be included. As a minimum, the slurry quality control plan shall include the following tests:

Item number 9. is revised to read (except the lettered items):

9. Reinforcing steel shop drawings with details of reinforcement placement, including bracing, centering, and lifting methods, and the method to ensure the reinforcing cage position is maintained during construction, including use of bar boots and/or rebar cage base plates, and including placement of rock backfill below the bottom of shaft elevation, provided the conditions of Section 6-19.3(5)D are satisfied.

   The reinforcing steel shop drawings and shaft installation narrative shall include, at a minimum:

The paragraph following item number 9 n is deleted.

The first sentence in the paragraph following item number 9 n.. (after implementing the preceding Amendment) is revised to read:

The Engineer will evaluate the shaft installation narrative for conformance with the Plans, Specifications, and Special Provisions, within the review time specified.

6-19.3(2)C Shaft Slurry Technical Assistance Submittal

This section's title is revised to read:

Shaft Slurry Technical Assistance

The second sentence in the first paragraph (except for the numbered items) is revised to read:

The Contractor shall submit the following to the Engineer:

6-19.3(4)B Minimum Level of Slurry in the Excavation

This section is revised to read:

When slurry is used in a shaft excavation the following is required:

1. The height of the slurry shall be as required to provide and maintain a stable hole to prevent bottom heave, caving, or sloughing of all unstable zones.

2. The Contractor shall provide casing, or other means, as necessary to meet these requirements.

3. The slurry level in the shaft while excavating shall be maintained above the groundwater level the greater of the following dimensions:

   a. Not less than 5 feet for mineral slurries.

   b. Not less than 10 feet for water slurries.

   c. Not less than 10 feet for synthetic slurries.

4. The slurry level in the shaft throughout all stops as specified in Section 6-19.3(3)A and during concrete placement as specified in Section 6-19.3(7) shall be no lower than the water level elevation outside the shaft.

6-19.3(4)F Slurry Disposal

This section including title is revised to read:

6-19.3(4)F Disposal of Slurry and Slurry Contacted Spoils

The Contractor shall dispose of the slurry and slurry-contacted spoils as specified in the shaft installation narrative in accordance with Section 6-19.3(2)B, item 8, and in accordance with the following requirements:

1. Water slurry with no additives may be infiltrated to an upland area within the confines of the Contracting Agency Right of Way for the project. Infiltration is allowed provided the ground-line at the disposal site is at least 5 feet above the current water table, and that disposal operations conform to the temporary erosion and sedimentation control (TESC) requirements established for this project. For the purposes of water slurry disposal, upland is defined as an area that has no chance of discharging directly to waters of the State, including wetlands or conveyances that indirectly lead to wetlands or waters of the State. Spoils in contact with this slurry may be disposed of as clean fill.

2. Synthetic slurry and water slurry with polymer-based additives shall be contained and disposed of by the Contractor at an approved facility. The Contractor shall acquire all permits or approvals necessary for disposal of the slurry and shall provide copies to the Engineer. Spoils in contact with synthetic slurry or water slurry with polymer-based additives shall be disposed of in accordance with Section 2-03.3(7)C. With approval of the Engineer, the Contractor may re-use these spoils on-site.

3. Mineral slurry may be infiltrated to a temporary sediment trap located in an upland area within the confines of the Contracting Agency Right of Way for the project. Infiltration is allowed provided the ground-line at the disposal site is at least 5 feet above the current water table, and that disposal operations conform to the temporary erosion and sedimentation control (TESC) requirements established for this project. For the purposes of mineral slurry disposal, upland is defined as an area that has no chance of discharging directly to waters of the State, including wetlands or conveyances that indirectly lead to wetlands or waters of the State. Spoils in contact with mineral slurry shall be disposed of in accordance with Section 2-03.3(7)C. With approval of the Engineer, the Contractor may re-use these spoils on-site.

7-02.AP7

Section 7-02, Culverts
August 6, 2012

7-02.2 Materials

Note 3 in the table titled, “Culvert Pipe Schedules” is revised to read:

[3]Polypropylene pipe, 12 inch to 30 inch diameters approved for Schedule A and Schedule B, 36 inch to 60 inch diameters approved for Schedule A only.

7-02.5
The bid item "Steel Rib Reinforced Polyethylene Culvert Pipe _____ In. Diam.", per linear foot is revised to read:

"St. Rib Reinf Polyethylene Culv. Pipe _____ In. Diam.", per linear foot

7-03.AP7
Section 7-03, Structural Plate Pipe, Pipe Arch, Arch, and Underpass
August 6, 2012

7-03.3(1) Foundations, General
This section is supplemented with the following:

When aluminum pipe or pipe arch is in contact with cement concrete, two coats of paint shall be applied in accordance with Section 7-08.3(2)D.

7-03.3(5) Headwalls
This section is supplemented with the following:

When aluminum pipe or pipe arch is in contact with cement concrete, two coats of paint shall be applied in accordance with Section 7-08.3(2)D.

7-04.AP7
Section 7-04, Storm Sewers
August 6, 2012

7-04.3(1)B Exfiltration Test – Storm Sewers
The fifth column title "PE[4]" is revised to read "PP[4]" from the table titled, "Storm Sewer Pipe Schedules".

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

[4]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.

7-09.AP7
Section 7-09, Water Mains
August 6, 2012

7-09.3(19)A Connections to Existing Mains
In the second paragraph, "Special Conditions" is revised to read "Special Provisions".

8-01.AP8
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 hydroseeder 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 ⅔ 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 ⅓ 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 Tacking 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.

8-02.AP8

Section 8-02, Roadside Restoration
August 5, 2013

In this section, "psiPE" is revised to read "PSIPE".

8-02.3(2) Roadside Work Plan

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

The Roadside Work Plan shall also include a copy of the approved progress schedule.

The sub paragraph titled **"Progress Schedule"** is deleted.

8-02.3(4)C Topsoil Type C

In this section, "9-14.1(2)" is revised to read "9-14.1(3)".

8-02.3(8) Planting

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

1. Non-Irrigated Plant Material
   West of the summit of the Cascade Range - October 1 to March 1.
   East of the summit of the Cascade Range - October 1 to November 15.

8-02.4 Measurement

The first sentence is revised to read:

> Topsoil, mulch and soil amendments will be measured by the acre along the grade and slope of the area covered immediately after application.

The seventh sentence is revised to read:

> Compost will be measured by the acre along the grade and slope of the area covered immediately after application.

8-02.5 Payment

The bid item "Topsoil Type _____", per cubic yard and following paragraph are revised to read:

> "Topsoil Type ____", per acre.
>
> The unit contract price per acre for "Topsoil Type ____" shall be full pay for providing the source of material for topsoil Type A and C, for pre-excavation weed control, excavating, loading, hauling, intermediate windrowing, stockpiling, weed control on stockpiles or windrows, and removal, placing, spreading, processing, cultivating, and compacting topsoil Type A, Type B, and Type C.

The bid item "Fine Compost", per cubic yard is revised to read:

> "Fine Compost", per acre.

The bid item "Medium Compost", per cubic yard is revised to read:

> "Medium Compost", per acre.

The bid item "Coarse Compost", per cubic yard and following paragraph are revised to read:

> "Coarse Compost", per acre.
>
> The unit Contract price per cubic yard for "Fine Compost", Medium Compost" or "Coarse Compost" shall be full pay for furnishing and spreading the compost onto the existing soil.

The bid item "Soil Amendment", per cubic yard and following paragraph are revised to read:

"Soil Amendment", per acre.

The unit Contract price per acre for "Soil Amendment" shall be full pay for furnishing and incorporating the mulch onto the existing soil.

The bid item "Bark or Wood Chip Mulch", per cubic yard and following paragraph are revised to read:

"Bark or Wood Chip Mulch", per acre.

The unit Contract price per acre for "Bark or Wood Chip Mulch" shall be full pay for furnishing and spreading the mulch onto the existing soil.

8-03.AP8

Section 8-03, Irrigation Systems
April 2, 2012

8-03.3(7) Flushing and Testing

The fifth paragraph is deleted.

8-04.AP8

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.

8-07.AP8

Section 8-07, Precast Traffic Curb and Block Traffic Curb
January 7, 2013

This section’s title is revised to read:

8-07 Precast Traffic Curb

8-07.1 Description

This section is revised to read:

This Work consists of furnishing and installing precast traffic sloped mountable curb or dual faced sloped mountable curb of the design and type specified in the Plans in accordance with these Specifications and the Standard Plans in the locations indicated in the Plans or as staked by the Engineer.

8-07.2 Materials

The material reference “Block Traffic Curb 9-18.3” is deleted from this section.

The referenced section for the following item is revised to read:

Paint 9-34.2

8-07.3(1) Installing Curbs

The fifth and seventh paragraphs are deleted from this section.

8-07.4 Measurement

The first paragraph is deleted from this section.

8-07.5 Payment

The following bid items are deleted from this section:

“Type A Precast Traffic Curb”, per linear foot.
“Type C Precast Traffic Curb”, per linear foot.
“Type A Block Traffic Curb”, per linear foot.
“Type C Block Traffic Curb”, per linear foot.

8-11.AP8

Section 8-11, Guardrail
August 5, 2013

8-11.2 Materials

The following material reference is deleted from this section:

Weathering Steel Beam Guardrail 9-16.8

8-11.3(1)B Erection of Rail

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

> All holes shall be painted with two coats of paint conforming to Section 9-08.1(2)B.

The fourth paragraph is revised to read:

> Galvanized steel rail plates shall be fastened to the posts with galvanized bolts, washers, and nuts of the size and kind shown in the Plans.

The last paragraph is deleted.

8-11.3(1)D Removing Guardrail and Guardrail Anchor

The first two sentences in the first paragraph are revised to read:

> Removal of the various types of guardrail shall include removal of the rail, cable elements, hardware, and posts, including transition sections, expansion sections, terminal sections and the rail element of anchor assemblies. Removal of the various types of guardrail anchors shall include removal of the anchor assembly, including concrete bases, rebar, steel tubes, and any other appurtenances in the anchor assembly.

8-11.4 Measurement

The seventh paragraph is revised to read:

> Measurement of removal of guardrail will be by the linear foot measured along the line of guardrail removed including transition sections, expansion sections, guardrail anchor rail elements and terminal sections.

8-11.5 Payment

The bid item "Weathering St. Beam Guardrail Type ____", per linear foot is deleted.

The second paragraph is revised to read:

> The unit Contract price per linear foot for "Beam Guardrail Type____", "Beam Guardrail Type 1-____ Ft. Long Post", and "Beam Guardrail Type 31-____ Ft. Long Post", shall be full payment for all costs to obtain and provide materials and perform the Work as described in Sections 8-11.3(1)A and 8-11.3(1)B, including costs for additional rail elements when nested rail is required, and when connections to concrete masonry Structures are required.

The paragraph following the bid item "Removing Guardrail Anchor", per each is revised to read:

> The unit Contract price per each for "Removing Guardrail Anchor" shall be full payment for all costs to perform the Work as described in Section 8-11.3(1)D, including rail removal, if there isn't a Bid Item for Removing Guardrail in the run of guardrail connecting to the anchor.

Section 8-12, Chain Link Fence and Wire Fence
April 2, 2012

In this Section "Engineer" is revised to read "Project Engineer".

8-12.2 Materials

This section is supplemented with the following:

Paint 9-08.1(2)B

8-12.3(1)A Posts

The words "for Type 3 and Type 4 fences" and "on Type 3 and Type 4 fences" are deleted from this section.

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

After the post is set and plumbed, the hole shall be filled with Grout Type 4.

The third sentence in the sixth paragraph is replaced with the following two sentences:

After the post is set and plumbed, the hole in the portion of the post in solid rock shall be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to leave no voids.

The seventh paragraph is deleted.

The ninth paragraph is revised to read:

Steep slopes or abrupt topography may require changes in various elements of the fence. It shall be the responsibility of the Contractor to provide all posts of sufficient length to accommodate the chain link fabric.

The tenth paragraph is revised to read:

All round posts shall have approved top caps fastened securely to the posts. The base of the top cap fitting for round posts shall feature an apron around the outside of the posts.

8-12.3(1)B Top Rail

This section's content including title is deleted and replaced with:

8-12.3(1)B Vacant

8-12.3(1)C Tension Wire and Tension Cable

This section's content including title is revised to read:

8-12.3(1)C Tension Wire

Tension Wires shall be attached to the posts as detailed in the Plans or as approved by the Engineer.

8-12.3(1)D Chain Link Fabric

The first three paragraphs are revised to read:

> Chain link fabric shall be attached after the cables and wires have been properly tensioned.
>
> Chain link fabric shall be placed on the face of the post away from the Highway, except on horizontal curves where it shall be placed on the face on the outside of the curve unless otherwise directed by the Project Engineer.
>
> Chain link fabric shall be placed approximately 1-inch above the ground and on a straight grade between posts by excavating high points of ground. Filling of depressions will be permitted only upon approval of the Project Engineer.

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

> The top and bottom edge of the fabric shall be fastened with hog rings to the top and bottom tension wires as may be applicable, spaced at 24-inch intervals.

8-12.3(1)E Chain Link Gates

The third paragraph is deleted.

8-12.3(2)A Posts

In the second paragraph, “commercial” is deleted.

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

> After the post is set and plumbed, the hole shall be filled with Grout Type 4.

The fourth sentence in the sixth paragraph is replaced with the following two sentences:

> After the post is set and plumbed, the hole in the portion of the post in solid rock shall be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to leave no voids.

The tenth paragraph is revised to read:

> Where the new fence joins an existing fence, the 2 shall be attached in a manner satisfactory to the Project Engineer, and end or corner posts shall be set as necessary.

The eleventh paragraph is deleted.

8-12.5 Payment

The paragraph following the item “Chain Link Fence Type ____”, per linear foot is revised to read:

> The unit Contract price per linear foot for “Chain Link Fence Type ___” shall be full payment for all costs for the specified Work including brace post installation and all other requirements of Section 8-12 for Chain Link Fence, unless covered in a separate Bid Item in this Section.

The following paragraph is inserted after the item “End, Gate, Corner, and Pull Post for Chain Link Fence”, per each:

> The unit Contract price per each for “End, Gate, Corner, and Pull Post for Chain Link Fence” shall be full payment for all costs for the specified Work.

The following paragraph is inserted after the item “Single 6 Ft. Chain Link Gate”, per each:

> The unit Contract price per each for “Double 14 Ft. Chain Link Gate”, “Double 20 Ft. Chain Link Gate”, and “Single 6 Ft. Chain Link Gate”, shall be full payment for all costs for the specified Work.

The paragraph following the item “Wire Fence Type ____”, per linear foot is revised to read

> The unit Contract price per each for “Wire Fence Type ____” shall be full payment for all costs for the specified Work including payment for clearing of the fence line.

The following paragraph is inserted after the item “Double Wire Gate 20 Ft. Wide”, per each:

> The unit contract price per each for “Single Wire Gate 14 Ft. Wide” and “Double Wire Gate 20 Ft. Wide” shall be full payment for all costs for the specified Work.

The paragraph following the item “Access Control Gate”, per each is revised to read:

> The unit contract price per each for “Access Control Gate” shall be full payment for all costs to perform the specified Work.

8-15.AP8

Section 8-15, Riprap
April 2, 2012

8-15.1 Description

The second paragraph is revised to read:

> Riprap will be classified as heavy loose riprap, light loose riprap, and hand placed riprap.

8-20.AP8

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 sections 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(5)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 ¾ 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 ½-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, jacking, 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 Engineers 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 manufacture'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.

Conductor	Pounds
8	132
6	210
4	334
3	421
2	531
1	669
1/0	845
2/0	1,065
3/0	1,342
4/0	1,693
250Kcmil	2,000

500Kcmil	4,000

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.

8-21.AP8

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. ___".

8-22.AP8

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.

8-25.AP8

Section 8-25, Glare Screen
April 9, 2012

In this section, "tension cable" and "cable" are deleted.

8-25.3(3) Posts

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

Posts shall be constructed in accordance with the Standard Plans and applicable provisions of Section 8-12.3(1)A.

The last paragraph is revised to read:

All round posts for Type 1 Design B and Type 2 glare screen shall be fitted with a watertight top securely fastened to the post. Line posts shall have tops designed to carry the top tension wire.

8-25.3(5) Tension Cables
This sections content including title is deleted:

8-25.3(6) Fittings, Attachments, and Hardware
This sections content including title is deleted.

8-29.AP8
Section 8-29, Wire Mesh Slope Protection
January 7, 2013

This section is deleted in its entirety and replaced with the following:

8-29 Wire Mesh Slope Protection

8-29.1 Description
This Work consists of furnishing and installing the anchors and the wire mesh slope protection in accordance with these Specifications and the details shown in the Plans and in conformity with the lines and dimensions shown in the Plans or established by the Engineer.

8-29.2 Materials
Materials shall meet the requirements of Section 9-16.4.

8-29.3 Construction Requirements
8-29.3(1) Submittals
The Contractor shall submit a wire mesh slope protection plan to the Project Engineer a minimum of seven calendar days prior to beginning the work. The wire mesh slope protection plan shall include the following:

1. Plan sheets for anchor layout and installation, and the equipment and process used to confirm the capacity of the constructed anchors including the calibration data for the stressing devices used to proof test the anchors, as completed by an independent testing laboratory within 60 calendar days of the wire mesh slope work.

2. Working drawings for the temporary yoke or load frame to be used for anchor proof testing in accordance with Section 6-01.9.

3. Plans and details for assembling wire mesh and erecting the assembled mesh on the slope.

All costs for the Work required for Submittals shall be included in the unit Bid price detailed in Section 8-29.5.

8-29.3(2) Anchors
The Contractor shall install anchors of the type shown in the Plans and in conformance with the layout shown in the Wire Mesh Protection Plan as described in Section 8-29.3(1). The spacing and number of the anchors and wire ropes as shown in the Plans are approximate only, and upon review of the wire mesh slope protection plan, the

Engineer may arrange the spacing to better hold the wire mesh against the slope. Backfill material shall be thoroughly compacted with a mechanical compactor.

The Contractor shall proof test up to 25 percent of the anchors in vertical pullout to the minimum allowable anchor capacity specified in the Plans. Proof testing of anchors shall be performed against a temporary yoke or load frame. No part of the temporary yoke or load frame shall bear within three feet of the anchor being tested. For vertical pullout proof testing, an anchor is acceptable if it sustains the specified capacity for 10 minutes with no loss of load. Anchors that fail this criterion shall be replaced and retested. If more than three anchors fail, the Contractor shall proof test all anchors.

8-29.3(3) Wire Rope

All wire rope loops shall include a thimble. No wire rope splicing will be allowed.

8-29.3(4) Wire Mesh

The wire mesh shall be fastened to the completed wire rope assembly as shown in the Plans. High tensile steel fasteners on the vertical seams shall be staggered across width of the seam. Horizontal splices joining 2 rolls of mesh shall be made by overlapping the mesh approximately 3 feet and either weaving 3 rows of lacing wires through every mesh opening or using 4 rows of high tensile steel fasteners placed on approximately 3-inch spacing. All top and bottom laps shall be made by folding the mesh to the outside, away from the slope, to avoid the possibility of falling material hanging up in the folds. The bottom of the mesh shall be located as shown in the Plans. The ends of all lacing wires shall be secured to the mesh with a minimum of 1½-turns.

The wire mesh shall not be tensioned in any direction, but is to remain loose so as to increase its dampening effect on rolling rocks. The Contractor shall use care in the handling and installing of the wire mesh and wire rope. Any mesh or wire rope damaged due to the Contractor's operations shall be replaced by the Contractor at no expense to the Contracting Agency.

8-29.4 Measurement

Measurement of anchors will be per each for the completed anchor. Anchor types will not be differentiated.

Wire mesh slope protection will be measured by the square foot of wire mesh erected on the slope. There will be no deduction made for overlapping the wire mesh material as required for splices or for coverage due to variations in the slope or ground conditions.

8-29.5 Payment

Payment will be made in accordance with Section 1-04.1, for each of the following Bid items that are included in the Proposal:

"Wire Mesh Slope Protection Anchor", per each.
The unit Contract price per each for "Wire Mesh Slope Protection Anchor" shall be full payment for all costs for the Work described in Sections 8-29.3(1) and 8-29.3(2).

"Wire Mesh Slope Protection", per square foot
The unit Contract price per square foot for "Wire Mesh Slope Protection" shall be full payment for all costs for the Work described in Section 8-29.3(3) and 8-29.3(4).

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:

Cationic Emulsified Asphalt Table

Grade	Type AASHTO Test Method	Rapid Setting				Medium Setting						Slow Setting			
		CRS-1		CRS-2		CMS-2S		CMS-2		CMS-2h		CSS-1		CSS-1h	
		Min.	Max	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Tests on Emulsified Asphalts:															
Viscosity SFS @ 77ºF (25°C)	T 59											20	100	20	100
Viscosity SFS @ 122ºF (50°C)	T 59	20	100	150	400	50	450	50	450	50	450				
Storage stability test 1 day %	T 59		1		1		1		1		1		1		1
Demulsibility 35 ml															
0.8% sodium dioctyl															
sulfosuccinate, %[a]	T 59	40		40											
Particle charge test	T 59	Pos		Pos		Pos		Pos		Pos		Pos[b]		Pos[b]	
Sieve	T 59		0.10		0.10		0.10		0.10		0.10		0.10		0.10

Test, %															
Cement mixing test, %	T 59												2.0		2.0
Distillation:															
Oil distillate by vol. of emulsions %	T 59		3	1.5	3		20		12		12				
Residue, %	T 59	60		65		60		65		65		57		57	
Tests on residue from distillation tests:															
Penetration, 77ºF (25°C)	T 49	100	250	100	250	100	250	100	250	40	90	100	250	40	90
Ductility, 77ºF (25°C) 5 cm/min., cm	T 51	40		40		40		40		40		40		40	
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, 39.2ºF, 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).

9-03.AP9
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:

Vacant

9-03.8(4) Blending Sand
This sections including title is revised to read:

Vacant

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:

	Geosynthetic Reinforcement	Metallic Reinforcement
Sieve Size	**Percent Passing**	**Percent Passing**
4		99-100
2		75-100
1 ¼ “ [1]	99-100	
1”	90-100	
No. 4	50-80	50-80
No. 40	30 max.	30 max.
No. 200	7.0 max.	7.0 max.
Sand Equivalent	50 min.	50 min.

All percentages are by weight

Property	Test Method	Geosynthetic Reinforcement Requirements	Metallic Reinforcement Requirements
Los Angeles Wear 500 rev.	AASHTO T 96	35 percent max.	35 percent max
Degradation Factor	WSDOT Test Method T 113	15 min.	15 min.
Resistivity	WSDOT Test Method T 417		3,000 ohm-cm, min.
pH	WSDOT Test Method 113	4.5-9	5-10
Chlorides	AASHTO T 291		100 ppm max.
Sulfates	AASHTO T 290		200 ppm max.

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.

9-04.AP9

Section 9-04, Joint And Crack Sealing Materials
January 7, 2013

9-04.2 Joint Sealants

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

9-04.2(3) Polyurethane Sealant

Polyurethane sealant shall conform to ASTM C 920 Type S Grade NS Class 25 Use M.

Polyurethane sealant shall be compatible with the closed cell foam backer rod. When required, compatibility characteristics of sealants in contact with backer rods shall be determined by Test Method ASTM C 1087.

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

Closed cell foam backer rod for use with polyurethane sealant shall conform to ASTM C 1330 Type C.

9-04.10 Crack Sealing – Rubberized Asphalt

This section is deleted.

9-04.11 Butyl Rubber and Nitrile Rubber

This sections number is revised to read:

9-04.10

9-05.AP9

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.

9-06.AP9
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".

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.

9-10.AP9
Section 9-10, Piling
April 2, 2012

9-10.4 Steel Pile Tips and Shoes
In the first paragraph "ASTM A 148 Grade 60-90" is revised to read "ASTM A 148 Grade 90-60".

9-13.AP9

Section 9-13, Riprap, Quarry Spalls, Slope Protection, & Rock for Erosion and Scour Protection and Rock Walls
April 1, 2013

9-13.5(1) Semi-Open Concrete Masonry Units Slope Protection

In this section, “ASTM C 90” is revised to read “ASTM C 1319”.

9-14.AP9

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:

Heavy Metals	EPA 6020A Total Metals	Antimony – < 4 mg/kg Arsenic – < 6 mg/kg Barium – < 80 mg/kg Boron – < 160 mg/kg Cadmium – < 2 mg/kg Total Chromium – < 4 mg/kg Copper – < 10 mg/kg Lead – < 5 mg/kg Mercury – < 2 mg/kg Nickel – < 2 mg/kg Selenium – < 10 mg/kg Strontium – < 40 mg/kg Zinc – < 30 mg/kg
Water Holding Capacity	ASTM D 7367	800 percent minimum

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:

Sieve Size	Percent Passing	
	Minimum	Maximum
1"	100	
5/8"	90	100
¼"	75	100

Note Maximum particle length of 4 inches.

Medium compost shall meet the following gradation:

Sieve Size	Percent Passing	
	Minimum	Maximum
1"	100	
5/8"	85	100
¼"	70	85

Note Maximum particle length of 4 inches. Medium compost shall have a carbon to nitrogen ration (C:N) between 18:1 and 35:1. The carbon to nitrogen ration 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:

Sieve Size	Percent Passing	
	Minimum	Maximum
2"	100	
1"	90	100
¾"	70	100
¼"	40	60

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

Properties	ASTM Test Method	Requirements for Slopes Steeper than 3:1
Protecting Slopes from Rainfall-Induced Erosion	ASTM D 6459 Soil tested shall be sandy loam as defined by the NRCS** Soil Texture Triangle	C factor = 0.04 maximum for cumulative R-Factor<231

Mass Per Unit Area	ASTM D 6475	7.6 oz./sq. yd. minimum
Light Penetration	ASTM D 6567	44 % maximum
Tensile Strength MD x XD*	ASTM D 6818	10.0 x 6.0 pounds/inch minimum
Tensile Elongation MD x XD*	ASTM D 6818	38% x 33% maximum
*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

Properties	ASTM Test Method	Slope Flatter than 3:1 Requirements
Protecting Slopes from Rainfall-Induced Erosion	ASTM D 6459 Soil tested shall be sandy loam as defined by the NRCS** Soil Texture Triangle	C factor = 0.15 maximum for cumulative R-Factor<231
Mass Per Unit Area	ASTM D 6475	7.6 oz./sq. yd. minimum
Light Penetration	ASTM D 6567	40% maximum
Tensile Strength MD x XD*	ASTM D 6818	6.5 x 2.3 pounds/inch minimum
Tensile Elongation MD x XD*	ASTM D 6818	38% x 33% maximum
*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

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

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:

Biodegradable Check Dams	Materials
Wattle Check Dam	9-14.5(5)
Compost Sock Check Dam	9-14.5(6)
Coir Log Check Dam	9-14.5(7)

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”.

9-15.AP9

Section 9-15, Irrigation System
April 1, 2013

9-15.1(2) Polyvinyl Chloride Pipe and Fittings
In the first paragraph, “ASTM D 1784” is revised to read “ASTM D 1785”.

9-16.AP9

Section 9-16, Fence and Guardrail
August 5, 2013

9-16.1(1)A Post Material for Chain Link Fence
The first paragraph is revised to read:

> Except as noted otherwise, post material shall conform to the requirements of AASHTO M 181, Type 1 (zinc-coated steel), Grade 1 or 2, and shall include all round and roll-formed material (line posts, brace posts, end posts, corner posts, and pull posts).

The last sentence in the fourth paragraph is deleted.

9-16.1(1)C Tension Wire and Tension Cable
This section including title is revised to read:

> **9-16.1(1)C Tension Wire**
> Tension wire shall meet the requirements of AASHTO M 181. Tension wire galvanizing shall be Class 1.

9-16.1(1)D Fittings and Hardware
The second sentence in the first paragraph is deleted.

The last paragraph is deleted.

9-16.1(2) Approval
This section is deleted.

9-16.2(2) Approval
This section is deleted.

9-16.3(2) Posts and Blocks
The first sentence in the first paragraph is revised to read:

> Posts and blocks may be of creosote, pentachlorophenol, waterborne chromate copper arsenate (CCA), or ammoniacal copper zinc arsenate (ACZA), treated timber, or galvanized steel (galvanized steel posts only – no blocks).

The following reference is deleted from the third paragraph:

ACA	0.50 lbs. pcf

The sixth paragraph is deleted.

9-16.4(2) Wire Mesh

This section is revised to read:

The galvanized wire mesh shall be a Style 1 double-twisted hexagonal mesh conforming to ASTM A 975 with 8 by 10 opening, except when a colorized, polyvinyl chloride coating is required then the Style shall be a Style 3.

The longitudinal edges of the wire mesh fabric shall have knuckled selvedges with continuous selvedge wire as specified in ASTM A 975.

9-16.4(3) Wire Rope

This section is revised to read:

Wire rope shall be ¾- inch-diameter, independent wire rope class (IWRC) 6x19, extra improved plow steel (EIP) wire rope galvanized in accordance with ASTM A1023. Each lot of wire rope shall be accompanied by a Manufacturer's Certificate of Compliance, a mill certificate, and a test report showing the wire rope meets the minimum breaking force requirements of ASTM A 1023.

9-16.4(4) Hardware

This section is revised to read:

Weldless steel rings shall be drop-forged steel and heat treated after forging; have a single pull, working load limit of at least 10,000 lbs; and meet performance requirements of Federal Specification RR-C-271D Type VI.

Thimbles required for all wire rope loops shall be standard weight, galvanized, and meet performance requirements of Federal Specification FF-T-276b Type II.

Wire rope clips shall have drop-forged steel bases, be galvanized, and meet performance requirements of Federal Specification FF-C-450 Type I Class 1.

9-16.4(5) Hog Rings and Tie Wire

This section including title is revised to read:

9-16.4(5) Fasteners and Lacing Wire

Fasteners shall consist of 11 gauge high tensile steel. Lacing wire shall consist of 9 gauge, zinc-coated steel wire conforming to ASTM A 641.

9-16.4(6) Grout

This section including title is deleted.

9-16.4(7) Anchor

This section including title and section number is revised to read:

9-16.4(6) Ground Anchors

Threaded bar ground anchors shall be deformed, continuously threaded, steel reinforcement bars conforming to either Section 9-07.2 or Section 9-07.11. Threaded bar ground anchors shall be either epoxy-coated in accordance with Sections 6-02.3(24)H and 9-07.3 or galvanized after fabrication in accordance with ASTM A 767 Class I.

Hollow-core anchor bars shall have continuous threads/deformations and be fabricated from steel tubing conforming to ASTM A 519. Couplers and nuts shall provide 100% of the guaranteed minimum tensile strength of the hollow core anchor bars.

Bearing plates shall conform to ASTM A 572 Grade 50 and shall be galvanized after fabrication in accordance with AASHTO M 111. Nuts shall conform to either AASHTO M 291 Grade B, hexagonal, or Section 9-07.11. Nuts shall be galvanized after fabrication in accordance with AASHTO M 111 for plate washers and AASHTO M 232 for all other hardware.

Grout for ground anchors shall be Grout Type 2 for Nonshrink Applications, conforming to Section 9-20.3(2).

Concrete for soil anchor deadmen shall be either commercial concrete conforming to Section 6-02.3(2)B or Class 3000 conforming to Section 6-02.

Steel reinforcing bars for soil anchor deadmen shall conform to Section 9-07.2, and shall be epoxy-coated in accordance with Sections 6-02.3(24)H and 9-07.3.

9-16.6(3) Posts

This section is revised to read:

Line posts for Types 1 and 2 glare screens shall be 2 inch inside diameter galvanized steel pipe with a nominal weight of 3.65 pounds per linear foot. End, corner, brace, and pull posts for Type 1 Design A and B and Type 2 shall be 2 ½ inch inside diameter galvanized steel pipe with a nominal weight of 5.79 pounds per linear foot. Intermediate pull posts (braced line posts) shall be as specified for line posts.

The base material for the manufacture of steel pipes used for posts shall conform to the requirements of ASTM A 53, except the weight tolerance on tubular posts shall be applied as provided below.

Posts provided for glare screen will have an acceptance tolerance on the weight per linear foot, as specified, equal to plus or minus 5 percent. This tolerance will apply to each individual post.

All posts shall be galvanized in accordance with AASHTO M 181 Section 32. The minimum average zinc coating is per square foot of surface area. This area is defined as the total area inside and outside. A sample for computing the average of mass of coating is defined as a 12-inch piece cut from each end of the galvanized member.

9-16.6(5) Cable

This section including title is revised to read:

9-16.6(5) Vacant

9-16.6(6) Cable and Tension Wire Attachments

This section including title is revised to read:

9-16.6(6) Tension Wire Attachments

All tension wire attachments shall be galvanized steel conforming to the requirements of AASHTO M 232 unless otherwise specified. Eye bolts shall have either a shoulder or a back-up nut on the eye end and be provided with an eye nut where needed or standard hex nut and lock washer ⅜-inch diameter for tension wire and of sufficient length to fasten to the type of posts used. Turnbuckles shall be of the shackle end type, ½ inch diameter, with standard take-up of 6 inches and provided with ⅜ inch diameter pins.

9-16.6(9) Fabric Bands and Stretcher Bars

The first paragraph is revised to read:

Fabric bands shall be ⅛ inch by 1inch nominal. Stretcher bars shall be $^{3}/_{16}$ inch by ¾ inch nominal or $^{5}/_{16}$ inch diameter round bar nominal. A $^{5}/_{16}$ inch diameter round stretcher bar shall be used with Type 1. Nominal shall be construed to be the area of the cross section of the shape obtained by multiplying the specified width by thickness. A variation of minus 5-percent from this theoretical area shall be construed as "nominal" size. All shall be galvanized to meet the requirements of ASTM F 626.

9-16.7 Vacant

This section including title is deleted in its entirety.

9-16.8 Weathering Steel Beam Guardrail

This section including title is deleted in its entirety.

9-18.AP9

Section 9-18, Precast Traffic Curb and Block Traffic Curb
August 6, 2012

This section's title is revised to read:

9-18 Precast Traffic Curb

9-18.3 Block Traffic Curb

This section including title is revised to read:

9-18.3 Vacant

9-20.AP9

Section 9-20, Concrete Patching Material, Grout, and Mortar
January 2, 2012

9-20.3(3) Grout Type 3 for Unconfined Bearing Pad Applications

This section is revised to read:

Grout Type 3 shall be a prepackaged material meeting the requirements of ASTM C 928 – Table 1, R2 Concrete or Mortar.

9-20.3(4) Grout Type 4 for Multipurpose Applications

In the third sentence of the first paragraph, the reference "0.40" is revised to read "0.45".

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.

9-26.AP9

Section 9-26, Epoxy Resins
August 5, 2013

9-26.3(1)A Traffic Bearing Applications
The first sentence in the first paragraph is revised to read:

> Epoxy grout/mortar/concrete for traffic bearing applications shall have a 7-day compressive strength of not less than 4,000 psi when tested in accordance with ASTM C 579.

9-28.AP9

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”.

9-29.AP9

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 nonspecification Work or unacceptable quality control practices, the Inspector will advise the plant manager. If the corrective action is not acceptable to the Engineer, the 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 inhibiters 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 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 box shall contain ten studs located near the centerline of the frame and

box wall. The studs shall be placed one anchor in each corner, one at the middle of each width and two equally spaced on each length of the box.

Materials for Type 1, 2, and 8 Concrete Junction Boxes shall conform to the following:

Materials	Requirement
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Fiber Reinforcing	ASTM C 1116, Type III
Lid	ASTM A 786 diamond plate steel
Slip Resistant Lid	ASTM A 36 steel
Frame	ASTM A 786 diamond plate steel or ASTM A36 steel
Slip Resistant Frame	ASTM A 36 steel
Lid Support	ASTM A 36, or ASTM A1011 Grade SS
Handle & Handle support	ASTM A 36 steel or ASTM A1011 Grade CS or SS
Anchors (studs)	Section 9-06.15
Bolts, Studs, Nuts, Washers	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
Locking and Latching Mechanism Hardware and Bolts	In accordance with approved shop drawings

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:

Materials	Requirement
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Lid	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.
Frame and stiffener plates	ASTM A 572 grade 50 or ASTM A 588, both with min. CVN toughness of 20 ft-lb at 40

	degrees F
Handle	ASTM A 36 steel or ASTM A 1011 Grade CS or SS
Anchors (studs)	Section 9-06.15
Bolts, Studs, Nuts, Washers	ASTM F 593 or A 193, Type 304 or 316, or Stainless steel grade 302, 304, or 316 in accordance with approved shop drawing
Hinges and Locking and Latching Mechanism Hardware and Bolts	In accordance with approved shop drawings

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 inhibiters 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:

Materials	Requirements
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Lid	ASTM A 786 diamond plate steel
Slip Resistant Lid	ASTM A 36 Steel
Frame	ASTM A 786 diamond plate steel or ASTM A 36
Slip Resistant Frame	ASTM A 36 Steel
Lid Support	ASTM A 36 Steel, or ASTM A 1011 Grade SS
Handle & Handle Support	ASTM A 36 steel or ASTM A 1011 Grade CS or SS
Anchors (studs)	Section 9-06.15

Bolts, Studs, Nuts, Washers	ASTM F593 or A 193, type 304 or 316, or Stainless steel grade 302, 304, 316 per approved shop drawing
Hinges and Locking Mechanism Hardware and Bolts	In accordance with approved shop drawings

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:

Materials	Requirements
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Cover	Section 9-05.15(1)
Ring	Section 9-05.15(1)
Anchors (studs)	Section 9-06.15
Bolts, Nuts, Washers	ASTM F 593 or A 193, Type 304 or 316, or Stainless steel grade 302, 304, 316 in accordance with approved shop drawing

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:

2070	2070E	2070N1
2070-5 VME cage		
2070-1E CPU Card	2070-1E CPU Card	2070-1E CPU Card
2070-3B Front Panel	2070-3B Front Panel	2070-3B Front Panel
2070-4 Power Supply	2070-4 Power Supply	2070-4 Power Supply
2070-2A Field I/O	2070-2A Field I/O	2070-2B Field I/O
X	X	2070-8 Interface

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

Conformance Group	Reference
Configuration	1201 2.2
Time Management	
Time Base Event Schedule	
Report	2.5
Phase	1202 2.2
Rings	2.8
Detector	2.3
Unit	2.4
Preempt	2.7
Time Base	2.6
Coordination	2.5
Channel	2.9
Overlaps	2.10

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.

Object Name	Object ID	Minimum Requirements
Global Configuration	moduleType	Value 3

Database Management	dBCreateTransaction	All Values
	dBErrorType	All values
Time Management	globslDaylightSavings	Values 2 and 3
Timebase Events Schedule	maxTimeBaseScheduleEntries	16
	MaxDayPlans	15
	MaxDayEvents	10
Report	maxEventLogCongifs	50
	MventConfigMode	Values 2 thru 5
	mventConfigAction	Values 2 and 3
	MaxEventLogSize	255
	MaxEventClasses	7
PMPP	maxGroupAddress	2
ASC Phase	maxPhases	8
	pPhaseStartp	Values 2 thru 6
	phaseOptions	All Values
	maxPhaseGroups	1
Rings	maxRings	2
	maxSequences	16
Detector	maxVehicleDetectors	64
	vehicleDetectorOptions	All Values
	maxPedestrianDetector	8
Unit	unitAutoPedestrianClear	All Values
	unitControlStatus	All Values
	unitFlashStatus	All Values
	unitControl	All Values
	maxAlarmGroups	1
Special Function	maxSpecialFunctionsOutputs	8
Coordination	coordCorrectionMode	Values 2 thru 4
	coordMaximumMode	Values 2 thru4
	coordForceMode	Values 2 and 3
	maxPatterns	48
	patternTableType	Either 2,3 or 4
	maxSplits	16
	splitMode	Values 2 thru 7
	localFreeStatus	Values 2 thru 11
Time Base	maxTimebaseAscAction	48
Preempt	maxPreempts	4
	preemptControl	All Values
	preemptState	Values 2 thru 9
Overlaps	maxOverlaps	4
	overlapType	Value 2 and 3
	maxOverlapstatusGroup	1
Channels	maxChannels	16
	channelControlGroup	Values 2 thru 4
	channelFlash	Value 0,2,4,6,8,10,12 and 14
	channelDim	Values 0 thru 15
	maxChannelStatusGroup	2

TS 2 Port 1	maxPortAddresses	18
	port1Table	Values 2 and 3

* 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 programed 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 suppresser installed at the input power point. Interference suppressers 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.

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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)

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 Nutral.

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 door, 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 doorstop 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 railing.

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:

Case size	T 1-¾
Viewing angle	50° minimum
Brightness	8 Milli candelas

   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:

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

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 a++++s 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 Diods (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:

   a. Wattage (Maximum): Portland Orange Raised Hand, 15 watts: Lunar White 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.

9-34.AP9

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 Metharcrylate

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

98:2 Formulations Type D – Liquid Cold Applied Methyl Methacrylate												
Property	D-1		D-2		D-3		D-4		D-5		D-6	
Test Method	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.

9-36.AP9

Section 9-36, Shaft-Related Materials
August 5, 2013

9-36.1(1) Permanent Casing

This section is revised to read:

Permanent casing shall be of steel base metal conforming to ASTM A 36, ASTM A 252 Grades 2 or 3, ASTM A 572, or ASTM A 588.

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INTRODUCTION TO THE SPECIAL PROVISIONS

(July 31, 2007 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 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 date of the GSP and its source, as follows:

(July 11, 2011 APWA GSP)
(April 4, 2011 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 CITY OF FIFE Design & Construction Standards and Specifications 2012 Edition

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

DIVISION 1
GENERAL REQUIREMENTS

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1-02 Bid Procedures and Conditions

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.

1-03 Award and Execution of Contract

1-03.4 Contract Bond

Section 1-03.4 is supplemented with the following:

(June 27, 2011 WSDOT GSP)
Release of Contract Bond will be 60 days following Contracting Agency Final Acceptance of Contract, 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.

1-06 Control of Material

Buy America
Section 1-06 is supplemented with the following:

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

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

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

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

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

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

The following are considered to be steel manufacturing processes:

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

a. Open hearth furnace.

b. Basic oxygen.

c. Electric furnace.

d. Direct reduction.

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

3. Fabrication of the products.

a. Spinning wire into cable or strand.

b. Corrugating and rolling into culverts.

c. Shop fabrication.

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

1-07 Legal Relations and Responsibilities to the Public

1-07.2 State Sales Tax

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

1-07.2 State Sales Tax

(June 27, 2011 APWA GSP)

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

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

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

1-07.2(1) State Sales Tax — Rule 171

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

1-07.2(2) State Sales Tax — Rule 170

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

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

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

1-07.2(3) Services

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

1-07.9 Wages

General

(April 1, 2013)
Section 1-07.9(1) is supplemented with the following:

(January 8, 2013 WSDOT GSP)

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 WSDOT GSP)
Application of Wage Rates for the Occupation of Landscape Construction
State prevailing wage rates for public works contracts are included in this contract and show a separate listing for the occupation:

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

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

Laborers with the occupation description, Landscaping or Planting, or

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

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

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

1-07.11 Requirements for Nondiscrimination

Section 1-07.11 is supplemented with the following

(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 Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.

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

Women - Statewide

Timetable	Goal
Until further notice	6.9%

Minorities - by Standard Metropolitan Statistical Area (SMSA)

Spokane, WA:
SMSA Counties:
Spokane, WA 2.8
WA Spokane.
Non-SMSA Counties 3.0
WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.

Richland, WA
SMSA Counties:
Richland Kennewick, WA 5.4
WA Benton; WA Franklin.
Non-SMSA Counties 3.6
WA Walla Walla.

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

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

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

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

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

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

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

   Additional information may be found at the U.S. Department of Labor website: 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

(May 7, 2012)
Disadvantaged Business Enterprise Participation

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 apply to this Contract. As such, the requirements of this Contract are to make affirmative efforts to solicit DBEs, provide information on who submitted a Bid or quote and to report DBE participation quarterly as described elsewhere in these Contract Provisions. No preference will be included in the evaluation of Bids/Proposals, no minimum level of DBE participation shall be required as a Condition of Award and Bids/Proposals may not be rejected or considered non-responsive on that basis.

DBE Goals

No DBE goals have been assigned as part of this Contract.

Affirmative Efforts to Solicit DBE Participation

DBE firms shall have an equal opportunity to compete for subcontracts in which the Contractor enters into pursuant to this Contract.

Contractors are encouraged to:

1. Advertise opportunities for Subcontractors or suppliers in a timely and reasonably designed manner to provide notice of the opportunity to DBEs capable of performing the Work. All advertisements should include a Contract Provision encouraging participation by DBE firms. This may be accomplished through general advertisements (e.g. newspapers, journals, etc.) or by soliciting Bids/Proposals directly from DBEs.

   Note: A Directory of Certified DBE Firms denoting the Description of Work the DBE Contractors are certified to perform is available at:

   www.omwbe.wa.gov/certification/index.shtml.

   The directory provides a 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.

2. Establish delivery schedules that encourage participation by DBEs and other small businesses.

3. Participate with a DBE as a joint venture.

DBE Eligibility/Selection of DBEs for Reporting Purposes Only
Contractors may take credit for DBEs utilized on this Contract only if the firm is certified for the Work being performed.

Absent a mandatory goal, all DBE participation that is attained on this project will be considered as "race neutral" participation and shall be reported as such.

Crediting DBE Participation for Reporting Purposes

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 Contractor 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 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). The arrangement must not impact a DBE firm's ability to perform a Commercially Useful Function (CUF).

- 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.

- 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, so long as it is a distinct clearly defined portion of the Work that the DBE is performing 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 (CUF):

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 leaser'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:

1. 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.

2. 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 the OEO 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.

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 the Prime Contractor acts 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 it-self 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 to receive prior approval of a joint check arrangement will result in the joint check amount not counting towards the Prime Contractor's DBE goal.

Commercially Useful Function (CUF)

In any case, you may only take credit when the associated DBE that is determined to be performing a Commercially Useful Function (CUF).

- A DBE performs a CUF 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 CUF if its role is limited to that of an extra participant in a transaction, Contract, or project through which funds are passed.

Procedures Between Award and Execution

After award and prior to Execution of the Contract, the successful Bidder shall provide additional information as described below. Failure to comply may result in the forfeiture of the Bidder's Proposal bond or deposit.

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 correct business name, federal employer identification number (optional) and a mailing address.

The firms identified by the Prime Contractor may be contacted by Contracting Agency to solicit general information as follows:

1. Age of the firm.

2. Average of its gross annual receipts over the past three years.

Procedures after Execution

Reporting

Quarterly Report of Amounts Credited as DBE Participation Form #422-102

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 Work is accomplished or upon completion of the project, as appropriate. This is a record of payments to the DBE that the Prime Contractor is taking credit for as DBE participation. The dollars reported as specified in Crediting DBE Participation for Reporting Purposes section of this contract provision.

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.

Payment

Compensation for all costs associated with complying with the conditions of this specification shall be included in payment for the associated Contract items of Work.

Prompt Payment
Prompt payment to all Subcontractors shall be in accordance with Section 1-08.1(1) of the Contract Provisions.

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.

(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

A Micro Small Business Enterprise is a firm certified as an SBE with average gross receipts for three years less than one million dollars

1-07.12 Federal Agency Inspection

Section 1-07.12 is supplemented with the following:

(July 30, 2012 WSDOT GSP)

Required Federal Aid Provisions

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) Revised May 1, 2012 supersede any conflicting provisions of the Standard Specifications and are made a part of this Contract; provided, however, that if any of the provisions of FHWA 1273 are less restrictive than Washington State Law, then the Washington State Law shall prevail.

The provisions of FHWA 1273 included in this Contract require that the Contractor insert the FHWA 1273 in each Subcontract, together with the wage rates which are part of the FHWA 1273. Also, a clause shall be included in each Subcontract requiring the Subcontractors to insert the FHWA 1273 thereto in any lower tier Subcontracts, together with the wage rates. The Contractor shall also ensure that this section, REQUIRED FEDERAL AID PROVISIONS, is inserted in each Subcontract for Subcontractors and lower tier Subcontractors. For this purpose, upon request to the Project Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the applicable wage rates, and this Special Provision.

1-08 Prosecution and Progress

1-08.1 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 Witheld

Section 1-08.1(1) is revised to read:

(June 27, 2011 WSDOT GSP)

The following procedures shall apply to all subcontracts entered into as a part of this Contract:

Requirements

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

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

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

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

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

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

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

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

Conditions

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

Payment

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

1-08.5 Time for Completion

(March 13, 1995 WSDOT GSP)

This project shall be physically completed **within 80 working days**.

1-09 Measurement and Payment

1-09.9 Payments

1-09.9(1) Retainage

Section 1-09.9(1) content and title is deleted and replaced with the following:

(June 27, 2011 WSDOT GSP)
Vacant

DIVISION 2
EARTHWORK

2-01 Clearing, Grubbing, and Roadside Cleanup

2-01.1 Description

Section 2-01.1 is supplemented with the following:

The Contractor shall clear, grub, and clean up those areas within the right-of-way and slope easements as depicted in the contract plans or as necessary to construct the proposed improvements. This work includes protecting from harm all trees, bushes, shrubs, or other objects selected to remain and removal of bushes, tree limbs, trees or other vegetation as necessary to construct and utilize walkways. To provide drawing clarity, not all vegetation to be removed is shown on the plans or called out to be removed or trimmed. All vegetation eight feet above all finished walkway grades (within the project limits) or, and between all finished walkways and existing edge of asphalt shall be trimmed or removed.

The City shall be responsible for removing and/or relocating yard lights, trees, shrubs and other landscaping materials within the construction limits that they wish to save. The Contractor shall give property owners 10 calendar days written notice prior to removing landscaping materials, signs or decorative pieces. All landscaping, signs or decorative materials that remain within the construction limits shall be removed and disposed of or relocated by the Contractor in accordance with Section 2-01 and the Plans. The Contractor shall receive approval from the Engineer prior to removal. Removed materials shall be disposed of at site of permitted facility.

2-02 Removal of Structures and Obstructions

2-02.1 Description

Section 2-02.1 is supplemented with the following:

This work shall consist of removing and disposal of miscellaneous traffic buttons, asphalt paving, sidewalk, curb and gutter, pedestrian curb ramps, grass, soil, extruded curbing, signing and post, mailboxes and precast traffic curbing.

No waste site has been provided for disposal of material and debris. The Contractor shall make his own arrangements, and at his own expense, for disposal of all other waste materials and shall protect the Contracting Agency from any and all damages arising there from.

2-02.4 Measurement

Section 2-02.4 is supplemented with the following:

“Sawcutting”, per linear foot shall include making a full depth vertical sawcut between any existing pavement, sidewalk, curb, curb and gutter that is to remain and the portions to be removed, regardless material or depth cut.

2-02.5 Payment

Section 2-02.5 is supplemented with the following:

“Sawcutting”, per linear foot.

The Contractor will receive no extra payment for placement, removal, and disposal of temporary pavement material. Payment for this work shall be included in associated items in the Contract.

2-11 Trimming and Cleanup

Section 2-11 of the Standard Specifications is supplemented with the following:

2-11.1 Description

The scope of this section includes general finishing and cleanup including resurfacing private driveways damaged during construction to their preconstruction condition or better, AND private property restoration where disturbed by the Contractor’s activities.

2-11.2 Preconstruction Photographs

The Engineer will take preconstruction photographs or video immediately prior to initiating construction in order to provide a substantiated record of the condition of existing improvement. These photographs or video shall be considered as indicative of the nature of the original improvements in determining the adequacy or inadequacy of restoration.

2-11.3 Construction Requirements

2-11.3(2) Utility and Traffic Improvements

All utilities including but not limited to sewer, storm drains, water, gas services, telephone, cable, and power interrupted, or uprooted during construction shall be repaired, replaced, and/or restored to the satisfaction of the Contracting Agency, this includes relocation of private electrical wiring and conduit to terminate behind new sidewalks. All culverts, catch basins, storm lines, rock lined ditches, posts, sidewalks, curbs and gutter, fences and gates, traffic signs, pavement markings, and mailboxes which are removed or disturbed during construction shall be reinstalled or replaced to the satisfaction of the Contracting Agency. All costs of repairing utilities interrupted, or uprooted, replacing or repairing driveway and roadside culverts, catch basins, storm lines, rock lined ditches, posts, traffic signs, pavement marking, fences, sidewalks, curb and gutter, and mailboxes not included as part of the project work under other bid items, shall be included in the Bid Item “Trimming and Cleanup”.

2-11.3(2) Cleaning and Dressing

All areas disturbed by the Contractor including ditches and back slopes shall be smoothed, finished, and dressed to appear uniform in all respects in accordance with Section 2-11 of the Standard Specifications.

2-11.3(3) Street Cleaning

Provide street cleaning as needed to meet the requirements of the project's/ Contractor's Construction Storm Water NPDES and State Waste Discharge General permit. Clean all streets and surrounding walks of sand, debris, and excess materials caused by construction. Sweep streets at end of each day's work when required by the Engineer for dust control or mud removal operations. Provide a vacuum type sweeper designed for street cleaning. At the end of each day, the right of way and easement areas shall be restored for normal traffic, pedestrian use, and vehicle parking.

2-11.3 Construction Requirements

Section 2-11.3 shall be supplemented with the following:

It will behoove the Contractor to take every possible precaution to preserve the existing improvements. All damages to existing improvements from the Contractor's operation, whether within the road right-of-way or in private property, shall be the sole responsibility of the Contractor to remedy. All such areas shall be restored to their preconstruction equivalent to the satisfaction of the Contracting Agency

During construction and then upon completion of the work, the Contractor shall thoroughly comb and search within the right of way and easements of the project and remove any construction material thrown or discarded amongst the trees, bushes, ditches, etc., such as paint cans, cartons, broken pipe, pavement pieces, paper; bottles, etc., and as such tidy up the surrounding general area to make it neat in appearance, including removal of debris not deposited by Contractor's operation.

Paved surfaces, existing and new shall be thoroughly cleaned (power broom) upon completion of work within the area. Prior to job acceptance, all streets shall be checked and cleaned.

<u>General</u>

1. Retain all stored materials and equipment in an orderly fashion allowing maximum access to project site, not impeding drainage or traffic, and providing protection.
2. Do not allow the accumulation of scrap, debris, waste material, and other items not required for this work.
3. At least twice each month, and more often if necessary, completely remove all scrap, debris, and waste material from the job site.
4. Provide adequate storage for all materials awaiting removal from the project site, observing all requirements for fire protection and protection of the environment.

<u>Site</u>

1. At least twice each month, and more often if necessary, inspect the site and pick up all scrap, debris, and waste material. Remove all such items to the place designated for their storage until it can be disposed of.
2. Weekly, and more often if necessary, inspect all arrangements of materials stored on the site, re-stack, tidy or otherwise service all arrangements to meet the requirements above.
3. Maintain the site in a neat and orderly condition at all times so as to meet the approval of the Contracting Agency.

Final Cleaning

Prior to final inspection, remove from the job site all tools, surplus materials, equipment, scrap, debris, and waste. The Contractor shall thoroughly comb and search the surrounding area and remove any construction material thrown or discarded amongst the trees, such as cartons, broken pipe, bottles, etc., and as such tidy up the surrounding general area to make it neat in appearance, including removal of debris not deposited by the Contractor's operation. Trimming and cleanup shall be complete and to the satisfaction of the Engineer before final acceptance of the contract is made.

2-11.5 Payment

Lump sum payment for “Trimming and Cleanup” shall be full pay for all work outlined in this section.

DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS

5-04 Hot Mix Asphalt

5-04.1 Description

Section 5-04.1 is supplemented with the following:
This Work shall also consist of providing and placing hot mix asphalt for asphalt edge curbs, asphalt patching, and asphalt driveways on a prepared foundation of base course material in accordance with the plans.

5-04.3 Construction Requirements

5-04.3(3) Hot Mix Asphalt Pavers

Section 5-04.3(3) is supplemented with the following:

(April 2, 2007)
HMA Paver Segregation
The hot-mix asphalt (HMA) paver shall be equipped with a means of preventing the segregation of the coarse aggregate particles from the remainder of the mix when the mix is carried from the paver hopper back to the paver augers. The means and methods used shall be approved by the paver manufacturer and may consist of chain curtains, deflector plates, or other such devices and any combination of these.

The following specific requirements shall apply to the identified HMA pavers:

1. Blaw-Knox pavers shall be equipped with the Blaw-Knox Materials Management Kit (MMK).

2. Cedarapids pavers shall be those that were manufactured in 1989 or later.

3. Caterpillar pavers shall be equipped with deflector plates as identified in the December 2000 Service Magazine entitled "New Asphalt Deflector Kit {6630, 6631, 6640}".

Prior to the start of using the paver for placing plant mix, the Contractor shall submit for approval a full description in writing of the means and methodologies that will be used to prevent HMA paver segregation. Use of the paver shall not commence prior to receiving approval from the Engineer.

The Contractor shall supply a Certificate of Compliance that verifies that the approved means and methods used to prevent bituminous paver segregation have been implemented on all pavers used on the project.

5-04.3 Surface Smoothness
(January 5, 2004)

The second sentence of Section 5-04.3(13) is revised to read:

The completed surface of the wearing course shall not vary more than 1/4 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to centerline.

5-04.3(14) Planing Bituminous Pavement

Section 5-04.3(14) is supplemented with the following:

Planing limits shall coincide with the center of the new travel lanes or six-inches from the lane lines to avoid placement of RPM's on the planing line. The planing shall precede as soon as practical the HMA overlay to provide a clean longitudinal butt joint.

5-04.3(17) Paving Under Traffic

Section 5-04.3(17) is supplemented with the following:

The Contractor shall provide a Paving Plan three-weeks prior to commencing paving operations for the Engineers approval. The Paving Plan shall include a list of equipment that will be used including the number of trucks. The plan for Phasing the milling and pavement including the limits of paving for each phase.

5-04.3(20) Anti-Stripping Additive

(March 24, 2011)
Section 5-04.3(20) is supplemented with the following:

The cost for anti-stripping additive shall be included in the various HMA bid item. No separate measurement and payment will be made.

5-04.3(22) Cold Mix

(City of Fife Special Provision) New Section

Cold Mix Asphalt shall not be placed with the roadway except when used to secure temporary steel plating. Cold mix asphalt may be used for temporary walkway and driveways outside the roadway.

5-04.5 Payment

Section 5-04.5 is supplemented with the following:

The unit bid item bid per Ton of "HMA CL__PG___" shall be full compensation for all work outlined in this section including paths, pavement repair, trench patching, driveways, and edge curbs.

No separate payment will be made for Cold Mix Asphalt, cost associated with Cold Mix Asphalt shall be included in other bid items.

DIVISION 8
MISCELLANEOUS CONSTRUCTION

8-01 Erosion Control and Water Pollution Control

8-01.1 Description

Section 8-01.1 is supplement by the following:

This Work shall also consists of developing a Stormwater Pollution Prevention Plan (SWPPP). Seed planting areas shall be hydroseeded as shown in the Plans or as designated by the Engineer.

The seeding may be accomplished by approved hand methods when impractical to do by hydroseeding. The Contractor shall submit the proposed plan for hand seeding to the Engineer for approval a minimum ten (10) days prior to any seeding.

8-01.2 Materials

Section 8-01.2 is supplement by the following:

Seed

The Contractor shall furnish to the Engineer the supplier guaranteed statement of the composition of the seed mixture and the percentage of purity and germination of each seed variety for review and approval.

8-01.3 Construction Requirements

8-01.3(2) Seeding, Fertilizing and Mulching

8-01.3(2)A Preparation For Application

Section 8-01.3(2)A is revised by deleting the second and third paragraphs and revise by adding the following:

See Specification Section 8-02.3(5) for seed planting area preparation requirements.

Delete the fourth paragraph and revise by adding the following:

Prior to seeding, the finished grade of the soil shall be one-half (1/2) inch below the top of all curbs, junction and valve boxes, walks and driveways, and other Structures. The soil shall be in a weed free condition.

8-01.3(2)B Seeding and Fertilizing

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

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

(NWR January 17, 2006)

Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients:

Total Nitrogen as N - 30 pounds per acre.
Available Phosphoric Acid as P_2O_5 - 0 pounds per acre.
Soluble Potash as K_2O - 60 pounds per acre.

Twenty pounds of nitrogen applied per acre shall be derived from isobutylidene diurea (IBDU). IBDU shall be supplied in a coarse particle size ranging from 0.7 mm to 2.5 mm in diameter. The remainder may be derived from any source.

Polymer coated ureas and sulfur coated ureas will not be accepted due to product coating break down during mechanical agitation.

The fertilizer formulation and application rate shall be approved by the Engineer before use.

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

(NWR January 17, 2006)
Wood cellulose fiber mulch shall be applied at a rate of 2,000 pounds per acre.

Straw or hay mulch material shall consist of wheat, barley, oat or rice straw. The mulch material shall be air-dry, light in color, and shall not be musty, or moldy. The rate of application shall be no less than two tons per acre. The use of mulch that contains noxious weeds is not permitted, per Standard Specification 9-14.4(1).

8-01.3(2)G Protection and Care of Seeded Areas
Section 8-01.3(2)G is supplement by adding the following:

Maintenance

Maintenance shall begin immediately following seeding operations and shall extend for a minimum of thirty (30) days or longer as needed to establish a uniform, healthy, thick stand of grass. Seeded areas shall be watered as necessary for healthy growth. All costs involved in the maintenance and establishment of seeded areas shall be included in the unit contract prices for Seeding, Mulching, by Hand.

8-01.3(2)H Inspection
Section 8-01.3(2)H is supplement by adding the following:

At the end of thirty (30) days, the Engineer shall inspect the seeded area. Areas not established with a uniform healthy thick stand of grass, as determined by the Engineer, shall be reseeded, re-mulched, or re-fertilized at the Contractor's expense prior to payment.

8-01.3(5) Plastic Covering

Supplement this Section 8-01.3(5) with the following:

Plastic Covering shall include all necessary sand bags or other means of securing as needed for initial installation, repair, replacement (if needed) and maintenance of the plastic covering including labor to uncover and cover as required for intermittent work periods and removal/disposal of plastic covering upon stabilization of the area.

8-01.3(9) Silt Fence

Supplement this Section 8-01.3(9) with the following:

The geotextile shall be orange in color.

8-01.3(17) Suspension of Work

If at any time during the life of this Contract it becomes necessary to suspend work due to weather conditions or other constraints, the Contractor shall remain obligated to maintain the temporary erosion / water pollution control requirements and measures of the Contract Documents during the entire suspension of work.

All costs associated with maintenance of the temporary erosion / water pollution control measures during the Suspension of Work shall be considered incidental to and included in the various bid items and no additional payment shall be made.

8-01.4 Measurement

Section 8-01.4 is supplement by adding the following:

No separate measurement for SWPPP or SWPPP weekly monitoring or daily monitoring will be made.

“Seeding, Fertilizing and Mulching” per square yard.

8-01.5 Payment

Delete the sixth paragraph of Section 8.01.5 that reads as follows:

“Maintenance and removal of erosion and water pollution control devices including removal and disposal of sediment, stabilization and rehabilitation of soil disturbed by these activities and any additional Work deemed necessary by the Engineer to control erosion and water pollution will be paid by force account in accordance with Section 1-09.6”.

Section 8.01.5 is supplement with the following:

All temporary erosion and sediment control and water pollution control items shall include costs for maintenance, repair, and removal (as necessary) of the item.

“Erosion/Water Pollution Control”, per lump sum.

Roadway sweeping and cleaning shall be considered incidental to and included in the bid item for Trimming and Cleanup and **NO** additional payment will be made.

The SWPPP shall be considered incidental to other items of work and no separate payment will be made in association with creating, submitting, modifying and updating the SWPPP as

described herein, transferring the NPDES permit, complying with the Special and General Conditions of the General Permit, design and submittal of erosion and sediment control BMPs including providing, maintaining on site the standby equipment and materials to comply with the General Permit and providing all stormwater monitoring and reporting, and other specified SWPPP requirements.

“Seeding, Fertilizing and Mulching” per square yard.

8-02 Roadside Restoration

8-02.1 Description

Section 8-02.1 is supplemented with the following:

This work includes supplying all material, labor and equipment necessary for transplanting plants. All work shall be in accordance with these Specifications or as designated by the Engineer.

8-02.2 Materials

Section 8-02.2 is supplemented with the following:

Topsoil Type A 9-14.1(1)

8-02.3(4) Topsoil

The last sentence of the first paragraph of Section 8-02.3(4) is deleted and replaced with the following:

Prior to spreading topsoil, all large clods, hard lumps and rocks one (1) inch in diameter and larger, and litter shall be raked up, removed, and disposed of by the Contractor.

8-02.3(4)A Topsoil Type A

Section 8-02.3(4)A is supplemented with the following:

Topsoil Type A mix shall be a mixture of Fine Compost and sand.

Fine Compost shall comply with requirements of 9-14.4(8).

Sand shall be "Washed Building Sand" and meet the following chemical and mechanical analysis:

Size	Sieve	Percent Passing
No. 4	ASTM E-11	100
No. 270	ASTM E-11	0 – 2

Permissible Range

Salinity (millimhos per centimeter of saturation extract @ 25°C): Nil – 3.0

Boron (saturation extract concentration): Nil – 1.0 ppm

Sodium (sodium absorption ratio – SAR): Nil – 6.0

Topsoil Type A shall be a two-way mix soil consisting of forty (40) percent sand and sixty (60) percent Fine Compost by volume, thoroughly mixed together. Mixed soil shall have pH range of 5.0 to 6.5 with dolomite limestone added as necessary to attain this range. Contractor shall send minimum of one (1) representative sample of MIXED SOIL to an approved soil-testing laboratory (state or commercial laboratory) to determine FERTILITY ANALYSIS (to determine magnesium, nitrogen, potassium, phosphorus levels, calcium, minor elements, soluble salts/conductivity and pH). The results shall be submitted to the Engineer (WITH TEST RESULTS AND LABORATORY RECOMMENDATIONS FOR ORNAMENTAL PLANT GROWTH) for approval prior to use on the project site. The Contractor shall be responsible for whatever soil additives may be required, as recommended by the testing laboratory. The cost for testing and soil additions must be borne by the Contractor.

8-02.3(8) Planting

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

Excavation and planting shall occur on the same day and follow these procedures when transplanting tree:

Trunk and Branch Protection
Protect trunk and branches from breaks and bruises.

Pruning
Prune plants before transplanting as directed by Engineer. Remove broken or badly bruised branches with a clean cut. Treat 1-inch (25mm) or larger cuts with an approved tree paint or wound dressing.

Securing Roots
Dig plant to secure as many roots as possible. Maintain a tight, firm ball during moving operations.

Excavation
Excavate plant and plant pit with tree spade of tree mover approved by Engineer.

Placing Plant in Pit
Place transplanted plant into new pit. Backfill voids between ball and pit with clean Top Soil A. Thoroughly water on the same day the planting occurred regardless of season. Use the excavation material to backfill the pits from which the existing tree was removed, prior to the preparation for new sidewalk and/or pedestrian ramp.

Guarantee
Contractor shall guarantee that transplanted plant survives for at least two years. If plant does not survive the transplant for two years, the Contractor is responsible for the replacement of all plants and materials, of equal or better value, at the cost of the Contractor. All replacement material shall be inspected and approved by the Engineer prior to installation.

8-02.4 Measurement

Section 8-02.4 is supplemented with the following:

“Transplant Plant”, per each

8-02.5 Payment

Section 8-02.5 is supplemented with the following:

“Transplant Plant”, per each

8-06 Cement Concrete Driveway Entrances

8-06.3 Construction Requirements

Section 8-06.3 is supplemented with the following:

Driveways shall be either constructed half at a time or plated for immediate us. Access to properties shall be provided at all times.

8-14 Cement Concrete Sidewalks

8-14.1 Description

Section 8-14.1 is supplemented with the following:

This work consists of constructing cement concrete combination curb ramp or transition curb ramp in accordance with details shown in the Plans and these Specifications and in conformity to lines and grades shown in the Plans or as established by the Engineer.

8-14.4 Measurement

Section 8-14.4 is supplemented with the following:

Transition Curb Ramp shall be measured by the unit of each complete ramp.

8-14.5 Payment

Section 8-14.5 is supplemented with the following:

“Transition Curb Ramp”, per each

8-20 Illumination, Traffic Signal Systems, and Electrical

8-20.1 Description

Section 8-20.1 is supplemented with the following:

This work shall consist of furnishing, installing and field testing all materials and equipment necessary to complete in place, fully functional system of any or all of the following, types including modifications to any existing equipment all in accordance with approved methods, the City of Fife Construction Standards, and Development Standards, the Plans, Standard Specifications and its latest Amendments and these Special Provisions:

1. School Zone Solar Flasher Assembly

Work shall include installation of new School Zone Assembly including furnishing, installation and field testing of a fully equipped School Zone Assembly other incidental materials as may be required to comply with the City of Fife Construction Standards, the Plans, Standard Specifications and its latest Amendments and these Special Provisions.

8-20.2 Materials

Fixed signs shall meet the FHWA MUTCD requirements for color, dimensions and layout.

The sign shall be 90 mph (144 km/h) wind load rated when installed to Information Display Company's specifications.

Housing shall be of a non-sealed, ventilated NEMA 3R type design.

The sign must meet the current Buy America requirements set forth by the FHWA and other Federal agencies for use of federal-aid construction projects.

8-20.3 Construction Requirements

8-20.3(18) Solar Flasher System

Section 8-20.3(18), Solar Flasher System new section:

Compliance and Submittals

Certification of Compliance. The Contractor shall provide agency a Certification of Compliance from the manufacturer. The certificate shall certify that the radar speed sign, solar system, batteries and solar controller comply with the requirements of these specifications.

Specification Verification. Vendor/Contractor must demonstrate the following and show adherence to specifications:

The ability to support unlimited schedules

Wireless programming of the system – onsite and remotely

Programming sign on/off flashing modes and schedules

Ability to install and verify firmware updates

Submittals. Submittals shall conform to "Equipment List and Drawings" of the Standard Specifications. The submittals shall include:

Maintenance Manuals (2 required), Operation Manuals (3 required), Shop drawings showing mechanical sign support for the solar power system and the flasher(s) and all electrical connections (2 required), and Warranty documentation.

Testing. The Flasher System shall be factory tested. In addition to factory testing, site functional testing will be done by the qualified representative of the sign vendor and shall be done in the presence of the engineer:

Reliability

Environmental

Operating temperature range -40°C to +75°C.

Sign material shall be .09” (2.29mm) aluminum.

Sign mounting hardware shall be of brass and/or stainless steel.

Enclosure shall be 0.125” welded aluminum or high-impact polycarbonate designed for outdoor applications.

The electronic main control board must have conformal coating.

Electronic Performance

Display control electronics shall maintain programmed settings and schedules indefinitely and shall incorporate a real-time clock backup power supply to maintain on-board clock settings through a power outage for up to two weeks and recharge itself when power is restored. The clock backup power supply shall have an available option that does not rely on batteries.

Display shall operate on 12VDC nominal (10V – 16V) and display control electronics must automatically turn the display off when the voltage is below a lower threshold to prevent over-discharge damage to the solar power system.

Charging control system for solar powered signs shall be a solar industry standard item with temperature-compensated charging voltage and battery temperature monitoring for long battery life of 5 to 10 years

In solar-powered systems, display control electronics shall monitor 12-volt supply to estimate the charge available and determine when the sign may be powered up for reliable operation.

Flasher Beacon Performance

Flasher beacons shall be 12” diameter 12VDC 5 watt amber LED units rated for flasher use. Red beacons shall be available upon request, in both sizes.

Amber beacons shall have a centerline luminous intensity of 600cd (12” model).

Beacon housings shall be polycarbonate and either black or yellow in color, and shall optionally include a visor to maintain beacon contrast in bright lighting conditions.

Beacons shall comply with applicable ITE standards.

Vandalism Protection

Flasher system housing shall be provided with tamper proof (vandal resistant) fasteners that are compatible with existing agency tools, or via door lock or padlock.

Serviceability

Manufacturer's name, date of manufacture, model number, serial number, voltage requirement, and FCC approval number if any, will be labeled on the back of the system.

For field support, programmability, data downloads and diagnostics must be accessible via Bluetooth™ wireless link to a Windows-compatible notebook computer, and shall have the following display diagnostics:

Test the real-time connection to the sign

Run a test sequence that turns the flashers on for verification.

System voltage check, to validate the DC power source

Validate real-time vehicle count to determine if data is being collected and radar is operational, if a radar is included.

Ability to verify and update to new firmware version

The following components shall be field replaceable: Controller, fuse block(s) and fuse(s), communication options such as modems or adapters, optional TimeKeeper GPS unit, AC power supply, and with solar power packages, the solar controller, battery and solar panels.

Dimensions, Weight and Color

Sign(s) (if used) shall adhere to MUTCD requirements in size, sheeting material, lettering, and symbols.

Flasher system control box exclusive of solar battery shall weigh no more than 25 lbs.

Electronic Specification

Solar

Solar powered signs shall be capable of guaranteed operation over the full range of operating times requested. Options for fully autonomous operation 24 hours per day, 365 days per year shall be available.

Solar system shall be designed to take into account the following factors:

Minimum solar radiation available in the geographic region

Total power draw for all devices connected to the sign as ordered

Local site conditions reviewed and taken into account, including panel shading or other obstructions.

Solar Controller

The solar controller and panel system shall include: temperature compensation, constant voltage, allowing up to 100 percent capacity, reverse leakage current protection, ambient temperatures from - 40°C to at least +50°C, anodized casing or equivalent, and charging indicator.

The solar controller shall have short circuit, over current, high temperature, and over voltage protection.

The controller shall be capable of constant voltage low-frequency PWM battery charging, and shall be capable of charging a completely discharged battery.

The controller shall meet all requirements of Underwriters Laboratories UL 1741.

The solar controller shall be connected to the solar panels and batteries inside a weather proof (NEMA 3R ventilated) enclosure in natural aluminum or light color paint to reflect sunlight for increased battery life.

Batteries

The solar battery shall include a 55AH or greater, 12 VDC, deep cycle; solar rated, sealed valve regulated, gelled electrolyte or absorbed glass mat (AGM) lead acid battery, solar rated, non-spillable.

Battery shall be located inside the NEMA 3R enclosure.

Solar Array Panel

Single solar panel with appropriate wattage for the application shall be supplied, as industry-standard 12 V dc design with tempered glass cover. Adding sign options may increase the number or size of solar panels on an individual basis.

Frames shall be anodized or equivalent, and rain tight, with industry-standard cable fittings.

The power output shall be designed for at least 15 years of usable output and shall be free from defects in materials and workmanship for three years.

Solar Array Panel Mounts

Mounts may be fixed-angle and shall be manufactured from corrosion-resistant aluminum with all stainless steel fastening hardware.

Mounts, if adjustable, shall include similar materials for adjustable leg parts for the solar array pitch angle adjustment.

Traffic Data Collection and Reporting

Optional: All systems shall have the capability of an add-on data collection and reporting option, with the following specification:

Separate data points for each target shall be stored, which shall include final speed and the date and time for each detected target.

The data shall not be averaged, consolidated or binned as the individual data point values are then lost.

Capacity for storing over 200,000 individual target data points.

Capability of capturing vehicle speed data with the display off (stealth mode) to support “before and after” studies.

Data shall be formatted as a .csv (text) file providing access to the raw data and the ability to import into other traffic analysis tools.

Reporting software. Shall be easy to use and charts easy to modify. Automatic reports will be provided with graphical analysis of the following data using a personal computer running Microsoft Windows operating system with DotNet 4. Reporting and graphing must run locally on a desktop PC without requiring the internet. The reports shall contain the following information:

A reference posted speed limit.

Average vehicle speeds, 85th percentile vehicle speeds and three additional percentile speeds defined by the user

Total number of vehicles and Percent of Compliance

Moving averages of vehicle speeds with the ability for the user to adjust the number of data points used in calculating the moving average.

Must have the ability to select a range of dates and times that is less than the total time period for which data is collected. (data windowing) and automatically generate reports with the subset of data.

Must have the ability to further window the raw data for analysis to:

Include/exclude certain hours of the day (school hours), weekdays or weekends only,

Remove statistical outliers, and optionally remove data points above or below a certain speed, and

Save the analysis and data for later use with the reporting software.

Sign Scheduling

Optional: All displays shall have the capability of an add-on scheduling option, with the following specification:

Allow unlimited operating modes to support on/off functions and varying speed limits. Each mode determines the following:

When the flashers are to be operating, and when they are to be off.

When the optional data collection feature is on/off.

Allow unlimited timetables that allow up to 16 operating mode changes per day based on time of day.

Allow unlimited weekly schedules to be defined that determine the timetable in use by day of the week.

Allow up to two years of schedule exceptions to be pre-programmed by date and time to support special events, construction zones, and in the case of school zones, non-school days.

Software shall allow schedules and schedule components (modes, timetables, and schedule exceptions) to be:

Created while disconnected from the display sign.

Copied and modified to easily create new schedules or schedule components.

Optional: TimeKeeper™, a GPS time signal receiver shall be available to synchronize display clocks to global standard time daily if desired, when central office communication is not used.

Wireless Notebook communication and programming (onsite)

Sign shall be programmable in the field; using a PC Notebook with a wireless Bluetooth™ connection, up to 50 feet in front of the sign. The programming interface must be easy to use, with minimal training required. The following functions shall be field programmable:

Sign set-up

Date and time of day

Real- time clock correction factor

User-selectable alphanumeric identification code of at least 22 characters to allow unique identification of each system.

Ability to install new software updates and features as needed

Ability to setup and verify schedules

Schedule times of day for on and off control

Exceptions by date and time

Data collection ability

Data collection ON/OFF independent of display

Download data to notebook PC

Erase data from sign or keep data in sign

Wireless Central Office communication and programming

Wireless communication and programming shall be available from the end users desktop computer. All functionality described in section 10 shall be included.

All display communication and programming functions shall be available remotely from a central office location using Microsoft Windows-based Central Office software on a PC with Windows XP or Windows 7 operating systems.

Software shall allow user-defined groups of displays that will upload schedules to all displays in the group with one command.

Central Office must support the following communication links:

The agency's TCP-IP LAN connection and router network, using an optional TCP/IP Adapter and RJ-45 connector in the system housing.

Cellular modem, using optional CDMA cellular modem in the sign and commercial cellular data service via internet-based device addressing.

Antenna options shall be available to allow external antenna to be mounted for weak reception areas.

RS-232 serial data connection using devices that may be in use or selected for use by the Agency, such as radio-frequency links. System housing must be able to house Power over Internet (POE) adapters for external Agency radios which support that capability.

In addition to the above methods, the sign shall have the capability of local Bluetooth™ communications to enable field connection for analysis, repair, or programming without relying on the above connection methods.

BlueTooth software drivers shall be available for the Windows XP and Windows 7 operating systems, and shall be self-installing.

Central Office shall set the internal time clock in each system.

A DisplayManager Alert™ system shall have the capability of polling the system at pre-defined intervals for:

Main DC supply voltage

If sign is equipped with a radar unit, the maximum speed in the past time interval determined by user settings.

DisplayManager Alert shall have the ability to send alerts to three types of contacts:

Send alerts via email to the maintenance contact when conditions warrant attention – if a task fails (internet down, system not working) or if a defect (low battery voltage) is discovered.

Send daily reports to the maintenance and administrative contacts.

The maintenance contact shall receive detailed reports of any failures, to aid in correcting issues.

The administrative contact shall receive a daily message that all tasks were completed successfully or errors were detected.

Send a message to the enforcement contact if a SpeedAlert™ violation occurs. .

Warranty

The manufacturer's warranty for the display and accessories shall be at least three years from the time of purchase.

Optional: Complete service and maintenance plans for 5-year timeframe and/or ongoing cellular service and support shall be available as an option.

The manufacturer at no charge shall provide replacement components for in-warranty repairs when provided in exchange for the part being replaced. Outbound shipping costs to U.S. destinations for warranty replacement parts shall be paid by the manufacturer.

Manufacturer will supply technical telephone support at no extra charge during the warranty period.

All control software and/or firmware updates will be available to the end user at no charge during the warranty period.

8-20.4 Measurement

Section 8-20.4 is supplemented with the following:

The “School Zone Solar Flasher Assembly” system shall be measured per each for each system installed per the Plans, and as specified herein.

8-20.5 Payment

Section 8-20.5 is supplemented with the following:

The “School Zone Solar Flasher Assembly” system shall be per each for each system installed per the Plans, and as specified herein.

8-26 Traffic Control

Add the following new section:

(January 2, 2012 WSDOT GSP)

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 Pedestrian and Traffic Control Plans, and other contract requirements.

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

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

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

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

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

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

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

(August 7, 2006 WSDOT GSP)
Lane closures are subject to the following restrictions:

Definitions:
Peak: 6-9am, 3-6pm
Night: 6pm-6am
Midday: 9am-3pm

Midday- Maintain one lane each direction always.
Peak- Maintain the same number of existing through lanes.
Two way left turn lanes maintained during peak and midday.

Lane width may be reduced to 10’

Provide 25’ wide business access at all times to all business.

Lane closures at night shall have flashers on barrels or barricades.

Lane closures requires advance arrow board.

Pedestrian Traffic Control shall be paid under “Other Temporary Traffic Control” lump sum.

Contractor shall apply traffic and pedestrian control plans to provide a MUTCD compliant traffic and pedestrian work zone.

Contractor to provide 2 week notice to Transit Agency to allow for Rider Alert for work that changes bus stop location. Contractor to provide safe temp bus stop.

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours.

No lane closures will be allowed on a holiday or holiday weekend, or after 12:00 PM (noon) on a day prior to a holiday or holiday weekend. Holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend.

DIVISION 9
MATERIALS

9-03 Aggregates

9-03.8 Aggregates for Hot Mix Asphalt

(January 5, 2004)
HMA Test Requirements
Section 9-03.8(2) is supplemented with the following:

ESAL's
The number of ESAL's for the design and acceptance of the HMA shall be *** 21 *** million.

The third paragraph of Section 9-03.8(2) is revised to read as follows:

The mix criteria VMA and VFA apply to HMA accepted by statistical and non-statistical evaluation.

HMA Tolarances and Adjustments
(September 1, 2010)
Section 9-03.8(7), the table in Item 1 is revised to read as follows:

	Statistical Evaluation	Nonstatistical Evaluation	Commercial Evaluation
Aggregate, percent passing			
1”, ¾”, ½”, and 3/8” sieves	± 6%	± 6%	± 8%
U.S. No. 4 sieve	± 5%	± 5%	± 8%
U.S. No. 8 sieve	± 4%	± 4%	± 8%
U.S. No. 200 sieve	± 2%	± 2%	± 3%
Asphalt binder	± 0.5%	± 0.5%	± 0.7%
Air Voids, Va	2.5% minimum and 5.5% maximum		

The third sentence of the second paragraph of Section 9-03.8(7), Item 1, is revised to read as follows:

The tolerance limits on sieves shall apply to sieves with the control points, and to the No. 4 sieve.

Gravel Borrow
(February 1, 2008)
Section 9-03.14(1), is revised to read as follows:

Delete U.S. No. 200 7.0 max. from the table, and replace with U.S. No. 200 5.0 max.

APPENDICES
(January 2, 2012)

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

APPENDIX A:
Prevailing Wage Rates – Washington State and Federal

APPENDIX C:
Standard Plans- WSDOT

(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:

F-10.12
Note 1. See Standard Plan F-30.10 for Curb Expansion and Contraction Joint spacing. Is revised to read; "See Standard Plan F-30.10 for Curb Expansion and Contraction Joint spacing and see Standard Specification section 8-04 and 9-04 for additional requirements."

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"

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.

F-10.12-02.....6/16/11	F-30.10-02.....6/20/13	F-40.12-02.....6/20/13
F-40.14-02…….6/20/13	F-40.15-02.....6/20/13	F-40.16-02.....6/20/13
M-15.10-01.....2/6/07	M-24.60-03.....5/11/11	

APPENDIX A

State of Washington
Department of Labor & Industries

Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 12/3/2013

County	Trade	Job Classification	Wage	Holiday	Overtime	Note
Pierce	Asbestos Abatement Workers	Journey Level	$41.69	5D	1H	
Pierce	Boilermakers	Journey Level	$62.34	5N	1C	
Pierce	Brick Mason	Brick And Block Finisher	$43.26	5A	1M	
Pierce	Brick Mason	Journey Level	$50.12	5A	1M	
Pierce	Brick Mason	Pointer-Caulker-Cleaner	$50.12	5A	1M	
Pierce	Building Service Employees	Janitor	$9.37		1	
Pierce	Building Service Employees	Shampooer	$10.08		1	
Pierce	Building Service Employees	Waxer	$10.08		1	
Pierce	Building Service Employees	Window Cleaner	$13.22		1	
Pierce	Cabinet Makers (In Shop)	Journey Level	$28.36		1	
Pierce	Carpenters	Acoustical Worker	$50.82	5D	1M	
Pierce	Carpenters	Bridge, Dock And Wharf Carpenters	$50.82	5D	1M	
Pierce	Carpenters	Carpenter	$50.82	5D	1M	
Pierce	Carpenters	Carpenters on Stationary Tools	$50.95	5D	1M	
Pierce	Carpenters	Creosoted Material	$50.92	5D	1M	
Pierce	Carpenters	Floor Finisher	$50.82	5D	1M	
Pierce	Carpenters	Floor Layer	$50.82	5D	1M	
Pierce	Carpenters	Scaffold Erector	$50.82	5D	1M	
Pierce	Cement Masons	Journey Level	$51.18	7A	1M	
Pierce	Divers & Tenders	Diver	$100.28	5D	1M	8A
Pierce	Divers & Tenders	Diver On Standby	$56.68	5D	1M	
Pierce	Divers & Tenders	Diver Tender	$52.23	5D	1M	
Pierce	Divers & Tenders	Surface Rcv & Rov Operator	$52.23	5D	1M	
Pierce	Divers & Tenders	Surface Rcv & Rov Operator Tender	$48.67	5A	1B	
Pierce	Dredge Workers	Assistant Engineer	$53.00	5D	3F	
Pierce	Dredge Workers	Assistant Mate (Deckhand)	$52.58	5D	3F	

Pierce	Dredge Workers	Boatmen	$52.30	5D	3F	
Pierce	Dredge Workers	Engineer Welder	$54.04	5D	3F	
Pierce	Dredge Workers	Leverman, Hydraulic	$55.17	5D	3F	
Pierce	Dredge Workers	Mates	$52.30	5D	3F	
Pierce	Dredge Workers	Oiler	$52.58	5D	3F	
Pierce	Drywall Applicator	Journey Level	$50.82	5D	1H	
Pierce	Drywall Tapers	Journey Level	$49.79	5P	1E	
Pierce	Electrical Fixture Maintenance Workers	Journey Level	$17.76		1	
Pierce	Electricians - Inside	Cable Splicer	$60.94	5C	1G	
Pierce	Electricians - Inside	Journey Level	$57.35	5C	1G	
Pierce	Electricians - Inside	Lead Covered Cable Splicer	$64.54	5C	1G	
Pierce	Electricians - Inside	Welder	$60.94	5C	1G	
Pierce	Electricians - Motor Shop	Craftsman	$15.37		1	
Pierce	Electricians - Motor Shop	Journey Level	$14.69		1	
Pierce	Electricians - Powerline Construction	Cable Splicer	$66.43	5A	4A	
Pierce	Electricians - Powerline Construction	Certified Line Welder	$60.75	5A	4A	
Pierce	Electricians - Powerline Construction	Groundperson	$42.36	5A	4A	
Pierce	Electricians - Powerline Construction	Heavy Line Equipment Operator	$60.75	5A	4A	
Pierce	Electricians - Powerline Construction	Journey Level Lineperson	$60.75	5A	4A	
Pierce	Electricians - Powerline Construction	Line Equipment Operator	$51.05	5A	4A	
Pierce	Electricians - Powerline Construction	Pole Sprayer	$60.75	5A	4A	
Pierce	Electricians - Powerline Construction	Powderperson	$45.39	5A	4A	
Pierce	Electronic Technicians	Journey Level	$32.39		1	
Pierce	Elevator Constructors	Mechanic	$77.70	7D	4A	
Pierce	Elevator Constructors	Mechanic In Charge	$84.24	7D	4A	
Pierce	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$9.28		1	
Pierce	Fence Erectors	Fence Erector	$22.56		1	
Pierce	Flaggers	Journey Level	$35.34	7A	2Y	
Pierce	Glaziers	Journey Level	$53.76	7L	1Y	
Pierce	Heat & Frost Insulators And Asbestos Workers	Journeyman	$58.93	5J	1S	
Pierce	Heating Equipment Mechanics	Journey Level	$69.37	7F	1E	
Pierce	Hod Carriers & Mason Tenders	Journey Level	$42.99	7A	2Y	
Pierce	Industrial Power Vacuum Cleaner	Journey Level	$9.24		1	
Pierce	Inland Boatmen	Boat Operator	$52.51	5B	1K	
Pierce	Inland Boatmen	Cook	$48.89	5B	1K	

Pierce	Inland Boatmen	Deckhand	$49.13	5B	1K	
Pierce	Inland Boatmen	Deckhand Engineer	$50.12	5B	1K	
Pierce	Inland Boatmen	Launch Operator	$51.34	5B	1K	
Pierce	Inland Boatmen	Mate	$51.34	5B	1K	
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$9.73		1	
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$11.48		1	
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$12.78		1	
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$9.19		1	
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$10.53		1	
Pierce	Insulation Applicators	Journey Level	$50.82	5D	1M	
Pierce	Ironworkers	Journeyman	$59.77	7N	1O	
Pierce	Laborers	Air, Gas Or Electric Vibrating Screed	$41.69	7A	2Y	
Pierce	Laborers	Airtrac Drill Operator	$42.99	7A	2Y	
Pierce	Laborers	Ballast Regular Machine	$41.69	7A	2Y	
Pierce	Laborers	Batch Weighman	$35.34	7A	2Y	
Pierce	Laborers	Brick Pavers	$41.69	7A	2Y	
Pierce	Laborers	Brush Cutter	$41.69	7A	2Y	
Pierce	Laborers	Brush Hog Feeder	$41.69	7A	2Y	
Pierce	Laborers	Burner	$41.69	7A	2Y	
Pierce	Laborers	Caisson Worker	$42.99	7A	2Y	
Pierce	Laborers	Carpenter Tender	$41.69	7A	2Y	
Pierce	Laborers	Caulker	$41.69	7A	2Y	
Pierce	Laborers	Cement Dumper-paving	$42.46	7A	2Y	
Pierce	Laborers	Cement Finisher Tender	$41.69	7A	2Y	
Pierce	Laborers	Change House Or Dry Shack	$41.69	7A	2Y	
Pierce	Laborers	Chipping Gun (under 30 Lbs.)	$41.69	7A	2Y	
Pierce	Laborers	Chipping Gun(30 Lbs. And Over)	$42.46	7A	2Y	
Pierce	Laborers	Choker Setter	$41.69	7A	2Y	
Pierce	Laborers	Chuck Tender	$41.69	7A	2Y	
Pierce	Laborers	Clary Power Spreader	$42.46	7A	2Y	
Pierce	Laborers	Clean-up Laborer	$41.69	7A	2Y	
Pierce	Laborers	Concrete Dumper/chute Operator	$42.46	7A	2Y	
Pierce	Laborers	Concrete Form Stripper	$41.69	7A	2Y	
Pierce	Laborers	Concrete Placement Crew	$42.46	7A	2Y	

Pierce	Laborers	Concrete Saw Operator/core Driller	$42.46	7A	2Y	
Pierce	Laborers	Crusher Feeder	$35.34	7A	2Y	
Pierce	Laborers	Curing Laborer	$41.69	7A	2Y	
Pierce	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	$41.69	7A	2Y	
Pierce	Laborers	Ditch Digger	$41.69	7A	2Y	
Pierce	Laborers	Diver	$42.99	7A	2Y	
Pierce	Laborers	Drill Operator (hydraulic,diamond)	$42.46	7A	2Y	
Pierce	Laborers	Dry Stack Walls	$41.69	7A	2Y	
Pierce	Laborers	Dump Person	$41.69	7A	2Y	
Pierce	Laborers	Epoxy Technician	$41.69	7A	2Y	
Pierce	Laborers	Erosion Control Worker	$41.69	7A	2Y	
Pierce	Laborers	Faller & Bucker Chain Saw	$42.46	7A	2Y	
Pierce	Laborers	Fine Graders	$41.69	7A	2Y	
Pierce	Laborers	Firewatch	$35.34	7A	2Y	
Pierce	Laborers	Form Setter	$41.69	7A	2Y	
Pierce	Laborers	Gabian Basket Builders	$41.69	7A	2Y	
Pierce	Laborers	General Laborer	$41.69	7A	2Y	
Pierce	Laborers	Grade Checker & Transit Person	$42.99	7A	2Y	
Pierce	Laborers	Grinders	$41.69	7A	2Y	
Pierce	Laborers	Grout Machine Tender	$41.69	7A	2Y	
Pierce	Laborers	Groutmen (pressure)including Post Tension Beams	$42.46	7A	2Y	
Pierce	Laborers	Guardrail Erector	$41.69	7A	2Y	
Pierce	Laborers	Hazardous Waste Worker (level A)	$42.99	7A	2Y	
Pierce	Laborers	Hazardous Waste Worker (level B)	$42.46	7A	2Y	
Pierce	Laborers	Hazardous Waste Worker (level C)	$41.69	7A	2Y	
Pierce	Laborers	High Scaler	$42.99	7A	2Y	
Pierce	Laborers	Jackhammer	$42.46	7A	2Y	
Pierce	Laborers	Laserbeam Operator	$42.46	7A	2Y	
Pierce	Laborers	Maintenance Person	$41.69	7A	2Y	
Pierce	Laborers	Manhole Builder-mudman	$42.46	7A	2Y	
Pierce	Laborers	Material Yard Person	$41.69	7A	2Y	
Pierce	Laborers	Motorman-dinky Locomotive	$42.46	7A	2Y	
Pierce	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	$42.46	7A	2Y	
Pierce	Laborers	Pavement Breaker	$42.46	7A	2Y	

Pierce	Laborers	Pilot Car	$35.34	7A	2Y	
Pierce	Laborers	Pipe Layer Lead	$42.99	7A	2Y	
Pierce	Laborers	Pipe Layer/tailor	$42.46	7A	2Y	
Pierce	Laborers	Pipe Pot Tender	$42.46	7A	2Y	
Pierce	Laborers	Pipe Reliner	$42.46	7A	2Y	
Pierce	Laborers	Pipe Wrapper	$42.46	7A	2Y	
Pierce	Laborers	Pot Tender	$41.69	7A	2Y	
Pierce	Laborers	Powderman	$42.99	7A	2Y	
Pierce	Laborers	Powderman's Helper	$41.69	7A	2Y	
Pierce	Laborers	Power Jacks	$42.46	7A	2Y	
Pierce	Laborers	Railroad Spike Puller - Power	$42.46	7A	2Y	
Pierce	Laborers	Raker - Asphalt	$42.99	7A	2Y	
Pierce	Laborers	Re-timberman	$42.99	7A	2Y	
Pierce	Laborers	Remote Equipment Operator	$42.46	7A	2Y	
Pierce	Laborers	Rigger/signal Person	$42.46	7A	2Y	
Pierce	Laborers	Rip Rap Person	$41.69	7A	2Y	
Pierce	Laborers	Rivet Buster	$42.46	7A	2Y	
Pierce	Laborers	Rodder	$42.46	7A	2Y	
Pierce	Laborers	Scaffold Erector	$41.69	7A	2Y	
Pierce	Laborers	Scale Person	$41.69	7A	2Y	
Pierce	Laborers	Sloper (over 20")	$42.46	7A	2Y	
Pierce	Laborers	Sloper Sprayer	$41.69	7A	2Y	
Pierce	Laborers	Spreader (concrete)	$42.46	7A	2Y	
Pierce	Laborers	Stake Hopper	$41.69	7A	2Y	
Pierce	Laborers	Stock Piler	$41.69	7A	2Y	
Pierce	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	$42.46	7A	2Y	
Pierce	Laborers	Tamper (multiple & Self-propelled)	$42.46	7A	2Y	
Pierce	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	$42.46	7A	2Y	
Pierce	Laborers	Toolroom Person (at Jobsite)	$41.69	7A	2Y	
Pierce	Laborers	Topper	$41.69	7A	2Y	
Pierce	Laborers	Track Laborer	$41.69	7A	2Y	
Pierce	Laborers	Track Liner (power)	$42.46	7A	2Y	
Pierce	Laborers	Traffic Control Laborer	$37.79	7A	2Y	8R
Pierce	Laborers	Traffic Control Supervisor	$37.79	7A	2Y	8R
Pierce	Laborers	Truck Spotter	$41.69	7A	2Y	
Pierce	Laborers	Tugger Operator	$42.46	7A	2Y	
Pierce	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	$60.06	7A	2Y	8Q
Pierce	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	$65.09	7A	2Y	8Q
Pierce	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	$68.77	7A	2Y	8Q

Pierce	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	$74.47	7A	2Y	8Q
Pierce	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	$76.59	7A	2Y	8Q
Pierce	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	$81.69	7A	2Y	8Q
Pierce	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	$83.59	7A	2Y	8Q
Pierce	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	$85.59	7A	1H	8Q
Pierce	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	$87.59	7A	1H	8Q
Pierce	Laborers	Tunnel Work-Guage and Lock Tender	$43.09	7A	2Y	8Q
Pierce	Laborers	Tunnel Work-Miner	$43.09	7A	2Y	8Q
Pierce	Laborers	Vibrator	$42.46	7A	2Y	
Pierce	Laborers	Vinyl Seamer	$41.69	7A	2Y	
Pierce	Laborers	Watchman	$32.12	7A	2Y	
Pierce	Laborers	Welder	$42.46	7A	2Y	
Pierce	Laborers	Well Point Laborer	$42.46	7A	2Y	
Pierce	Laborers	Window Washer/cleaner	$32.12	7A	2Y	
Pierce	Laborers - Underground Sewer & Water	General Laborer & Topman	$41.69	7A	2Y	
Pierce	Laborers - Underground Sewer & Water	Pipe Layer	$42.46	7A	2Y	
Pierce	Landscape Construction	Irrigation Or Lawn Sprinkler Installers	$17.07		1	
Pierce	Landscape Construction	Landscape Equipment Operators Or Truck Drivers	$14.55		1	
Pierce	Landscape Construction	Landscaping Or Planting Laborers	$17.07		1	
Pierce	Lathers	Journey Level	$50.82	5D	1H	
Pierce	Marble Setters	Journey Level	$50.12	5A	1M	
Pierce	Metal Fabrication (In Shop)	Fitter	$15.25		1	
Pierce	Metal Fabrication (In Shop)	Laborer	$10.32		1	
Pierce	Metal Fabrication (In Shop)	Machine Operator	$13.98		1	
Pierce	Metal Fabrication (In Shop)	Welder	$13.98		1	
Pierce	Millwright	Journey Level	$51.92	5D	1M	
Pierce	Modular Buildings	Journey Level	$9.19		1	
Pierce	Painters	Journey Level	$36.64	6Z	2B	
Pierce	Pile Driver	Journey Level	$51.07	5D	1M	
Pierce	Plasterers	Journey Level	$49.29	7Q	1R	
Pierce	Playground & Park Equipment Installers	Journey Level	$9.73		1	
Pierce	Plumbers & Pipefitters	Journey Level	$61.57	5A	1G	
Pierce	Power Equipment Operators	Asphalt Plant Operator	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Assistant Engineers	$50.22	7A	3C	8P

Pierce	Power Equipment Operators	Barrier Machine (zipper)	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Batch Plant Operator: Concrete	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Bobcat	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Brokk - Remote Demolition Equipment	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Brooms	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Bump Cutter	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Cableways	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Chipper	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Compressor	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42m	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Concrete Finish Machine -laser Screed	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Conveyors	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Cranes, 100 Tons - 199 Tons, Or 150 Ft Of Boom (including Jib With Attachments)	$54.04	7A	3C	8P
Pierce	Power Equipment Operators	Cranes, 200 Tons To 300 Tons, Or 250 Ft Of Boom (including Jib With Attachments)	$54.61	7A	3C	8P
Pierce	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Cranes: Friction 100 Tons Through 199 Tons	$54.61	7A	3C	8P
Pierce	Power Equipment Operators	Cranes: Friction Over 200 Tons	$55.17	7A	3C	8P
Pierce	Power Equipment Operators	Cranes: Over 300 Tons, Or 300' Of Boom (Including Jib With Attachments)	$55.17	7A	3C	8P
Pierce	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Crusher	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Deck Engineer/deck Winches (power)	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Derricks, On Building Work	$53.49	7A	3C	8P

Pierce	Power Equipment Operators	Dozers D-9 & Under	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Drilling Machine	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Grade Engineer: Using Blueprints, Cut Sheets,etc.	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Gradechecker/stakeman	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Guardrail Punch	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Horizontal/directional Drill Locator	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Horizontal/directional Drill Operator	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	$54.04	7A	3C	8P
Pierce	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Loaders, Overhead Under 6 Yards	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Loaders, Plant Feed	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Loaders: Elevating Type Belt	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Locomotives, All	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Material Transfer Device	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Mechanics, All (Leadmen - $0.50 Per Hour Over Mechanic)	$54.04	7A	3C	8P
Pierce	Power Equipment Operators	Motor Patrol Grader - Non-finishing	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Motor Patrol Graders, Finishing	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Oil Distributors, Blower	$50.22	7A	3C	8P

		Distribution & Mulch Seeding Operator				
Pierce	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers,strato	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	$54.04	7A	3C	8P
Pierce	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Pavement Breaker	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Pile Driver (other Than Crane Mount)	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Posthole Digger, Mechanical	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Power Plant	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Pumps - Water	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Quad 9, HD 41, D10 And Over	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Rigger And Bellman	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Rollagon	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Roller, Other Than Plant Mix	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Roto-mill, Roto-grinder	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Saws - Concrete	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Scrapers - Concrete & Carry All	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Service Engineers - Equipment	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Shotcrete/gunite Equipment	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$54.04	7A	3C	8P

Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$54.61	7A	3C	8P
Pierce	Power Equipment Operators	Slipform Pavers	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Spreader, Topsider & Screedman	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Subgrader Trimmer	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Tower Bucket Elevators	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Tower Crane Over 175'in Height, Base To Boom	$54.61	7A	3C	8P
Pierce	Power Equipment Operators	Tower Crane Up: To 175' In Height, Base To Boom	$54.04	7A	3C	8P
Pierce	Power Equipment Operators	Transporters, All Track Or Truck Type	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Trenching Machines	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	$52.58	7A	3C	8P
Pierce	Power Equipment Operators	Truck Mount Portable Conveyor	$53.00	7A	3C	8P
Pierce	Power Equipment Operators	Welder	$53.49	7A	3C	8P
Pierce	Power Equipment Operators	Wheel Tractors, Farmall Type	$50.22	7A	3C	8P
Pierce	Power Equipment Operators	Yo Yo Pay Dozer	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operator	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Assistant Engineers	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator: Concrete	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Bobcat	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Brooms	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cableways	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Chipper	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Compressor	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42m	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	$50.22	7A	3C	8P

Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Conveyors	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes, 100 Tons - 199 Tons, Or 150 Ft Of Boom (including Jib With Attachments)	$54.04	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes, 200 Tons To 300 Tons, Or 250 Ft Of Boom (including Jib With Attachments)	$54.61	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction 100 Tons Through 199 Tons	$54.61	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction Over 200 Tons	$55.17	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: Over 300 Tons, Or 300' Of Boom (Including Jib With Attachments)	$55.17	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Crusher	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/deck Winches (power)	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-	Forklifts: Under 3000 Lbs. With	$50.22	7A	3C	8P

	Underground Sewer & Water	Attachments				
Pierce	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blueprints, Cut Sheets,etc.	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Hydralifts/Boom Trucks Over 10 Tons	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	$54.04	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (Leadmen - $0.50 Per Hour Over Mechanic)	$54.04	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Grader - Non-finishing	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders, Finishing	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers,strato	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-	Overhead, Bridge Type Crane:	$53.00	7A	3C	8P

	Underground Sewer & Water	20 Tons Through 44 Tons				
Pierce	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	$54.04	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Power Plant	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Quad 9, HD 41, D10 And Over	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Rigger And Bellman	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Rollagon	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-	Shovel, Excavator, Backhoe:	$53.49	7A	3C	8P

	Underground Sewer & Water	Over 30 Metric Tons To 50 Metric Tons				
Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$54.04	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$54.61	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Tower Crane Over 175'in Height, Base To Boom	$54.61	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Tower Crane: Up To 175' In Height, Base To Boom	$54.04	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	$52.58	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	$53.00	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Welder	$53.49	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	$50.22	7A	3C	8P
Pierce	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	$53.00	7A	3C	8P
Pierce	Power Line Clearance Tree Trimmers	Journey Level In Charge	$43.76	5A	4A	
Pierce	Power Line Clearance Tree Trimmers	Spray Person	$41.51	5A	4A	
Pierce	Power Line Clearance Tree Trimmers	Tree Equipment Operator	$43.76	5A	4A	
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer	$39.10	5A	4A	
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$29.44	5A	4A	
Pierce	Refrigeration & Air Conditioning Mechanics	Mechanic	$62.76	5A	1G	
Pierce	Residential Brick Mason	Journey Level	$23.77		1	

Pierce	Residential Carpenters	Journey Level	$39.62	5D	1M	
Pierce	Residential Cement Masons	Journey Level	$51.18	7A	1M	
Pierce	Residential Drywall Applicators	Journey Level	$39.62	5D	1M	
Pierce	Residential Drywall Tapers	Journey Level	$49.79	5P	1E	
Pierce	Residential Electricians	JOURNEY LEVEL	$29.29		1	
Pierce	Residential Glaziers	Journey Level	$35.10	7L	1H	
Pierce	Residential Insulation Applicators	Journey Level	$18.70		1	
Pierce	Residential Laborers	Journey Level	$20.99		1	
Pierce	Residential Marble Setters	Journey Level	$22.67		1	
Pierce	Residential Painters	Journey Level	$26.13		1	
Pierce	Residential Plumbers & Pipefitters	Journey Level	$43.72	5A	1G	
Pierce	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$36.44	5A	1G	
Pierce	Residential Sheet Metal Workers	Journey Level (Field or Shop)	$41.84	7F	1R	
Pierce	Residential Soft Floor Layers	Journey Level	$41.99	7E	1B	
Pierce	Residential Sprinkler Fitters (Fire Protection)	Journey Level	$40.81	5C	2R	
Pierce	Residential Stone Masons	Journey Level	$22.67		1	
Pierce	Residential Terrazzo Workers	Journey Level	$9.19		1	
Pierce	Residential Terrazzo/Tile Finishers	Journey Level	$19.32		1	
Pierce	Residential Tile Setters	Journey Level	$9.19		1	
Pierce	Roofers	Journey Level	$42.61	5A	2O	
Pierce	Roofers	Using Irritable Bituminous Materials	$45.61	5A	2O	
Pierce	Sheet Metal Workers	Journey Level (Field or Shop)	$69.37	7F	1E	
Pierce	Shipbuilding & Ship Repair	Boilermaker	$39.66	7M	1H	
Pierce	Shipbuilding & Ship Repair	Carpenter	$33.71	6E	1B	
Pierce	Shipbuilding & Ship Repair	Electrician	$33.71	6E	1B	
Pierce	Shipbuilding & Ship Repair	Heat & Frost Insulator	$58.93	5J	1S	
Pierce	Shipbuilding & Ship Repair	Laborer	$19.10		1	
Pierce	Shipbuilding & Ship Repair	Machinist	$33.71	6E	1B	
Pierce	Shipbuilding & Ship Repair	Operator	$33.71	6E	1B	
Pierce	Shipbuilding & Ship Repair	Painter	$37.09	6A	1R	
Pierce	Shipbuilding & Ship Repair	Pipefitter	$33.71	6E	1B	
Pierce	Shipbuilding & Ship Repair	Rigger	$15.77		1	
Pierce	Shipbuilding & Ship Repair	Sandblaster	$37.09	6A	1R	
Pierce	Shipbuilding & Ship Repair	SHEET METAL	$35.83		1	
Pierce	Shipbuilding & Ship Repair	Shipfitter	$33.71	6E	1B	
Pierce	Shipbuilding & Ship Repair	Trucker	$15.75		1	
Pierce	Shipbuilding & Ship Repair	Warehouse	$13.75		1	
Pierce	Shipbuilding & Ship Repair	Welder/burner	$33.71	6E	1B	
Pierce	Sign Makers & Installers	Sign Installer	$26.17		1	

	(Electrical)					
Pierce	Sign Makers & Installers (Electrical)	Sign Maker	$20.33		1	
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Installer	$33.43		1	
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Maker	$22.79		1	
Pierce	Soft Floor Layers	Journey Level	$42.15	5A	3D	
Pierce	Solar Controls For Windows	Journey Level	$10.31		1	
Pierce	Sprinkler Fitters (Fire Protection)	Journey Level	$69.59	5C	1X	
Pierce	Stage Rigging Mechanics (Non Structural)	Journey Level	$13.23		1	
Pierce	Stone Masons	Journey Level	$50.12	5A	1M	
Pierce	Street And Parking Lot Sweeper Workers	Journey Level	$12.06		1	
Pierce	Surveyors	All Classifications	$35.68	Null	1	
Pierce	Telecommunication Technicians	Journey Level	$28.29		1	
Pierce	Telephone Line Construction - Outside	Cable Splicer	$36.01	5A	2B	
Pierce	Telephone Line Construction - Outside	Hole Digger/Ground Person	$20.05	5A	2B	
Pierce	Telephone Line Construction - Outside	Installer (Repairer)	$34.50	5A	2B	
Pierce	Telephone Line Construction - Outside	Special Aparatus Installer I	$36.01	5A	2B	
Pierce	Telephone Line Construction - Outside	Special Apparatus Installer II	$35.27	5A	2B	
Pierce	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	$36.01	5A	2B	
Pierce	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$33.47	5A	2B	
Pierce	Telephone Line Construction - Outside	Telephone Lineperson	$33.47	5A	2B	
Pierce	Telephone Line Construction - Outside	Television Groundperson	$19.04	5A	2B	
Pierce	Telephone Line Construction - Outside	Television Lineperson/Installer	$25.27	5A	2B	
Pierce	Telephone Line Construction - Outside	Television System Technician	$30.20	5A	2B	
Pierce	Telephone Line Construction - Outside	Television Technician	$27.09	5A	2B	
Pierce	Telephone Line Construction - Outside	Tree Trimmer	$33.47	5A	2B	
Pierce	Terrazzo Workers	Journey Level	$46.96	5A	1M	
Pierce	Tile Setters	Journey Level	$46.96	5A	1M	
Pierce	Tile, Marble & Terrazzo Finishers	Journey Level	$20.74		1	

Pierce	Traffic Control Stripers	Journey Level	$42.33	7A	1K	
Pierce	Truck Drivers	Asphalt Mix	$22.49		1	
Pierce	Truck Drivers	Dump Truck	$22.56		1	
Pierce	Truck Drivers	Dump Truck And Trailer	$22.56		1	
Pierce	Truck Drivers	Other Trucks	$30.20		1	
Pierce	Truck Drivers	Transit Mixer	$33.17	6I	2H	
Pierce	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$16.09		1	
Pierce	Well Drillers & Irrigation Pump Installers	Oiler	$15.39		1	
Pierce	Well Drillers & Irrigation Pump Installers	Well Driller	$18.30		1	

APPENDIX B

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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)

Modification Number	Publication Date
0	01/04/2013
1	01/11/2013
2	01/18/2013
3	02/01/2013
4	02/08/2013
5	02/15/2013
6	02/22/2013
7	03/08/2013
8	03/15/2013
9	03/22/2013
10	04/05/2013
11	04/12/2013
12	04/19/2013
13	05/10/2013
14	06/07/2013
15	06/21/2013
16	06/28/2013
17	07/05/2013
18	07/12/2013
19	07/26/2013
20	08/02/2013
21	08/16/2013
22	08/23/2013
23	08/30/2013
24	09/06/2013
25	09/20/2013
26	09/27/2013
27	10/04/2013
28	11/01/2013

* 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
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 Not Under Pressure

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/MILLWRIGHTS: PASCO (515 N Neel Street) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS/PILEDRIVER: 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).

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.

CARP0003-006 10/01/2011

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:

	Rates	Fringes
Carpenters:		
CARPENTERS	$ 32.04	14.18
DIVERS TENDERS	$ 36.34	14.18
DIVERS	$ 77.08	14.18
DRYWALL	$ 27.56	14.18
MILLWRIGHTS	$ 32.19	14.18
PILEDRIVERS	$ 33.04	14.18

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

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CARP0770-003 07/01/2012

	Rates	Fringes

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
MILLWRIGHT AND MACHINE ERECTORS	$ 37.07	12.60
PILEDRIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED MATERIAL, ALL PILING	$ 36.22	12.60

(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:

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 - 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	$ .70/hour
Over 45 radius miles	$1.50/hour

CARP0770-006 07/07/2012

	Rates	Fringes
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

BRIDGE CARPENTERS	$ 35.39	13.60
CARPENTERS ON CREOSOTE MATERIAL	$ 35.49	13.60
CARPENTERS	$ 35.39	13.60
DIVERS TENDER	$ 39.15	13.60
DIVERS	$ 87.20	13.60
MILLWRIGHT AND MACHINE ERECTORS	$ 36.39	13.60
PILEDRIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED MATERIAL, ALL PILING	$ 35.59	13.60

(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:

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 - 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	$ .70/hour
Over 45 radius miles	$1.50/hour

ELEC0046-001 02/04/2013

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 46.87	3%+15.96
ELECTRICIAN	$ 42.61	3%+15.96

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* ELEC0048-003 07/01/2013

CLARK, KLICKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 41.85	19.54
ELECTRICIAN	$ 38.05	19.54

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 Delorrne Street Atlas USA 2006 plus.

ELEC0048-029 07/01/2013

COWLITZ AND WAHKIAKUM COUNTY

	Rates	Fringes
CABLE SPLICER	$ 41.85	19.54
ELECTRICIAN	$ 38.05	19.54

ELEC0073-001 07/01/2013

ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 31.98	16.15
ELECTRICIAN	$ 29.07	16.15

ELEC0076-002 09/01/2013

GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 37.71	22.47
ELECTRICIAN	$ 34.28	22.47

ELEC0112-005 07/01/2013

ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA WALLA, YAKIMA COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 38.90	17.35
ELECTRICIAN	$ 37.05	17.29

ELEC0191-003 06/01/2013

ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 42.91	17.39
ELECTRICIAN	$ 39.01	17.39

ELEC0191-004 07/01/2013

CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
CABLE SPLICER	$ 39.50	17.30
ELECTRICIAN	$ 35.91	17.3

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 JUNA, 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):

	Rates	Fringes
Power equipment operators:		
Group 1A	$ 37.39	16.65
Group 1AA	$ 37.96	16.65
Group 1AAA	$ 38.52	16.65
Group 1	$ 36.84	16.65
Group 2	$ 36.35	16.65

Group 3.....$ 35.93 16.65
Group 4.....$ 33.57 16.65

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; Rollagon; Scrapers-self propelled 45 yards and over; Slipform pavers; Transporters, all truck or track type

GROUP 2 - Barrier machine (zipper); Batch Plant Operaor-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-3yards 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; Scrpers-concrete and carry-all; Service engineer-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 reate 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 elgible 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 Operaor-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; Scrpers-concrete and carry-all; Service engineer-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, ect.) 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 elgible 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.

ENGI0302-038 06/01/2013

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):

	Rates	Fringes
Power equipment operators:		
GROUP 1A	$ 37.39	16.65
GROUP 1AA	$ 37.96	16.65
GROUP 1AAA	$ 38.52	16.65
GROUP 1	$ 36.84	16.65
GROUP 2	$ 36.35	16.65
GROUP 3	$ 35.93	16.65
GROUP 4	$ 33.57	16.65

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; Scrapers-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, 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; 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-lfit 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 breaker; Posthole 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.

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HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be elgible 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.

ENGI0370-002 06/01/2013

ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN), COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH

MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES

ZONE 1:

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 25.56	12.85
GROUP 2	$ 25.88	12.85
GROUP 3	$ 26.49	12.85
GROUP 4	$ 26.65	12.85
GROUP 5	$ 26.81	12.85
GROUP 6	$ 27.09	12.85
GROUP 7	$ 27.36	12.85
GROUP 8	$ 28.46	12.85

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, Saginau 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); Gunnite Combination Mixer & Compressor; Locomotive Engineer; Mixermobile; Mucking Machine; Posthole Auger or Punch; Pump (grout or jet); Soil Stabilizer (P & H or similar); Spreader Machine; Dozer/Tractor (up to D-6 or equivalent) and Traxcavator; Traverse Finish Machine; Turnhead Operator

GROUP 4: Concrete Pumps (squeeze-crete, flow-crete, pump-crete, 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 Operaotr (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 & overhead, 4 yds. incl. 8 yds.); 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 yds.); 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 yds & 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 dragine; Derricks & Stiffleys (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 yds. & over); Whirleys & Hammerheads, ALL; H.D. Mechanic; H.D. Welder; Hydraulic Platform Trailers (Goldhofer, Shaurerly andSimilar); Ultra High Pressure Wateriet Cutting Tool System Operator (30,000 psi); Vacuum Blasting Machine Operator

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.

ENGI0701-002 01/01/2013

CLARK, COWLITZ, KLICKKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHKIAKUM COUNTIES

POWER RQUIPMENT OPERATORS: ZONE 1

	Rates	Fringes
Power equipment operators:		
(See Footnote A)		
GROUP 1	$ 37.63	13.55
GROUP 1A	$ 39.51	13.55
GROUP 1B	$ 41.39	13.55
GROUP 2	$ 35.97	13.55
GROUP 3	$ 34.96	13.55
GROUP 4	$ 34.00	13.55
GROUP 5	$ 32.88	13.55
GROUP 6	$ 29.84	13.55

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 porjects 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; BLADE: 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; Bulldozere 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, CLAMSHELL, 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 (screeman 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 Clamshelll, 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 20,0000 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 SCRAPERS: 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; Stationay Drag Scraper Operator; Shovel, Dragline, Clamshell, Operator under 3 cy 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 mahine operator, Clary, 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, Pittman; DRILLING: Churm 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 simialr 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; Chiip 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 feederman; DRILLING: Drill Tender; Auger Oiler; FLOATING EQUIPMENT: Deckhand; Boatman; FORKLIFT: Self-propelled Scaffolding Operator, construction job site (exclduing 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, DRAGLINE, 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 operartor, mechanical, self-propelled; Hydrographic Seeder Machine Operator; TRENCHING MACHINE: Oiler; Grade Oiler; TUNNEL: Conveyor operator; Air filtration equipment operator

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IRON0014-005 07/01/2013

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE, STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
IRONWORKER.....	$ 31.60	21.35

IRON0029-002 07/01/2013

CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKAIKUM COUNTIES

	Rates	Fringes
IRONWORKER	$ 34.12	21.35

IRON0086-002 07/01/2013

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
IRONWORKER	$ 31.60	21.35

IRON0086-004 07/01/2013

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
IRONWORKER	$ 38.14	21.35

LABO0001-002 06/01/2013

ZONE 1:

	Rates	Fringes
Laborers:		
CALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (NORTH OF STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY WAHKIAKUM 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), KITTITAS 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; Fine Graders; Firewatch; Form Setter; Gabian 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.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); 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-Mudman; 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 glas 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

	Rates	Fringes
LABORER (PASCO)		
GROUP 1	$ 22.00	10.65
GROUP 2	$ 24.10	10.65
GROUP 3	$ 24.37	10.65
GROUP 4	$ 24.64	10.65
GROUP 5	$ 24.92	10.65
LABORER (SPOKANE)		
GROUP 1	$ 21.70	10.65
GROUP 2	$ 23.80	10.65
GROUP 3	$ 24.07	10.65
GROUP 4	$ 24.34	10.65
GROUP 5	$ 24.62	10.65

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 squeezcrete 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 Tailhoseman; Scaffold Erector (wood or steel); Stake Jumper; Structural Mover (to include separating foundation, preparation, cribbing, shoring, jacking and unloading of structures); Tailhoseman (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; Aspahlt 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); Pipewrapper; 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 riases and shafts)

GROUP 6 - Powderman

LABO0238-006 06/01/2013

COUNTIES EAST OF THE 120TH MERIDIAN: ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA, WHITMAN

	Rates	Fringes
Hod Carrier	$ 24.10	10.65

LABO0335-001 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

	Rates	Fringes
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

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 Faller and Bucker (hand labor); Toolroom Man (at job site); Tunnel Bullgang (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, Bullgang (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 Nozzleman; 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 Tampers, 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

LABO0335-019 09/01/2013

	Rates	Fringes
Hod Carrier	$ 30.47	10.05

PAIN0005-002 07/01/2013

STATEWIDE EXCEPT CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHKIAKUM COUNTIES

	Rates	Fringes
Painters:		
STRIPERS	$ 28.00	14.33

PAIN0005-004 03/01/2009

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

	Rates	Fringes
PAINTER	$ 20.82	7.44

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* PAIN0005-006 07/01/2013

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

	Rates	Fringes
Painters:		
Application of Cold Tar Products, Epoxies, Polyure thanes, Acids, Radiation Resistant Material, Water and Sandblasting	$ 26.79	10.41
Over 30'/Swing Stage Work	$ 22.20	7.98
Brush, Roller, Striping, Steam-cleaning and Spray	$ 21.69	10.41
Lead Abatement, Asbestos Abatement	$ 21.50	7.98

*$.70 shall be paid over and above the basic wage rates listed for work on swing stages and high work of over 30 feet.

PAIN0055-002 07/01/2013

CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKIAKUM COUNTIES

	Rates	Fringes
Painters:		
Brush & Roller	$ 21.01	8.83
High work - All work 60 ft. or higher	$ 21.61	8.83
Spray and Sandblasting	$ 21.76	8.83

PAIN0055-007 07/01/2013

CLARK, COWLITZ, KLICKITAT, SKAMANIA and WAHKIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY & PARKING LOT STRIPER	$ 33.41	10.36

PLAS0072-004 06/01/2013

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN, AND YAKIMA COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1	$ 26.01	12.14

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, PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON, WAHKIAKUM AND WHATCOM COUNTIES

	Rates	Fringes
Cement Masons:		
CEMENT MASON	$ 36.63	14.55
COMPOSITION, TROWEL MACHINE, GRINDER, POWER TOOLS, GUNNITE NOZZLE	$ 37.13	14.55

TROWLING MACHINE OPERATOR
ON COMPOSITION.....$ 37.13 14.55

PLAS0555-002 06/01/2012

CLARK, KLICKITAT AND SKAMANIA COUNTIES

ZONE 1:

	Rates	Fringes
Cement Masons:		
CEMENT MASONS DOING BOTH COMPOSITION/POWER MACHINERY AND SUSPENDED/HANGING SCAFFOLD..	$ 30.58	17.76
CEMENT MASONS ON SUSPENDED, SWINGING AND/OR HANGING SCAFFOLD.....	$ 30.58	17.76
CEMENT MASONS.....	$ 29.98	17.76
COMPOSITION WORKERS AND POWER MACHINERY OPERATORS...	$ 31.18	17.76

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 WAHKIAKUM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE 1		
GROUP 1.....	$ 26.90	13.75
GROUP 2.....	$ 27.02	13.75
GROUP 3.....	$ 27.15	13.75
GROUP 4.....	$ 27.41	13.75
GROUP 5.....	$ 27.63	13.75
GROUP 6.....	$ 27.79	13.75
GROUP 7.....	$ 27.99	13.75

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 lifrt 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 there of: 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; Dumpsters 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 trcuks: 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

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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* TEAM0174-001 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

	Rates	Fringes
Truck drivers:		
ZONE A:		
GROUP 1:.....	$ 31.68	16.23
GROUP 2:.....	$ 30.84	16.23
GROUP 3:.....	$ 28.03	16.23
GROUP 4:.....	$ 23.06	16.23
GROUP 5:.....	$ 31.23	16.23

ZONE B (25-45 miles from center of listed cities*): Add $.70 per hour to Zone A rates.
ZONE C (over 45 miles from centr 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
EVERETT	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

GROUP 2 - Bulllifts, or similar equipment used in loading or unloading trucks, transporting materials on job site; Dumpsters, and similar equipment, Tournorockers, Tournowagon, Turnotrailer, 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.

TEAM0690-004 01/01/2013

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT KITTITAS, 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)

GROUP 3: Auto Crane (2000 lbs. capacity); Buggy Mobile & Similar; Bulk Cement Tanks & Spreader; Dumptor (6 yds. & under); Flat Bed Truck with Hydraullic 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: Dumptor (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 oeprated 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 additon 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 spash 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

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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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.

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

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.

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END OF GENERAL DECISION