



Prepared By:
City of Arlington
Department of Public Works
Engineering Division

67th Ave Phase III Reconstruction

Contract Provisions

City Project #: P02.341
TIB Project #:9-P-817(004)-1
Federal Aid # STPUS-2699 (001)

Final Check Submittal

April 24, 2012

Issued for Bid

June 30, 2012

Approved for Construction

James X Kelly, PE
Public Works Director

June 30, 2012

Date

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PART I

GENERAL INFORMATION

ADVERTISEMENT FOR BID

City of Arlington

67th Ave Phase III Reconstruction – Project No. P02.341

Notice is hereby given that sealed proposals will be received by the City of Arlington, at the Permit Center located on the First Floor of City Hall at 238 North Olympic Avenue, Arlington, Washington, 98223, until **2:00 P.M., local time** on **XXXX XX, 2012**, for furnishing the necessary labor, materials, equipment, tools, and guarantees thereof to perform the project.

The work to be performed under this contract shall include trail construction, pavement construction, drainage improvements, utility improvements, signal and illumination construction, driveway reconstruction, fish passage culvert installation, wetland mitigation and other work. All work shall be done in accordance with the Special Provisions of the Bid Documents, the 2010 Standard Specifications for Road, Bridge, and Municipal Construction, including the amendments thereto, and the City of Arlington Design and Construction Standards and Specifications. The Engineer's Estimate for the project is \$7,463,000 for base bid and additives.

All bidding and construction is to be performed in compliance with the Contract Documents for this project and any addenda issued thereto, which are on file with the City of Arlington Public Works Department.

Proposals received after the date and time above stated will not be considered. Immediately following the deadline for submission, the proposals will be publicly opened and read aloud in the Council Chambers of the City of Arlington located at 110 East Third Street, Arlington, Washington. Proposals must be submitted on the form provided with the contract documents. All proposals must be accompanied by a bid deposit for not less than, five percent (5%) of the total amount bid, including alternates. Refer to Instructions to Bidders for more information. Should the successful Bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid deposit shall be forfeited to the City of Arlington.

Plans and specifications are available for viewing only at the City of Arlington Permit Center, 1st Floor, Arlington City Hall, 238 North Olympic Ave., Arlington, Washington. Purchase of Contract Documents are available through Builders Exchange of Western Washington.

Free-of-charge access to bidding information (plans, specifications, addenda, and Bidders List) is available through the City of Arlington's on-line plan room. Free-of-charge access is provided to Prime Bidders, Subcontractors, and Vendors by going to www.bxwa.com and clicking on "Posted Projects", "Public Works", and "City of Arlington". 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.

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

The City of Arlington expressly reserves the right to reject any and all bids, to waive minor irregularities or informalities, and to further make award of the project to the lowest responsible Bidder as it best serves the interest of the City of Arlington. No proposal may be withdrawn after the time stated above, or before Award of Contract, unless said award is delayed for a period exceeding sixty (60) calendar days after opening of the proposals, or Bidder withdraws proposal due to error in accordance with Section 1-03.1 of the WSDOT Standard Specifications.

Barbara Tolbert, Mayor

Published XXXX XX, 2012 and XXXX XX,
2012:
Seattle Daily Journal of Commerce
Everett Herald

Published XXXX XX, 2012:
Arlington Times

INSTRUCTIONS TO BIDDERS

1. **Form of Proposal and Signature.** The proposal shall be submitted on the form provided by the City of Arlington and shall be enclosed in a sealed envelope marked and addressed as hereinafter directed. The Bidder shall state in words and figures the Base Bid and alternates for which the Bidder proposes to supply the labor, materials, supplies, or machinery, and perform the work required by the specifications. The Bidder shall provide a bid for all bid items including alternates, or proposal will be deemed non-responsive. If the words and figures do not agree in the proposal, the words shall govern and the figures shall be disregarded. The City of Arlington reserves the right to correct any arithmetic errors. If the proposal is made by an individual it shall be signed and the individual's full name and address shall be given; if it is made by a partnership it shall be signed with the partnership name by a duly authorized partner, who shall also sign his or her own name, and the name and address of each partner shall be given; and if it is made by a corporation or a limited liability company the name of the corporation or limited liability company shall be signed by its duly authorized officer, officers, or members and the names and titles of all officers or members of the corporation limited liability company shall be given. No proposal or modification by fax or e-mail will be considered.

2. **Preparation of the Proposal.** Blank spaces in the proposal shall be properly filled. The written text of the proposal must not be changed and no additions shall be made to the items mentioned therein. Conditions, limitations or provisions attached to a proposal will cause its rejection. Alterations by erasure or interlineations must be explained or noted in the proposal over the signature of the Bidder. Alternative proposals will not be considered. No proposal received after the time named or at any place other than the place stated in the Advertisement for Bid will be considered. All bids will be opened in the presence of the bidders' representatives who choose to attend, at the time and in the place specified in the bidding documents. The bidder's representatives who are present shall sign a register evidencing their attendance. The City of Arlington reserves the right to waive any informality in any bid, to reject any or all proposals, and to make award to the lowest responsible Bidder as the interest of the City of Arlington may require. Where bonds are required the Bidder shall name in its proposal package the surety or sureties who have agreed to furnish said bonds.

Prevailing wages shall be paid to all workers. Prevailing wage rates for Snohomish County and Davis Bacon can be obtained within Appendix A and from the following links, whereby the contractor shall utilize the higher rate for each Job Classification:

<http://www.lni.wa.gov/TradesLicensing/PrevWage/basics/default.asp>

<http://www.dol.gov/whd/programs/dbra/>

3. **Questions.** Questions shall be submitted in writing to the Project Coordinator, contact information shown below, and be received at least one week prior to the specified bid opening date. Questions received after this date may not be responded to. Responses to questions will be submitted in writing by the City either directly or through addendum; verbal responses shall not be considered official.

4. **Withdrawal of Bid.** Withdrawal of the proposal shall be in accordance with Section 1-02.10 of the 2012 edition of the WSDOT standard specifications.

5. **Lowest Responsible Bidder.** The successful bidder will be the bidder submitting the lowest responsible bid for the Preference, listed in the order shown in the Bid Proposal, which is within the amount of Available Funds for the project to be announced at the time of the bid opening. Available Funds will be announced immediately prior to the opening of bids.

In selecting the responsible Bidder, consideration will be given to the general competency of the Bidder for the performance of the work covered by the proposal, and the Bidder's financial standing, if requested. To receive favorable consideration, a Bidder must present evidence satisfactory to the City of Arlington that the Bidder and its associates are personally competent to manage the proposed undertaking and to carry it forward to a successful conclusion. Professional integrity and honesty of purpose shall be essential requirements.

A showing of adequate financial resources may be requested by the City of Arlington, but will not alone determine whether a Bidder is competent to undertake the proposed work. Each Bidder must furnish a record of past performance and experience in the form required. To this end, each proposal, except as noted below, shall be supported by a statement of the Bidder's experience on the form provided. This form, completely filled out, must be

INSTRUCTIONS TO BIDDERS (CON'D)

submitted along with the proposal. Incomplete or false statements submitted in connection with a proposal may, at the option of the City of Arlington, be sufficient cause for its rejection. The City of Arlington shall be the final authority with regard to whether a bid is responsive to the Advertisement for Bid and as to whether a Bidder is a responsible Bidder under the conditions of this bid.

6. **Bid Deposit.** As a guarantee of good faith, each Bidder shall submit with its proposal an unconditional certified or cashier's check drawn on a solvent state or national bank, or the Bidder may furnish a bond with a company acceptable to the City of Arlington in the sum stated in the Advertisement for Bid and these contract documents, payable to the City of Arlington, said check or bond to be held uncollected until it becomes subject to disposal as herein provided. Any condition or limitation placed upon said check or bond may render it informal and may, at the option of the City of Arlington result in the rejection of the proposal under which such check is submitted. If a Bidder to whom an award is made fails or refuses to execute the contract and furnish the required bond, all within the time stated herein, said check or bond and the monies represented thereby shall be and remain the property of the City of Arlington and shall be subject to deposit. The amount thereof is agreed to by the Bidder as liquidated damages due the City of Arlington on account of the delay in the execution of the contract and bond, and in the performance of the work hereunder, resulting from such failure or refusal. The check or bond of a Bidder to whom contract has been awarded will be returned to the Bidder after all of the acts, for the performance of which said check is required, have been fully performed. As soon as the bid prices are compared, the City of Arlington will return the deposits of all except the three lowest responsible Bidders. When the Contract is executed, the deposits of the two remaining unsuccessful Bidders will be returned. The liability of the City of Arlington in connection with the said checks shall be limited to the return of the checks as herein provided.

7. **Execution of Contract.** A Bidder to whom the award is made shall be presented three official copies of the written contract with the City of Arlington in the form of Contract attached hereto and shall execute and return to the City of Arlington along with a good and approved bonds as required in the following paragraph, all in accordance with the provisions hereof within seven (7) calendar days of the Notice of Award or such additional time as may be allowed by the City of Arlington. Upon receipt of the signed contract and subsequent signature by the Mayor the City of Arlington will return a copy of the fully executed contract to the Bidder.

If a Bidder to whom the award is made fails or refuses to enter into contract as herein provided, or to conform to any of the stipulated requirements in connection therewith, its check, deposit, or Bid Bond shall become the property of the City of Arlington as provided herein, the award will be annulled, and in the discretion of the City of Arlington an award may be made to the Bidder whose proposal is next most acceptable to the City of Arlington; and such Bidder shall fulfill every stipulation embraced herein as if the Bidder were the party to whom the first award was made. A corporation to which an award is made will be required, before the contract is finally executed, to furnish evidence of its corporate existence and of the authority of the officer signing the contract and bond for the corporation to so sign.

8. **Performance Bond and Payment Bond.**

(a) A Bidder to whom contract is awarded shall within the time mentioned in the preceding paragraph furnish performance and payment bonds on forms included in the Contract Documents with a responsible corporate surety or corporate sureties conditioned upon the faithful performance by the said Bidder of all covenants and stipulations in the contract. Said bond shall be in the amount of 100 percent of the Contract Amount, with a Corporate Surety approved by the City of Arlington.

(b) The surety or sureties on the bond furnished must be satisfactory to the City of Arlington. The required bond shall be furnished by the Bidder to whom contract has been awarded at its own cost and expense.

INSTRUCTIONS TO BIDDERS (CON'D)

9. **Address and Marking of Proposal.** The envelope enclosing the proposal **MUST** be sealed and addressed as follows:

**67th Ave Phase III Reconstruction
Attn: Cristy Brubaker
City of Arlington
Permit Center
238 North Olympic Avenue
Arlington, WA 98223**

The proposal **MUST** be delivered to the address and department listed above by the time stated in the Advertisement for Bid. The time clock located in the department listed above shall be the official time clock. Submittals received after the stated deadline will not be accepted. Delivery by USPS, UPS, FedEx, or other shipping carrier is accepted, however, it must be delivered to the stated department and signed in by the time stated in the Advertisement for Bid. Delivery to any other location or department will not be accepted. The proposal envelope **MUST** be plainly marked in the **upper left hand corner** with the following, as listed in the Advertisement for Bid:

Bidder Name: *(Fill in)*
Bidder Address: *(Fill in)*
Project Name: *(Fill in)*
Bid Date: *(Fill in)*
Bid Time: *(Fill in)*
Project Number: *(Fill in)*

All bid submittal items shall be enclosed in the same envelope with the proposal. Refer to Bidder's checklist

10. **Complete Contract Documents.** It shall be the responsibility of the Bidder to verify the completeness of its set of Contract Documents from the Table of Contents therein and neither the City of Arlington nor any of its officers or consultants shall be held responsible for any omissions unless such omission has been called to the attention of the City of Arlington prior to the submission of bids.

11. **Corrections, Interpretations and Addenda.** Any omissions, discrepancies or need for interpretation should be submitted in writing to the attention of the Public Works Coordinator. Written addenda to clarify questions which arise will then be issued.

All addenda to these specifications received by the Bidder must be listed on the space provided on the Proposal Form.

All interpretation or explanations of the Contract Document shall be in the form of an addendum and no oral statements by the Owner, Project Manager, or other representative of the Owner shall, in any way modify the contracts Documents, whether made before or after letting the Contract.

12. **Submittals.** The successful Bidder shall supply construction material submittals for approval by the City of Arlington within fourteen (14) calendar days after the Execution of Contract.

13. **Project Coordinator.** Notices as required in the Contract Documents shall be transmitted to:

Cristy Brubaker
Public Works Coordinator
City of Arlington
238 N. Olympic Ave
Arlington, WA 98223
(360) 403-3503
cbrubaker@arlingtonwa.gov

PART II
BID PROPOSAL

BID PROPOSAL CHECKLIST

1. PROPOSAL FORMS

The Bidder shall submit the following forms, which must be executed in full and submitted with the proposal.

- Deposit or Bid Bond
- Non-Collusion
- Certification for Federal Aid Projects
- Disadvantage Business Enterprise Utilization Certification
- Disadvantage Business Enterprise Written Confirmation Document
- Statement of Bidder's Qualifications
- Proposal Form
- Subcontractor List

DEPOSIT OR BID BOND FORM

DEPOSIT STATEMENT

Herewith find deposit in the form of certified check or cashier's check in the amount of \$ _____, which amount is not less than five percent of the total bid.

SIGN HERE: _____

RETURN OF DEPOSIT

_____, 20__.

Received return of deposit in the sum of \$ _____

BID BOND

KNOW ALL PEOPLE BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held firmly bound unto the City of Arlington, a municipal corporation of the State of Washington, in the penal sum of 5% of total bid amount, incl. alternates, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for:

Airport Blvd Phase I (P02.342)

according to the terms of the bid made by the Principal therefore, the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and award and shall give bond for the faithful performance thereof, with Surety or Sureties approved by the Obligee, or if the Principal shall, in case of failure to so do, pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect, and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated damages, the amount of this bond.

SIGNED, SEALED, AND DATED THIS _____ DAY OF _____, 20__.

_____ Principal

_____ Surety

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.

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-LLLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

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

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

Local Agency Disadvantaged Business Enterprise Utilization Certification

To be eligible for award of this contract the bidder must fill out and submit, as part of its bid proposal, the following Disadvantaged Business Enterprise Utilization Certification relating to Disadvantaged Business Enterprise (DBE) requirements. The Contracting Agency shall consider as non-responsive and shall reject any bid proposal that does not contain a DBE Certification which properly demonstrates that the bidder will meet the DBE participation requirements in one of the manners provided for in the proposed contract. The Bidder must submit good faith effort documentation with the DBE Utilization Certification ***only in the event*** the bidder's efforts to solicit sufficient DBE participation has been unsuccessful. The successful bidder's Disadvantage Business Enterprise Utilization Certification shall be deemed a part of the resulting contract. Information on certified firms is available from OMWBE, telephone 360-753-9693 or Toll Free 1-866-208-1064.

_____ certifies that the Disadvantaged Business Enterprise (DBE)
 (Box 1) Name of Bidder

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

Column 1 Name of DBE Certificate Number	Column 2 Project Role (Prime, Joint Venture, Subcontractor, Manufacturer, Regular Dealer)	Column 3 Description of Work	Column 4 Amount to be Applied Towards Goal
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Disadvantaged Business Enterprise Subcontracting Goal: _____ DBE Total \$ _____
Box 2 Box 3

- * Regular Dealer status must be approved prior to bid submittal by the Office of Equal Opportunity, Wash. State Dept. of Transportation, on each contract.
- ** See the section "Crediting DBE Participation Toward Meeting the Goal" in the Contract Document.
- *** The Contracting Agency will utilize this amount to determine whether or not the bidder has met the goal. In the event of an arithmetic difference between this total and the sum of the individual amounts listed above, then the sum of the amounts listed shall prevail and the total will be revised accordingly. Participation in excess of the goal amount will be considered voluntary or race-neutral participation.

Local Agency Disadvantaged Business Enterprise (DBE) Written Confirmation Document

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

Contract Title: _____

Bidder's Business Name: _____

DBE's Business Name: _____

DBE Signature: _____

DBE's Title: _____

Date: _____

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

Description of Work: _____

Amount to be Applied Towards Goal: _____

STATEMENT OF BIDDER'S QUALIFICATIONS

Name of Bidder: _____ Email: _____

Street Address: _____

City, State, Zip: _____

Contact Person: _____ Phone No.: _____ Fax No.: _____

Contractors Registration Number and Expiration Date

Unified Business Identity Number

Federal Tax I.D. Number or Social Security Number

L & I Account Number

Employment Security Account Number

M/WBE Number, if applicable

State Excise Tax Registration Number

DUNS Number

Please provide the names and addresses of the corporation officers, members, partners or principals:

Name/Title

Address

_____	_____
_____	_____
_____	_____

Please provide the name of the Equal Opportunity Officer: _____

Is your company a member of any Union(s)? No Yes – Name(s) and Local(s): _____

Number of years the Company has been engaged in the construction business under the present name: _____

Type of work generally performed by Bidder: _____

Gross Dollar amount of work under contract: Current: _____ Uncompleted: _____

List five major projects, similar in scope to this project, including the gross dollar amount, owner, contact, and contact phone number that has been completed by the Bidder within the last five years.

Contract Amt	Project Name	Owner	Contact	Phone No.

STATEMENT OF BIDDER'S QUALIFICATIONS (continued)

List at least five major pieces of equipment which are anticipated to be used on this project by the Bidder and note which items are owned by the Bidder and which are to leased or rented from others:

Description	Owned	Leased	Rented

Bank References:

Name	Address	Contact	Phone No.

Have you changed your Bonding and/or Insurance within the last three (3) years? No Yes – If yes, please explain:

Name, address and contact information for your Insurance and Surety companies:

Name	Address	Contact	Phone No.

Has your company ever been served with a lawsuit and/or had a judgment and/or a lien placed upon itself and/or any corporation officers, members, partners or principals? No Yes – If yes, please explain:

Has your company ever had a lawsuit served and/or placed a judgment and/or lien upon any public (i.e.: county, city, state, municipality, special district, etc) or governmental entity? No Yes – If yes, please explain:

Please provide the disposition of the case(s): _____

The information contained within this Statement of Bidder's Qualifications is true and accurate to the best of my knowledge.

Name of Bidder

Date

Signed By

Title

Base Bid Schedule

City of Arlington

67th Ave NE Phase III Reconstruction

NOTE: All entries must be typed or written in ink. Unit prices for all items, all extensions, lump sum prices, and the total amount of bid must be shown. Show unit prices in both words and figures; where conflicts occur, the written words will take precedence and be used to determine the total amount bid. The total bid amount shall include all work as included in the contract documents and sales tax.

Item No.	Description	Spec. Ref. Sec.	Approx. Quantity	Unit	Unit Price	Total Price
Misc. Items						
A-1	Mobilization (8%) (Unit Price in Words) _____	1-09.7	1	LS	\$	\$
A-2	Record Drawings (Unit Price in Words) _____	1-05	1	LS	\$	\$
A-3	Roadway Surveying (Unit Price in Words) _____	1-05.4	1	LS	\$	\$
A-4	Licensed Surveying (Unit Price in Words) _____	1-05.4	1	FA	\$20,000	\$20,000
A-5	Utility Potholing (Unit Price in Words) _____	1-05.4	1	FA	\$50,000	\$50,000
A-6	Roadside Cleanup (Unit Price in Words) _____	2-01.3	1	FA	\$70,000	\$70,000
A-7	Property Restoration (Unit Price in Words) _____	1-07.16	1	FA	\$250,000	\$250,000
A-8	Utility Conflicts (Unit Price in Words) _____	1-05.4	1	FA	\$250,000	\$250,000
A-9	Trimming and Cleanup (Unit Price in Words) _____	2-11	1	LS	\$	\$
A-10	Type B Progress Schedule (Unit Price in Words) _____	1-08.3	1	LS	\$	\$
A-11	Training (Unit Price in Words) _____	1-07	800	HR	\$	\$
A-12	SPCC Plan (Unit Price in Words) _____	1-07.15	1	LS	\$	\$
Roadside Development						
A-13	Erosion/Water Pollution Control (Unit Price in Words) _____	8-01	1	FA	\$50,000	\$50,000
A-14	Silt Fence (Unit Price in Words) _____	8-01	4,201	LF	\$	\$
A-15	Inlet Protection (Unit Price in Words) _____	8-01	153	EA	\$	\$
Preparation						
A-16	Clearing and Grubbing (Unit Price in Words) _____	2-01	3	AC	\$	\$
A-17	Removal of Structures and Obstructions (Unit Price in Words) _____	2-02	1	LS	\$	\$
A-18	Sawcutting Existing Pavement (Unit Price in Words) _____	2-02.3	2,050	LF	\$	\$
A-19	Relocating Sign (Unit Price in Words) _____	2-02.3	1	LS	\$	\$
Earthwork						
A-20	Mitigation Excavation Incl. Haul (Unit Price in Words) _____	2-03	260	CY	\$	\$
A-21	Roadway Excavation Incl. Haul (Unit Price in Words) _____	2-03	12,900	CY	\$	\$

Item No.	Description	Spec. Ref. Sec.	Approx. Quantity	Unit	Unit Price	Total Price
A-22	Gravel Borrow Incl. Haul (Unit Price in Words) _____	2-03	2,000	TON	\$	\$
A-23	Structure Excavation Cl. A Incl. Haul (Unit Price in Words) _____	2-09	2,532	CY	\$	\$
A-24	Shoring or Extra Excavation Cl. A (Unit Price in Words) _____	2-09	3,894	SF	\$	\$
	Structure					
A-25	Removing Portion of Existing Wall (Unit Price in Words) _____	2-09	3,000	SF	\$	\$
A-26	Modular Block Wall (Unit Price in Words) _____	8-24	8,547	SF	\$	\$
A-27	Removing and Resetting Beam Guardrail (Unit Price in Words) _____	8-24	570	LF	\$	\$
A-28	Pedestrian Handrail (Unit Price in Words) _____	8-11	130	LF	\$	\$
A-29	Z-Gate (Unit Price in Words) _____	8-12	2	EA	\$	\$
A-30	Widen Existing Fence Gate (Unit Price in Words) _____	8-12	2	EA	\$	\$
A-31	Rolling Chain Link Fence Gate, 30-foot (Unit Price in Words) _____	8-12	2	EA	\$	\$
A-32	Chain Link Fence Type 3 (Unit Price in Words) _____	8-12	1,956	LF	\$	\$
A-33	Chain Link Fence Type 4 with Barbed Wire (Unit Price in Words) _____	8-12	919	LF	\$	\$
A-34	Property Fence (Unit Price in Words) _____	8-12	300	LF	\$	\$
A-35	Remove and Reset Chain Link Fence and Gate (Unit Price in Words) _____	8-12	108	LF	\$	\$
A-36	Bollards (Unit Price in Words) _____	8-12	29	EA	\$	\$
A-37	Reset Mailbox (Unit Price in Words) _____	8-18	4	EA	\$	\$
A-38	Fish Passage Culvert Prairie Creek (Unit Price in Words) _____	7-03.3	1	LS	\$	\$
A-39	Fish Passage Culverts Portage Creek 67th (Unit Price in Words) _____	7-03.3	1	LS	\$	\$
A-40	Fish Passage Culverts Portage Creek 69th (Unit Price in Words) _____	7-03.3	1	LS	\$	\$
A-41	Streambed Sediment (Unit Price in Words) _____	9-03.11	449	TON	\$	\$
	Surfacing					
A-42	HMA Cl. 1/2 In. PG 64-22 (Unit Price in Words) _____	5-04	3,994	TON	\$	\$
A-43	HMA for Approach Cl. 1/2 In. PG 64-22 (Unit Price in Words) _____	5-04	1,300	TON	\$	\$
A-44	Asphalt Treated Base (Unit Price in Words) _____	5-04	3,900	TON	\$	\$
A-45	Pavement Fabric (Unit Price in Words) _____	5-04	172	SY	\$	\$
A-46	Asphalt Cost Price Adjustment (Unit Price in Words) _____	5-04	1	CALC	\$15,000	\$15,000
A-47	Job Mix Compliance Price Adjustment (Unit Price in Words) _____	5-04	1	CALC	\$1	\$1

Item No.	Description	Spec. Ref. Sec.	Approx. Quantity	Unit	Unit Price	Total Price
A-48	Anti-Stripping Additive (Unit Price in Words) _____	5-04	1	CALC	\$1	\$1
A-49	Compaction Price Adjustment (Unit Price in Words) _____	5-04	1	CALC	\$1	\$1
A-50	Cement Conc. Driveway Entrance (Unit Price in Words) _____	8-06	1,000	SY	\$	\$
A-51	Crushed Surfacing Base Course (Unit Price in Words) _____	4-04	6,880	TON	\$	\$
A-52	Crushed Surfacing Top Course (Unit Price in Words) _____	4-04	500	TON	\$	\$
A-53	Cement Conc. Curb and Gutter (Unit Price in Words) _____	8-04	10,400	LF	\$	\$
A-54	Cement Conc. Sidewalk (Unit Price in Words) _____	8-14	2,300	SY	\$	\$
A-55	Porous Asphalt Trail (Unit Price in Words) _____	5-04	5,500	SY	\$	\$
A-56	Planing Bituminous Pavement (Unit Price in Words) _____	5-04.3	200	SY	\$	\$
	Storm					
A-57	Structure Excavation Cl. B Incl. Haul (Unit Price in Words) _____	2-09	1,388	CY	\$	\$
A-58	Shoring or Extra Excavation Cl. B (Unit Price in Words) _____	2-09	32,075	SF	\$	\$
A-59	Catch Basin Type 1 (Unit Price in Words) _____	7-05	51	EA	\$	\$
A-60	Catch Basin Type 2, 48 In. Diam. (Unit Price in Words) _____	7-05	1	EA	\$	\$
A-61	Concrete Inlet (Unit Price in Words) _____	7-05	39	EA	\$	\$
A-62	Water Quality Manhole (Unit Price in Words) _____	7-11	10	EA	\$	\$
A-63	PVC Pipe, 8-In. Diam. (Unit Price in Words) _____	7-04	82	LF	\$	\$
A-64	PVC C-900 Pipe, 8-In. Diam. (Unit Price in Words) _____	7-04	920	LF	\$	\$
A-65	Ductile Iron Pipe, 8-In. Diam. (Unit Price in Words) _____	7-04	35	LF	\$	\$
A-66	PVC Pipe, 12-In. Diam. (Unit Price in Words) _____	7-04	1,818	LF	\$	\$
A-67	PVC C-900 Pipe, 12-In. Diam. (Unit Price in Words) _____	7-04	1,990	LF	\$	\$
A-68	Ductile Iron Pipe, 12-In. Diam. (Unit Price in Words) _____	7-04	137	LF	\$	\$
A-69	PVC Tee, 12-In. Diam. (Unit Price in Words) _____	7-04	13	EA	\$	\$
A-70	PVC Elbow, 12-In. Diam. (Unit Price in Words) _____	7-04	4	EA	\$	\$
A-71	PVC Pipe, 18-In. Diam (Unit Price in Words) _____	7-05	930	LF	\$	\$
A-72	PVC Pipe, 21-In. Diam (Unit Price in Words) _____	7-04	175	LF	\$	\$
A-73	Storm Drain Cleanout (Unit Price in Words) _____	7-01	12	EA	\$	\$
A-74	Perf. Pipe, 8-In. Diam. (Unit Price in Words) _____	7-04	612	LF	\$	\$

Item No.	Description	Spec. Ref. Sec.	Approx. Quantity	Unit	Unit Price	Total Price
A-75	Gravel Backfill for Drain (Unit Price in Words) _____	7-13	1,585	CY	\$	\$
A-76	Filter Fabric (Unit Price in Words) _____	7-04	1,127	SY	\$	\$
A-77	Water Quality Treatment Liner (Unit Price in Words) _____	7-13	1,320	CY	\$	\$
A-78	Section Chamber Infiltration System (Unit Price in Words) _____	7-10	2,253	LF	\$	\$
Environmental						
A-79	Environmental Mitigation (Unit Price in Words) _____	8-01	1	LS	\$	\$
A-80	ESC Lead (Unit Price in Words) _____	8-01	250	DAY	\$	\$
A-81	PSIPE Thuja occidentalis/ARBORVITAE (8') (Unit Price in Words) _____	8-02	73	EA	\$	\$
Utilities						
A-82	Adjust Existing Utility Structure (Unit Price in Words) _____	7-05	50	EA	\$	\$
A-83	3-In. foam board cushion or sandbag between water pipe and fish passage culvert (Unit Price in Words) _____	7-09	3	EA	\$	\$
Traffic						
A-84	Traffic Control Supervisor (Unit Price in Words) _____	1-10	1	LS	\$	\$
A-85	Uniformed Police Officer (Unit Price in Words) _____	1-10	200	HR	\$	\$
A-86	Temporary Traffic Control Devices (Unit Price in Words) _____	1-10	1	LS	\$	\$
A-87	Flaggers and Spotters (min. Bid \$35) (Unit Price in Words) _____	1-10	6,000	HR	\$	\$
A-88	Other Traffic Control Labor (Unit Price in Words) _____	1-10	1,000	HR	\$	\$
A-89	Pedestrian Control and Protection (Unit Price in Words) _____	1-10	1	LS	\$	\$
A-90	Paint Line (Unit Price in Words) _____	8-22	7,200	LF	\$	\$
A-91	Painted Wide Line (Unit Price in Words) _____	8-22	780	LF	\$	\$
A-92	Plastic Stop Line (Unit Price in Words) _____	8-22	230	LF	\$	\$
A-93	Plastic Crosswalk Line (Unit Price in Words) _____	8-22	1,410	SF	\$	\$
A-94	Plastic Traffic Arrow (Unit Price in Words) _____	8-22	24	EA	\$	\$
A-95	Plastic Railroad Crossing Symbol (Unit Price in Words) _____	8-22	1	EA	\$	\$
A-96	Permanent Signing (Unit Price in Words) _____	8-21	1	LS	\$	\$
A-97	Illumination System Complete (Unit Price in Words) _____	8-20	1	LS	\$	\$
Total Base Bid Amount					\$	

Base Bid Schedule B

City of Arlington

67th Ave NE Phase III Reconstruction

NOTE: All entries must be typed or written in ink. Unit prices for all items, all extensions, lump sum prices, and the total amount of bid must be shown. Show unit prices in both words and figures; where conflicts occur, the written words will take precedence and be used to determine the total amount bid. The total bid amount shall include all work as included in the contract documents, but sales tax shall be shown separately.

Item No.	Description	Spec. Ref. Sec.	Approx. Quantity	Unit	Unit Price	Total Price
B-1	Manhole 54 In. Diam. Type 1 (Unit Price in Words) _____	7-15	5	EA	\$	\$
B-2	Manhole 72 In. Diam. Type 1 (Unit Price in Words) _____	7-15	1	EA	\$	\$
B-3	Ductile Iron SS, 24 In. (Unit Price in Words) _____	7-17	1,743	LF	\$	\$
B-4	Connect existing SS (Unit Price in Words) _____	7-17	3	EA	\$	\$
B-5	Ductile Iron WM, 12-In. (Unit Price in Words) _____	7-09	222	LF	\$	\$
B-6	Ductile Iron WM, 10-In. (Unit Price in Words) _____	7-09	70	LF	\$	\$
B-7	Ductile Iron, 10-In. GV (FL X MJ) (Unit Price in Words) _____	7-12	17	EA	\$	\$
B-8	Ductile Iron, 12-In. GV (FL X FL) (Unit Price in Words) _____	7-12	2	EA	\$	\$
B-9	Thrust Block (Unit Price in Words) _____	7-09	6	EA	\$	\$
B-10	Abandon existing WM/lateral (Unit Price in Words) _____	7-09	215	LF	\$	\$
B-11	Remove and replace water meter (Unit Price in Words) _____	7-15	21	EA	\$	\$
B-12	RPBA in Hot Box (Unit Price in Words) _____	7-09	1	EA	\$	\$
B-13	Fire Hydrant Assembly (Unit Price in Words) _____	7-14	6	EA	\$	\$
Sub-Total Schedule B Bid Amount \$						
Sales Tax (8.6%) \$						
Total Schedule B Bid Amount \$						

Additive Schedule C

City of Arlington

67th Ave NE Phase III Reconstruction

NOTE: All entries must be typed or written in ink. Unit prices for all items, all extensions, lump sum prices, and the total amount of bid must be shown. Show unit prices in both words and figures; where conflicts occur, the written words will take precedence and be used to determine the total amount bid. The total bid amount shall include all work as included in the contract documents and sales tax.

Item No.	Description	Spec. Ref. Sec.	Approx. Quantity	Unit	Unit Price	Total Price
C-1	Traffic Signal System Complete (67th & 211th) (Unit Price in Words) _____	8-20	1	LS	\$	\$
C-2	Traffic Signal Modification (67th & 204th) (Unit Price in Words) _____	8-20	1	LS	\$	\$
Total Schedule C Bid Amount \$						

Additive Schedule D

City of Arlington

67th Ave NE Phase III Reconstruction

NOTE: All entries must be typed or written in ink. Unit prices for all items, all extensions, lump sum prices, and the total amount of bid must be shown. Show unit prices in both words and figures; where conflicts occur, the written words will take precedence and be used to determine the total amount bid. The total bid amount shall include all work as included in the contract documents, but sales tax shall be shown separately.

Item No.	Description	Spec. Ref. Sec.	Approx. Quantity	Unit	Unit Price	Total Price
D-1	Fiber optic handhole (Unit Price in Words) _____	8-20	27	EA	\$	\$
D-2	Fiber optic conduit, 4-In. (Unit Price in Words) _____	8-20	5235	LF	\$	\$
D-3	PVC C-900, 4-In. NPW (Unit Price in Words) _____	7-09	32	LF	\$	\$
D-4	8" Gate Valve (Unit Price in Words) _____	7-09	8	EA	\$	\$
D-5	PVC C-900, 6-In. NPW (Unit Price in Words) _____	7-09	4797	LF	\$	\$
Sub-Total Schedule D Bid Amount \$						
Sales Tax (8.6%) \$						
Total Schedule D Bid Amount \$						

Total Bid

City of Arlington

67th Ave NE Phase III Reconstruction

NOTE: All entries must be typed or written in ink.

	Total Base Bid Amount \$
	Total Schedule B Bid Amount \$
	Total Schedule C Bid Amount \$
	Total Schedule D Bid Amount \$
	Grand Total \$

PROPOSAL FORM (CONTINUED)

ADDENDA

Receipt of Addenda numbered and dated below is hereby acknowledged.

Addendum No.	Dated		Addendum No.	Dated		Addendum No.	Dated	

BID DEPOSIT

A Bid Deposit in an amount not less than five percent (5%) of the Total Bid Amount(s) based upon the Lump Sum or Bid Schedule approximate quantities at the unit prices including applicable taxes and in the form indicated on the following pages.

Cashier's Check No.: _____ \$ _____ Payable to the Owner

Certified Check No.: _____ \$ _____ Payable to the Owner

Bid Bond No.: _____ BY SURETY IN THE AMOUNT OF NOT LESS THAN 5% OF THE TOTAL BID

PROPOSAL FORM (Continued)

If Sole Proprietor, Partnership, or Limited Liability Company:

IN WITNESS hereto, the undersigned has set his (its) hand this _____ day of _____, 20__.

Signature of Bidder

Title

If Corporation:

IN WITNESS WHEREOF, the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers this _____ day of _____, 20__.

Attest:

Name of Corporation

WITNESS

Signature of Corporate Officer

Title

Sworn to before me this _____ day of _____, 20__.

Notary Public in and for the State of Washington

residing at _____

My Commission Expires _____

NOTE:

1. If the Bidder is a co-partnership, so state, giving the name under which business is transacted and have notarized.
2. If the Bidder is a corporation, this Proposal must be executed by a duly authorized officer, have the Corporate Seal affixed and be notarized.

Local Agency Name
Local Agency Address

Local Agency Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name _____

Failure to list subcontractors who are proposed to perform the work of HVAC (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) 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. The requirement to name the prime contract bidder's proposed HVAC, plumbing and electrical subcontractors applies only to proposed HVAC, plumbing, and electrical subcontractors who will contract directly with the prime contract bidder submitting the bid to the public entity.

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

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 in the opinion of the enforcement agency PVC or metal conduit, junction boxes, etc, are considered electrical equipment and must be installed by a licensed electrical contractor, even if the installation is for future use and no wiring or electric current is connected during the project.
 A licensed electrical contractor must be listed to perform the work.

PART III
CONTRACT



CONTRACT CHECKLIST

CONTRACT FORMS

All of the following forms are to be executed with this proposal except the Certificate of Insurance which is to be provided after the Contract is awarded and prior to the Notice to Proceed.

- Contract
- Performance Bond
- Payment Bond
- Insurance Coverage Questionnaire
- Certificate of Insurance

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CONSTRUCTION CONTRACT

THIS CONTRACT, dated this _____ day of _____, 20__, is by and between the City of Arlington, a municipal corporation of the State of Washington, hereinafter referred to as the CITY, and _____ referred to as the CONTRACTOR.

WITNESSETH:

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

- I. The Contractor shall do all work and furnish all tools, materials, and equipment for:

67th Ave Phase III Reconstruction
Project Number P02.341

in accordance with and as described in the Contract Documents referenced herein, the Arlington Design and Construction Standards, and the standard specifications of the Washington State Department of Transportation, all of which are by this reference incorporated herein and made part hereof and, shall perform any changes in the work in accord with the Contract Documents.

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 these Contract Documents except those items mentioned therein to be furnished by the CITY.

- II. The CITY hereby promises and agrees with the CONTRACTOR to employ, and does employ the CONTRACTOR to provide the materials and to do and cause to be done the above referenced project and to complete and finish the same in accord with the attached Contract Documents herein contained and hereby contracts to pay for the same according to the attached Contract Documents and the schedule of unit or itemized prices at the time and in the manner and upon the conditions provided for in this contract.

- III. The CONTRACTOR for himself/herself, and for his/her heirs, executors, administrators, successors, and assigns, does hereby agree to full performance of all covenants required of the CONTRACTOR in the contract.
- IV. The Contractor has read all of the Contract Documents and is fully aware of the scope of work required under this contract.
- V. It is further provided that no liability shall attach to the CITY by reason of entering into this contract, except as provided herein.
- VI. CONTRACTOR is and shall be at all times during the term of this Agreement an independent contractor.
- VII. No change, alteration, modification or addition to the CONTRACT will be effective unless it is in writing and properly signed by the CITY.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date first above written.
CITY OF ARLINGTON, WASHINGTON: CONTRACTOR:

By _____ By _____
Barbara Tolbert, Mayor

Attest

Kristin Banfield, City Clerk

Approved as to Form

City Attorney

STATE OF WASHINGTON)
)
COUNTY OF SNOHOMISH)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated this ____ day of _____, 20__

Notary Public in and for the State of
Washington
Residing in _____
My appointment expires _____

STATE OF WASHINGTON)
)
COUNTY OF SNOHOMISH)

I certify that I know or have satisfactory evidence that Barbara Tolbert, Mayor is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated this ____ day of _____, 20__

Notary Public in and for the State of
Washington
Residing in _____
My appointment expires _____

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PERFORMANCE BOND

KNOW ALL PEOPLE BY THESE PRESENTS: That whereas the City of Arlington has awarded to _____ (CONTRACTOR), hereinafter designated as the "Principal," a contract for the construction of the Project designated

67th Ave Phase III Reconstruction

Project Number P02.341

all as hereto attached and made a part hereof, and whereas said principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract:

NOW, THEREFORE, we the principal and _____

(Surety)

a corporation, organized and existing under and by virtue of the laws of the State of Washington, duly authorized to do business in the State of Washington, as surety, are held and firmly bound unto _____, a municipal corporation of the State of Washington, in the sum of:

(Total Amount of Contract Sum)

Dollars (\$ _____), lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by those presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the above-bonded principal, its heirs, executors, administrators, successors, or assigns shall in all things stand to and abide by and well and truly keep and perform the undertakings, covenants, and terms and conditions in the said contract and shall faithfully perform all the provisions of such contract and shall also well and truly perform and fulfill all the undertakings, covenants, and terms and conditions of any and all duly authorized modifications of said contract that may hereafter be made, at the time and in the manner therein specified, and shall pay all laborers, mechanics, subcontractors, and material suppliers and all persons who shall supply such person or persons or subcontractors with provisions and supplies for the carrying on of such work on their part and shall indemnify and hold harmless the City of Arlington, their officers and agents following the final acceptance of such work, then this obligation shall become null and void; otherwise, it shall remain in full force and effect.

And the said surety, for value received, hereby further stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed hereunder or the specifications accompanying the same shall in any way affect its obligation on the bond, and it does hereby waive notice of any change, extension of time, alterations, or additions to the terms of the contract or the work or to the specifications.

IN WITNESS WHEREOF, the parties have executed this agreement
this _____ day of _____, 20__.

NOTE: Please **type or print below the signatures** the names of parties executing this bond, together with official title of each.

Principal: _____

Title: _____

Principal: _____

Title: _____

Principal: _____

Title: _____

Approved as to Form

City of Arlington

By: _____

Title: _____

Date: _____

Surety: _____

Address: _____

Telephone: _____

By: _____

Title: _____



PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we, _____
as Principal, hereinafter called Principal, and _____ as Surety,
hereinafter called Surety, are hold and firmly bound unto _____ City of Arlington _____, hereinafter called
City, in the penal sum of _____ for the payment of which sum
well and truly to be made, we the Principal and Surety above named jointly and severally bind ourselves, our
heirs, executors, administrators, and successors, jointly and severally, by these presents.

WHEREAS, The City has requested and the Principal has agreed to perform certain work as
described in the CONTRACT, a copy of which is attached hereto and incorporated herein by this reference.

NOW, THEREFORE, if the Principal shall pay the full amount of all sums which become due for the
said improvements within the time prescribed in the CONTRACT then this obligation shall be null and void
upon receipt of a written discharge from the City, otherwise to be and to remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this agreement
this _____ day of _____, 20__.

NOTE: Please **type or print below the
signatures** the names of parties executing this
bond, together with official title of each.

Principal: _____

Title: _____

Principal: _____

Title: _____

Principal: _____

Title: _____

Approved as to Form

City of Arlington

By: _____

Title: _____

Date: _____

Surety: _____

Address: _____

Telephone: _____

By: _____

Title: _____

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INSURANCE COVERAGE QUESTIONNAIRE

NOTE: THIS QUESTIONNAIRE MUST BE COMPLETED AND ATTACHED TO CERTIFICATE OF INSURANCE.

For: _____
(Name of Insured)

Project Title: 67th Ave Phase III Reconstruction (P02.341)

Project Owner: City of Arlington

Are the following coverage's and/or conditions in effect?

	Yes	No
The Policy form is ISO Commercial General Liability form GC – 2010. If No, attach a copy of the policy with required coverage's clearly identified		
The Owner, its officials, officers, employees, consultants, and volunteers are additional insured's as respects (a) activities performed for the Owner by or on behalf of the Named Insured, (b) products and completed operations of the Named Insured, or (c) premises, owned, leased, or used by the Named Insured.		
Products Completed operation coverage		
Cross Liability clause (or equivalent wording)		
Personal Injury Liability Coverage (with employee exclusion deleted)		
Broad Form Damage with X, C U Hazards included		
Blanket Contractual Liability coverage applying to this contract or Contractual Liability Coverage applying to this contract		
Employers Liability - Stop Gap		
45 calendar days written notice of cancellation to the Owner		

Deductibles
or SIRS: GL _____ AL _____ Excess _____

Insurer's Best Rating GL _____ AL _____ Excess _____

This questionnaire is issued as a matter of information. This questionnaire is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies indicated on the attached Certificate of Insurance.

Agency/Broker

Completed by (type)

Address

Completed by (Signature)

Name of person to contact

Telephone Number

PART IV
CONTRACT PROVISIONS

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

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ATTACHMENTS

- A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

I. GENERAL

1. 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.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

- Section I, paragraph 2;
- Section IV, paragraphs 1, 2, 3, 4, and 7;
- Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 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 DOL, or the contractor's employees or their representatives.

6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

- a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or
- b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all

related subcontracts of \$10,000 or more.)

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 and 41 CFR 60) 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 Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American 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 State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his 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, preapprenticeship, and/or on-the-job training."

2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO 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 minority group employees.

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 minority groups 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 minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group 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, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group 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 his 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 his avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

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. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

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 minority group and women employees 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 his/her best efforts to obtain the cooperation of such unions to increase opportunities for

minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. 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 best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best 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 SHA 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 minority and women 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 minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) 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 SHA.

8. 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.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. 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 completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number 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;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA

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. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers 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 (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) 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. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, 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 paragraphs 4 and 5 of this Section IV.

b. 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.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification 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 DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour 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.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional 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. Said 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.

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. 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 or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a 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.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) 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 DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/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 Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees 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 employee 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 listed in 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 or subcontractor 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-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level 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 for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) 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 DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. 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.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level 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-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor 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. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. 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.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor 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, as 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 SHA contracting officer 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.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her 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, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies 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 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of 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. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found 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 and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such 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 the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less than the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. 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 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, 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 SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions 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.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

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 State. 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).

a. "Its own organization" shall be construed to include only workers employed and paid directly 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, assignee, or agent of the prime contractor.

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 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 VII 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 SHA 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 SHA 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 SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

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 SHA 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. 333).

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. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

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, the following notice 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:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

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 not more than \$10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. **Instructions for Certification - Primary Covered Transactions:**

(Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary 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 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 primary 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 department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this

transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary 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," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary 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 primary 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 Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. 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.

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.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement 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;

c. 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 1b of this certification; and

d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary 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 Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

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," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

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.

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 may decide the method and

frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

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 Covered Transactions:

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 participation in this transaction 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.

* * * * *

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(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 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 recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT PREFERENCE FOR
APPALACHIAN CONTRACTS**
(Applicable to Appalachian contracts only.)

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 he 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, he 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 1 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 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.

PART V

AMENDMENTS TO THE STANDARD

SPECIFICATIONS

1 **INTRODUCTION**

2 The following Amendments and Special Provisions shall be used in conjunction with the
3 2012 Standard Specifications for Road, Bridge, and Municipal Construction.
4

5 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**
6

7 The following Amendments to the Standard Specifications are made a part of this contract
8 and supersede any conflicting provisions of the Standard Specifications. For informational
9 purposes, the date following each Amendment title indicates the implementation date of the
10 Amendment or the latest date of revision.
11

12 Each Amendment contains all current revisions to the applicable section of the Standard
13 Specifications and may include references which do not apply to this particular project.
14

15 **Section 1-01, Definition and Terms**
16 **January 2, 2012**

17 **1-01.3 Definitions**

18 The definition for “**Bid Documents**” is revised to read:
19

20 The component parts of the proposed Contract which may include, but are not limited
21 to, the Proposal Form, the proposed Contract Provisions, the proposed Contract Plans,
22 Addenda, and, for projects with Contracting Agency subsurface investigations, the
23 Summary of Geotechnical Conditions and subsurface boring logs (if any).
24

25 **Section 1-02, Bid Procedures and Conditions**
26 **January 2, 2012**

27 **1-02.4(2) Subsurface Information**

28 The first two sentences in the first paragraph are revised to read:
29

30 If the Contracting Agency has made subsurface investigation of the site of the proposed
31 work, the boring log data, soil sample test data, and geotechnical recommendations
32 reports obtained by the Contracting Agency will be made available for inspection by the
33 Bidders at the location specified in the Special Provisions. The Summary of
34 Geotechnical Conditions, as an appendix to the Special Provisions, and the boring logs
35 shall be considered as part of the Contract.
36

37 **Section 1-03, Award and Execution of Contract**
38 **April 2, 2012**

39 **1-03.1(1) Tied Bids**

40 This section’s title is revised to read:
41

42 **1-03.1(1) Identical Bid Totals**
43

1 **Section 1-08, Prosecution and Progress**

2 **April 2, 2012**

3 **1-08.1 Subcontracting**

4 In the eighth paragraph, "Contracting Agency" is revised to read "WSDOT".

6 **1-08.3(1) General Requirements**

7 The following new paragraph is inserted after the first paragraph:

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

11 **1-08.7 Maintenance During Suspension**

12 The second paragraph is revised to read:

14 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.

20 **Section 1-09, Measurement and Payment**

21 **April 2, 2012**

22 **1-09.2(5) Measurement**

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

25 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.

28 **Section 3-04, Acceptance of Aggregate**

29 **April 2, 2012**

30 **3-04.3(7)D4 An Entire Lot**

31 The last sentence is deleted.

33 **3-04.5 Payment**

34 In the second paragraph, the reference "Section 3-04.3(6)C " is revised to read "Section 3-04.3(8)".

37 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 Geosynthetic Retaining Wall	4000	2000	\$30	\$60
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40
41
42

1 **Section 5-01, Cement Concrete Pavement Rehabilitation**
2 **April 2, 2012**

3 **5-01.3(2)B Portland Cement Concrete**

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

5
6 The lower Specification limit for compressive strength shall be 4,000-psi.

7
8 The last two sentences in the third paragraph are deleted.

9
10 **5-01.3(11) Concrete Slurry**

11 This section including title is revised to read:

12
13 **5-01.3(11) Concrete Slurry and Grinding Residue**

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

18
19 The Contractor shall collect the concrete slurry and grinding residue from the pavement
20 surface and dispose of it in accordance with Section 2-03.3(7)C.

21
22 Opening to traffic shall meet the requirements of Section 5-05.3(17).

23
24 **Section 5-04, Hot Mix Asphalt**

25 **April 2, 2012**

26 **5-04.3(10)B3 Longitudinal Joint Density**

27 The section including title is revised to read:

28
29 **5-04.3(10)B3 Vacant**

30
31 **Section 6-02, Concrete Structures**

32 **April 2, 2012**

33 **6-02.3(16) Plans for Falsework and Formwork**

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

35
36 4. Conditions required by other Sections of 6-02.3(17), Falsework and Formwork.

37
38 Item's No. 5, 6, 7, and 8 in the seventh paragraph are deleted.

39
40 The following paragraph is inserted after the seventh paragraph:

41
42 Plan approval can be done by the Project Engineer for footings and walls 4 to 8 feet high
43 (excluding pedestal height) provided:

- 44
45 1. Concrete placement rate is 4 feet per hour or less.
46
47 2. Facing is $\frac{3}{4}$ -inch plywood with grades as specified per Section 6-02.3(17)l.
48

- 1 3. Studs, with plywood face grain perpendicular, are 2 by 4's spaced at 12 inches.
2
3 4. Walers with 3,000 pound safe working load ties spaced at 24 inches are two 2 by
4 4's spaced at 24 inches.
5

6 **6-02.3(17)F Bracing**

7 In the first paragraph, the phrase "per Section 6-02.3(17)I" is revised to read "in accordance
8 with Section 6-02.3(17)I".
9

10 This section is supplemented with the following new sub-section:
11

12 **6-02.3(17)F5 Temporary Bracing for Bridge Girders During Diaphragm and**
13 **Bridge Deck Concrete Placement**

14 Prestressed concrete girders shall be braced to resist forces that would cause rotation
15 or torsion in the girders caused by the placing of precast concrete deck panels and
16 concrete for the bridge deck.
17

18 Bracing shall be designed and detailed by the Contractor and shall be shown in the
19 falsework/formwork plans submitted to the Engineer for approval. These braces shall be
20 furnished, installed, and removed by the Contractor at no additional cost to the
21 Contracting Agency. The Contractor may consider the bracing effects of the
22 diaphragms in developing the falsework/formwork plans. The Contractor shall account
23 for the added load from concrete finishing machines and other construction loadings in
24 the design of the bracing.
25

26 Falsework support brackets and braces shall not be welded to structural steel bridge
27 members or to steel reinforcing bars.
28

29 **6-02.3(17)F4 Temporary Bracing for Bridge Girders**

30 This section including title is revised to read:
31

32 **6-02.3(17)F4 Temporary Bracing for Bridge Girders During Erection**

33 Steel girders shall be braced in accordance with Section 6-03.3(7)A.
34

35 Prestressed concrete girders shall be braced sequentially during girder erection. The
36 bracing shall be designed and detailed by the Contractor and shall be shown in the
37 falsework/formwork plans submitted to the Engineer for approval. The Contractor shall
38 furnish, install, and remove the bracing at no additional cost to the Contracting Agency.
39

40 At a minimum, the Contractor shall brace girders at each end and at midspan to prevent
41 lateral movement or rotation. This bracing shall be placed prior to the release of each
42 girder from the erection equipment. If the bridge is constructed with cast-in-place
43 concrete diaphragms, the bracing may be removed once the concrete in the
44 diaphragms has been placed and cured for a minimum of 24 hours.
45

46 **6-02.3(25)N Prestressed Concrete Girder Erection**

47 The third sentence in the fifth paragraph is revised to read:
48

49 The girders shall be braced in accordance with Sections 6-02.3(17)F4 and 6-
50 02.3(17)F5.
51

1 **6-02.3(26)E5 Leak Tightness Testing**

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

3

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

6

7 The second paragraph is revised to read:

8

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

24

25 **Section 6-03, Steel Structures**

26 **April 2, 2012**

27 **6-03.3(28)A Method of Shop Assembly**

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

29

30 **For Trusses and Girders** – After the first stage has been completed, each subsequent
31 stage shall be assembled to include: at least one truss panel or girder shop section of
32 the previous stage and two or more truss panels or girder shop sections added at the
33 advancing end.

34

35 **Section 6-07, Painting**

36 **April 2, 2012**

37 **6-07.3(9)A Paint System**

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

39

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

42

43 **6-07.3(10)H Paint System**

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

45

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

48

1 **Section 6-10, Concrete Barrier**

2 **April 2, 2012**

3 **6-10.5 Payment**

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

5

6 "Conc. Class 4000 ____"

7

8 **Section 6-12, Noise Barrier Walls**

9 **January 2, 2012**

10 **6-12.3(3) Shaft Construction**

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

12

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

17

18 **6-12.5 Payment**

19 This section is supplemented with the following:

20

21 "Removing Noise Barrier Wall Shaft Obstructions", estimated.

22

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

32

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

39

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

44

- 45 1. the dollar amount estimated by the Contracting Agency has been exceeded,
46 and;
47
48 2. the Contractor shows that the obstruction removal work represents a delay to
49 the completion of the project based on the current progress schedule provided
50 in accordance with Section 1-08.3.

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Section 6-14, Geosynthetic Retaining Walls
January 2, 2012

6-14.2 Materials

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

Grout 9-20.3(4)

In the first paragraph, the following items are inserted after the item "Gravel Borrow For Geosynthetic Retaining Wall":

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

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.

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:

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“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.

**Section 6-17, Permanent Ground Anchors
January 2, 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.

1 **Section 7-02, Culverts**

2 **April 2, 2012**

3 **7-02.5**

4 The bid item “Steel Rib Reinforced Polyethylene Culvert Pipe _____ In. Diam.”, per linear
5 foot is revised to read:

6

7 “St. Rib Reinf Polyethylene Culv. Pipe _____ In. Diam.”, per linear foot

8

9 **Section 7-04, Storm Sewers**

10 **April 2, 2012**

11 **7-04.3(1)B Exfiltration Test – Storm Sewers**

12 The fifth column title “PE⁴” is revised to read “PP⁴” from the table titled, “**Storm Sewer Pipe**
13 **Schedules**”.

14

15 **7-04.5**

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

18

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

20

21 **Section 7-05, Manholes, Inlets, Catch Basins, and Drywells**

22 **April 2, 2012**

23 **7-05.3 Construction Requirements**

24 The third paragraph is supplemented with the following:

25

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

33

34 **Section 8-01, Erosion Control and Water Pollution Control**

35 **April 2, 2012**

36 **8-01.3(2)D Mulching**

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

38

39 Short-Term Mulch shall be hydraulically applied at the rate of 2500 pounds per acre and
40 may be applied in one lift.

41

42 Moderate-Term Mulch and Long-Term Mulch shall be hydraulically applied at the rate of
43 3500 pounds per acre with no more than 2000 pounds applied in any single lift.

44

45 **8-01.3(2)E Soil Binders and Tacking Agents**

46 The first paragraph is revised to read:

47

1 Tacking agents or soil binders applied using a hydroseeder shall have a mulch tracer
2 added to visibly aid uniform application. This tracer shall not be harmful to plant,
3 aquatic, or animal life. A minimum of 125 pounds per acre and a maximum of 250
4 pounds per acre of Short-Term Mulch shall be used as a tracer.
5

6 The last two paragraphs are deleted.
7

8 **8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch**

9 In the first paragraph, "Engineer" is revised to read "Project Engineer".
10

11 Note 1 of the table in the first paragraph is revised to read:
12

13 ¹ Where Contract timing is appropriate, seeding, fertilizing, and mulching shall be
14 accomplished during the fall period listed above
15

16 The third paragraph is deleted.
17

18 **8-01.3(5) Placing Plastic Covering**

19 The second and third paragraphs are revised to read:
20

21 Clear plastic covering shall be used to promote seed germination when seeding is
22 performed outside of the Dates for Application of Final Seed in Section 8-01.3(2)F. Black
23 plastic covering shall be used for stockpiles or other areas where vegetative growth is
24 unwanted.
25

26 The plastic cover shall be installed and maintained in a way that prevents water from
27 cutting under the plastic and prevents the plastic cover from blowing open in the wind.
28

29 **8-01.3(6) Check Dams**

30 This section is revised to read:
31

32 Check dams shall be installed as soon as construction will allow, or when designated by
33 the Engineer. The Contractor may substitute a different check dam, in lieu of what is
34 specified in the contract, with approval of the Engineer. The check dam is a temporary
35 or permanent structure, built across a minor channel. Water shall not flow through the
36 check dam structure. Check dams shall be constructed in a manner that creates a
37 ponding area upstream of the dam to allow pollutants to settle, with water from
38 increased flows channeled over a spillway in the check dam. The check dam shall be
39 constructed to prevent erosion in the area below the spillway. Check dams shall be
40 placed perpendicular to the flow of water and installed in accordance with the Standard
41 Plans. The outer edges shall extend up the sides of the conveyance to prevent water
42 from going around the check dam. Check dams shall be of sufficient height to maximize
43 detention, without causing water to leave the ditch. Check dams shall meet the
44 requirements in Section 9-14.5(4).
45

46 **8-01.3(7) Stabilized Construction Entrance**

47 The first paragraph is revised to read:
48

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

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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.

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(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(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.

8-01.4 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.

This section is supplemented with the following:

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

8-01.5 Payment

This section is supplemented with the following:

“Outlet Protection”, per each.

1 **Section 8-02, Roadside Restoration**
2 **April 2, 2012**

3 **8-02.5 Payment**

4 The paragraph following bid item “Coarse Compost”, per cubic yard” is revised to read:

5

6 The unit Contract price per cubic yard for “Fine Compost”, Medium Compost” or
7 “Coarse Compost” shall be full pay for furnishing and spreading the compost onto the
8 existing soil.

9

10 **Section 8-03, Irrigation Systems**
11 **April 2, 2012**

12 **8-03.3(7) Flushing and Testing**

13 The fifth paragraph is deleted.

14

15 **Section 8-04, Curbs, Gutters, and Spillways**
16 **April 2, 2012**

17 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

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

19

20 **8-04.3(1)B Roundabout Cement Concrete Curb and Gutter**

21 Roundabout cement concrete curb and gutter and roundabout splitter island nosing curb
22 shall be shaped and finished to match the shape of the adjoining curb as shown in the
23 Plans. All other requirements for cement concrete curb and cement concrete curb and
24 gutter shall apply to roundabout cement concrete curb and gutter.

25

26 **8-04.4 Measurement**

27 This section is supplemented with the following:

28

29 Roundabout splitter island nosing curb will be measured per each.

30

31 **8-04.5 Payment**

32 The bid item, “Roundabout Truck Apron Cement Concrete Curb”, per linear foot is deleted.

33

34 This section is supplemented with the following:

35

36 “Roundabout Cement Concrete Curb and Gutter”, per linear foot

37

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

41

42 “Roundabout Splitter Island Nosing Curb”, per each.

43

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

47

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

3 In this Section "Engineer" is revised to read "Project Engineer".
4

5 **8-12.1 Materials**

6 This section is supplemented with the following:
7

8 Paint 9-08.1(2)B
9

10 **8-12.3(1)A Posts**

11 The words "for Type 3 and Type 4 fences" and "on Type 3 and Type 4 fences" are deleted
12 from this section.
13

14 The first sentence of the fifth paragraph is revised to read:
15

16 After the post is set and plumbed, the hole shall be filled with Grout Type 4.
17

18 The third sentence in the sixth paragraph is replaced with the following two sentences:
19

20 After the post is set and plumbed, the hole in the portion of the post in solid rock shall
21 be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to
22 leave no voids.
23

24 The seventh paragraph is deleted.
25

26 The ninth paragraph is revised to read:
27

28 Steep slopes or abrupt topography may require changes in various elements of the
29 fence. It shall be the responsibility of the Contractor to provide all posts of sufficient
30 length to accommodate the chain link fabric.
31

32 The tenth paragraph is revised to read:
33

34 All round posts shall have approved top caps fastened securely to the posts. The base
35 of the top cap fitting for round posts shall feature an apron around the outside of the
36 posts.
37

38 **8-12.3(1)B Top Rail**

39 This section's content including title is deleted and replaced with:
40

41 **8-12.3(1)B Vacant**
42

43 **8-12.3(1)C Tension Wire and Tension Cable**

44 This section's content including title is revised to read:
45

46 **8-12.3(1)C Tension Wire**

47 Tension Wires shall be attached to the posts as detailed in the Plans or as approved by
48 the Engineer.
49
50

1 **8-12.3(1)D Chain Link Fabric**
2 The first three paragraphs are revised to read:
3
4 Chain link fabric shall be attached after the cables and wires have been properly
5 tensioned.
6
7 Chain link fabric shall be placed on the face of the post away from the Highway, except
8 on horizontal curves where it shall be placed on the face on the outside of the curve
9 unless otherwise directed by the Project Engineer.
10
11 Chain link fabric shall be placed approximately 1-inch above the ground and on a
12 straight grade between posts by excavating high points of ground. Filling of depressions
13 will be permitted only upon approval of the Project Engineer.
14
15 The third sentence of the fourth paragraph is revised to read:
16
17 The top and bottom edge of the fabric shall be fastened with hog rings to the top and
18 bottom tension wires as may be applicable, spaced at 24-inch intervals.
19
20 **8-12.3(1)E Chain Link Gates**
21 The third paragraph is deleted.
22
23 **8-12.3(2)A Posts**
24 In the second paragraph, “commercial” is deleted.
25
26 The first sentence of the fifth paragraph is revised to read:
27
28 After the post is set and plumbed, the hole shall be filled with Grout Type 4.
29
30 The fourth sentence in the sixth paragraph is replaced with the following two sentences:
31
32 After the post is set and plumbed, the hole in the portion of the post in solid rock shall
33 be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to
34 leave no voids.
35
36 The tenth paragraph is revised to read:
37
38 Where the new fence joins an existing fence, the 2 shall be attached in a manner
39 satisfactory to the Project Engineer, and end or corner posts shall be set as necessary.
40
41 The eleventh paragraph is deleted.
42
43 **8-12.5 Payment**
44 The paragraph following the item “Chain Link Fence Type _____”, per linear foot is revised to
45 read:
46
47 The unit Contract price per linear foot for “Chain Link Fence Type _____” shall be full
48 payment for all costs for the specified Work including brace post installation and all
49 other requirements of Section 8-12 for Chain Link Fence, unless covered in a separate
50 Bid Item in this Section.
51

1 The following paragraph is inserted after the item “End, Gate, Corner, and Pull Post for
2 Chain Link Fence”, per each:
3
4 The unit Contract price per each for “End, Gate, Corner, and Pull Post for Chain Link
5 Fence” shall be full payment for all costs for the specified Work.
6
7 The following paragraph is inserted after the item “Single 6 Ft. Chain Link Gate”, per each:
8
9 The unit Contract price per each for “Double 14 Ft. Chain Link Gate”, “Double 20 Ft.
10 Chain Link Gate”, and “Single 6 Ft. Chain Link Gate”, shall be full payment for all costs
11 for the specified Work.
12
13 The following paragraph is inserted after the item “Wire Fence Type _____”, per linear foot:
14
15 The unit Contract price per each for “Wire Fence Type _____” shall be full payment for all
16 costs for the specified Work including payment for clearing of the fence line.
17
18 The following paragraph is inserted after the item “Double Wire Gate 20 Ft. Wide”, per each:
19
20 The unit contract price per each for “Single Wire Gate 14 Ft. Wide” and “Double Wire
21 Gate 20 Ft. Wide” shall be full payment for all costs for the specified Work.
22
23 The paragraph following the item “Access Control Gate”, per each is revised to read:
24
25 The unit contract price per each for “Access Control Gate” shall be full payment for all
26 costs to perform the specified Work.
27
28 **Section 8-15, Riprap**
29 **April 2, 2012**
30
31 **8-15.1 Description**
32 The second paragraph is revised to read:
33
34 Riprap will be classified as heavy loose riprap, light loose riprap, and hand placed
35 riprap.
36
37 **Section 8-20, Illumination, Traffic Signal Systems, And Electrical**
38 **January 2, 2012**
39
40 **8-20.3(9) Bonding, Grounding**
41 The first sentence in the second paragraph is replaced with the following two sentences:
42
43 All conduit installed shall have an equipment ground conductor installed in addition to
44 the conductors noted in the Contract. Conduit with innerducts shall have an equipment
45 ground conductor installed in each innerduct that has an electrical conductor.
46
47 **Section 8-21, Permanent Signing**
48 **April 2, 2012**
49
50 **8-21.2 Materials**
51 The third sentence is revised to read:

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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 eighth paragraph 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

1 the Plans. When deviations are identified, the Contractor shall notify the Engineer, and
2 such notice shall be accompanied by the Contractor's proposed method(s) of
3 addressing the deviations, including removal and reconstruction of the shaft cap portion
4 of the affected concrete foundation as outlined in this Section, or fabrication repair,
5 adjustment or modification, with associated shop drawings, in accordance with Section
6 8-21.3(9)A.

7
8 If the Contractor's survey indicates that a concrete foundation has been constructed
9 incorrectly for a sign structure that has already been fabricated, the Contractor may
10 remove and reconstruct the shaft cap portion of the foundation, in accordance with
11 Section 1-07.13, provided the following conditions are satisfied:

- 12
13 1. The Contractor shall submit the method and equipment to be used to remove
14 the portion of the concrete foundation to be removed and reconstructed to the
15 Engineer for approval in accordance with Section 1-05.3. The submittal shall
16 include confirmation that the equipment and the method of operation is
17 appropriate to ensure that the existing anchor bolt array and primary shaft
18 vertical steel reinforcing bars will not be damaged.
- 19
20 2. All steel reinforcing bars, except for steel reinforcing bars extending from the
21 bottom portion of the foundation to remain, shall be removed and disposed of
22 in accordance with Sections 2-02.3 and 2-03.3(7)C, and shall be replaced with
23 new steel reinforcing bars conforming to the size, dimensions and geometry
24 shown in the Plans. All concrete of the removed portion of the foundation shall
25 be removed and disposed of in accordance with Sections 2-02.3 and 2-
26 03.3(7)C.
- 27
28 3. The Contractor shall adjust the primary shaft vertical steel reinforcing bars as
29 necessary in accordance with Section 6-02.3(24)C to provide clearance for the
30 anchor bolt array.

31
32 Sign structures shall not be erected on concrete foundations until the Contractor
33 confirms that the foundations and the fabricated sign structures are either compatible
34 with each other and the design geometry shown in the Plans, or have been modified in
35 accordance with this Section and as approved by the Engineer to be compatible with
36 each other, and the foundations have attained a compressive strength of 2,400-psi.

37 38 **8-21.5 Payment**

39 This section is supplemented with the following:

40
41 All costs in connection with surveying completed concrete foundations for sign bridges
42 and cantilever sign structures shall be included in the lump sum contract price for
43 "Structure Surveying", except that when no Bid item is included in the Proposal for
44 "Structure Surveying" then such costs shall be included in the lump sum contract
45 price(s) for "Sign Bridge No. ____" and "Cantilever Sign Structure No. ____".

46 47 48 **Section 8-25, Glare Screen** 49 **April 2, 2012**

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

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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 section including title is revised to read:

8-25.3(5) Vacant

**Section 9-03, Aggregates
April 2, 2012**

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 is revised to read:

All backfill material for geosynthetic retaining 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:

Sieve Size	Percent Passing
1 ¼" ¹	99-100
1"	90-100
No. 4	50-80
No. 40	30 max.
No. 200	7.0 max.
Sand Equivalent	50 min.

38
39
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All percentages are by weight

Property	Test Method	Allowable Test Value
Los Angeles Wear 500 rev.	AASHTO T 96	35 percent max.
Degradation Factor	WSDOT Test Method 113	15 min.

pH, permanent walls	AASHTO T 289	4.5-9
pH, temporary walls	AASHTO T 289	3-10

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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 Slage 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

The column heading “Recycled Glass” is revised to read “Recycled Glass (Glass Cullet) in the table.

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

**Section 9-04, Joint And Crack Sealing Materials
January 2, 2012**

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.

1 **Section 9-06, Structural Steel and Related Materials**

2 **April 2, 2012**

3 **9-06.5(2) High Strength Bolts**

4 In this section, "AASHTO M 291" is revised to read "ASTM A 563".

6 **Section 9-10, Piling**

7 **April 2, 2012**

8 **9-10.4 Steel Pile Tips and Shoes**

9 In the first paragraph "ASTMA A 148 Grade 60-90" is revised to read "ASTMA A 148 Grade
10 90-60".

12 **Section 9-14, Erosion Control and Roadside Planting**

13 **April 2, 2012**

14 **9-14.3 Fertilizer**

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

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

20 **9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)**

21 The fourth row 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 – < 30 mg/kg Zinc – < 30 mg/kg
--------------	------------------------	--

23

24 **9-14.4(2)A Long Term Mulch**

25 In the first paragraph, the phrase "within 2 hours of application" is deleted.

27 **9-14.4(4) Wood Strand Mulch**

28 The third paragraph is revised to read:

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

35 **9-14.4(8) Compost**

36 The second paragraph is revised to read:

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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
1/4"	75	100

15
16
17
18
19

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
1/4"	70	85

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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
3/4"	70	100
1/4"	40	60

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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".

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3. Manufactured inert material (plastic, concrete, ceramics, metal, etc.) shall be less than 1 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 waste as defined in WAC 173 350 as “Type 1 Feedstocks”, “Type 2 Feedstocks”, and/or “Type 3 Feedstocks”. 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(2) Erosion Control Blanket

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

1 The Contractor shall supply independent test results from the National Transportation
2 Product Evaluation Program (NTPEP) meeting the following requirements in Tables 6
3 and 7:
4

5 **9-14.5(4) Geotextile Encased Check Dam**

6 This section including title is revised to read:
7

8 **9-14.5(4) Check Dams**

9 All materials used for check dams shall be non-toxic and not pose a threat to wildlife
10 when installed.
11

12 This section is supplemented with the following new sub-sections:
13

14 **9-14.5(4)A Biodegradable Check Dams**

15 Biodegradable check dams shall meet the following requirements:
16

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

21
22 The Contractor may substitute a different biodegradable check dam as long as it
23 complies with the following and is approved by the Engineer:
24

- 25 1. Made of natural plant fiber.
- 26 2. Netting if present shall be biodegradable.

27
28
29 **9-14.5(4)B Non-biodegradable Check Dams**

30 Non-biodegradable check dams shall meet the following requirements:
31

- 32 1. Geotextile materials shall conform to section 9-33 for silt fence.
- 33 2. Other such devices that fulfill the requirements of section 9-14.5(4) and shall
34 be approved by the Engineer prior to installation.
35
36

37 **9-14.6(1) Description**

38 In item No. C in the fourth paragraph, "22-inch" is revised to read "2-inch".
39

40 **Section 9-16, Fence and Guardrail**

41 **April 2, 2012**

42 **9-16.1(1)A Post Material for Chain Link Fence**

43 The last sentence in the last paragraph is deleted.
44

45 **9-16.1(1)C Tension Wire and Tension Cable**

46 This section including title is revised to read:
47

48 **9-16.1(1)C Tension Wire**

49 Tension wire shall meet the requirements of AASHTO M 181. Tension wire galvanizing
50 shall be Class 1.

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9-16.1(1)D Fittings and Hardware

The last paragraph is deleted.

9-16.1(2) Approval

This section is deleted.

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 ¾-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 ¾ 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 ⅜ inch by ¼ inch nominal or ⅝ inch diameter round bar nominal. A ⅝ inch diameter round stretcher bar shall be used with Type 1. Nominal shall be construed to be the area of the

1 cross section of the shape obtained by multiplying the specified width by thickness. A
2 variation of minus 5-percent from this theoretical area shall be construed as “nominal”
3 size. All shall be galvanized to meet the requirements of ASTM F 626.
4

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

7 **9-20.3(3) Grout Type 3 for Unconfined Bearing Pad Applications**

8 This section is revised to read:

9

10 Grout Type 3 shall be a prepackaged material meeting the requirements of ASTM C 928
11 – Table 1, R2 Concrete or Mortar.
12

13 **9-20.3(4) Grout Type 4 for Multipurpose Applications**

14 In the third sentence of the first paragraph, the reference “0.40” is revised to read “0.45”.
15

16 **Section 9-23, Concrete Curing Materials and Admixtures**
17 **April 2, 2012**

18 **9-23.2 Liquid Membrane-Forming Concrete Curing Compounds**

19 In the first paragraph, “moisture loss” is revised to read “water retention”.
20

21 **Section 9-29, Illumination, Signal, Electrical**
22 **April 2, 2012**

23 **9-29.10(2) Decorative Luminaries**

24 The second sentence in the third paragraph is deleted.
25

26 **9-29.25 Amplifier, Transformer, and Terminal Cabinets**

27 In item No. 2.C., “Transformer 23.1 to 12.5 KVA” is revised to read “Transformer 3.1 to 12.5
28 KVA”.
29

30 **Section 9-34, Permanent Marking Material**
31 **April 2, 2012**

32 **9-34.2 Paint**

33 The second paragraph is revised to read:
34

35 Blue and black paint shall comply with the requirements for yellow paint in Section 9-
36 34.2(4) and Section 9-34.2(5), with the exception that blue and black paints do not need
37 to meet the requirements for titanium dioxide, directional reflectance, and contrast
38 ration.

PART VI
SPECIAL PROVISIONS

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SPECIAL PROVISIONS

The following Special Provisions are made a part of this contract and supersede any conflicting provisions of the 2012 Standard Specifications for Road, Bridge and Municipal Construction, and the foregoing Amendments to the Standard Specifications.

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

(date)	General Special Provision
(*****)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
(Date APWA GSP)	APWA Special Provision
(Date COA GSP)	Local Special Provision

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

APWA Special Provision are similar to General Special Provisions in that they typically apply to many projects, usually in more than one Region. However, they are modified for Local Agencies to use on smaller projects than WSDOT.

Local Special Provisions are similar to Standard Specifications in that they typically apply to many project within the City of Arlington. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a "fill-in".

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

1
2 **DIVISION 1**
3 **GENERAL REQUIREMENTS**
4

5 **DESCRIPTION OF WORK**
6

7 (March 13, 1995)

8 This contract provides for the improvement of 67th Ave NE, including trail construction,
9 pavement construction, drainage improvements, utility improvements, signal and illumination
10 construction, driveway reconstruction, fish passage culvert installation, wetland mitigation
11 and other work, all in accordance with the attached Contract Plans, these Contract
12 Provisions, and the Standard Specifications.
13

14 **DESCRIPTION OF ADDITIVES**

15 (*****)
16

17 The additives for this project include the signal work at 204th St. NE and 67th Ave NE, the
18 signal work at 211th Pl. NE and 67th Ave NE, fiber optic conduit and manholes on 67th Ave
19 NE, and non-potable water on 67th Ave NE.
20

21 ***Abbreviations***

22 Section 1-01.2 is supplemented with the following:
23

24 (April 18, 2011 COA GSP)

25	ADA	Americans with Disabilities Act
26	ADAAG	ADA Accessibility Guidelines
27	AMC	Arlington Municipal Code
28	BCY	Bank Cubic Yards
29	CAPA	Critical Area Protection Area
30	CAPE	Critical Area Protection Easement
31	CATV	Cable Television
32	CB	Catch Basin
33	CDF	Controlled Density Fill
34	CIP	Capital Improvement Program
35	CPE	Corrugated Polyethylene
36	CMP	Corrugated Metal Pipe
37	CSBC	Crushed surfacing base course
38	CSTC	Crushed surfacing top course
39	DCVA	Double Check Valve Assembly
40	DIA	Diameter
41	DOE	Department of Ecology
42	DSHS	Department of Social and Health Services
43	ESAL	Equivalent Single Axle Load
44	HDPE	High Density Polyethylene
45	HECP	Hydraulically Applied Erosion Control Product
46	HMA	Hot Mix Asphalt
47	JMF	Job Mix Formula
48	LCPE	Lined Corrugated Polyethylene
49	MH	Manhole
50	MUTCD	Manual of Uniform Traffic Control Devices
51	NIC	Not in Contract
52	NGPA	Native Growth Protection Area

1	NPDES	National Pollutant Discharge Elimination System
2	NST	National Standard Threads
3	OCI	Overall Condition Index
4	OWWM	Ordinary High Water Mark
5	PC	Point of Curvature
6	PCP	Plain Concrete Pipe
7	PI	Point of Intersection
8	PCC	Portland Cement Concrete
9	PLS	Professional Land Surveyor
10	PROWAAC	Public Rights-of-Way Access Advisory Committee
11	PROWAG	Draft Proposed Right-of-Way Accessibility Guidelines
12	PRV	Pressure Reducing Valve
13	PT	Point of Tangency
14	PVC	Polyvinyl Chloride or Point of Vertical Curvature
15	PVI	Point of Vertical Intersection
16	QPL	Qualified Products List
17	RAM	Request for Approval of Material
18	R/W	Right of Way
19	RCP	Reinforced Concrete Pipe
20	RCW	Revised Code of Washington
21	RPBA	Reduced Pressure Backflow Assembly
22	RPDA	Reduced Pressure Detector Assembly
23	SWPE	Solid Wall Polyethylene
24	SWPPP	Storm Water Pollution Prevention Plan
25	TCY	Truck Cubic Yard
26	TESCP	Temporary Erosion/Sedimentation Control Plan
27	VMD	Vehicle Maneuvering Diagrams
28	VFA	Voids Filled with Asphalt
29	VMA	Voids in Mineral Aggregate
30	WSDOH	Washington State Department of Health
31	WSDOT	Washington State Department of Transportation

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1-01.3 Definitions

(January 20, 2012 COA GSP)

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

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

The venue of all causes of action arising from the advertisement, award, execution, and performance of the contract shall be in the Snohomish County Superior Court.

AASHTO – The American Association of State and Highway Transportation Officials

AASHTO Green Book: A Policy on Geometric Design of Highways and Streets
- contains the latest design practices in universal use as the standard for highway geometric design

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

Alley – A public or privately maintained thoroughfare, tract, or easement, usually narrower than a street, which provides access to the rear boundary of one or more lots and is not intended for general traffic circulation.

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

AMC – The City of Arlington Municipal Code.

Applicant – For the purposes of these standards, the Applicant shall be considered the same as the Developer, and may be used interchangeably.

Appurtenance – Equipment and/or accessories that are part of an operating system or subsystem.

Arterial Streets – A street classification which includes principal, minor, industrial collector and residential collector arterials and residential collectors. Those streets so designated by the City of Arlington Transportation Comprehensive Plan.

As-built Drawings - The words “As-Built Drawing” shall mean a drawing prepared a Professional Engineer licensed in the State of Washington that show the final built condition of the site.

Auxiliary Lane – That portion of the street adjoining the traveled way for speed change, turning, storage for turning, weaving, truck climbing, or other purposes supplementary to through-traffic movement.

Average Daily Traffic (ADT) – The total volume during a given time period (in whole days), greater than one (1) day and less than one (1) year, divided by the number of days in that time period. ADT is typically used in quantifying the combined number of vehicles traveling in both directions on a particular street.

Backfill – Replacement of excavated material with suitable material compacted as specified.

Best Management Practices (BMPs) - A schedule of activities, prohibitions of practices, physical structures, maintenance procedures, and other management practices undertaken to reduce or prevent increases in runoff quantity and pollution.

Bike Lane – A travel lane, located within the paved area of a street, which is provided for the exclusive use of bicycles designated by lane use signs and pavement markings.

Bill of Sale – The transfer of ownership document that a Developer must provide before the City will agree to accept, operate and maintain public improvements.

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Bollard – A fixed or removable post designed to prevent vehicular access, or to prevent damage to an adjacent above-ground structure.

Boring – Grade and alignment controlled mechanical method of installing a pipe or casing under a street without disturbing the surrounding medium.

Buffer – The zone contiguous to a critical area as defined in AMC 20.88 that is required for the continued maintenance, function, and/or structural stability of the critical area.

Building Official – City of Arlington Building Official or their designee.

Channelization – The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands or other suitable means to facilitate the safe and orderly movement of both vehicles and pedestrians.

City – The City of Arlington, acting through its legally constituted elected officials, employees or agents.

City Attorney – Attorney representing the City of Arlington.

City Engineer – Shall refer to the Arlington City Engineer, or their designee, in the context of municipal projects. Shall refer to engineer of record for non-municipal projects.

City Inspector – An authorized representative of the Public Works Department performing inspection and testing.

City Standards or these Standards – City of Arlington Public Works Design and Construction Standards and Specifications, latest edition.

City Standard Details or Standard Details – City of Arlington Standard Detail drawings, latest edition.

Clear Zone – The total roadside border area starting at the edge of the traveled way available for use by errant vehicles. This area may consist of a shoulder, a recoverable slope, a non recoverable slope, and/or a clear run-out area.

Clearing – The act of destroying, trimming, altering, or removing vegetation by any means.

Commercial Development – Includes multi-family residential, and commercial, office or industrial buildings.

Compaction – The densification of fill by mechanical means.

Contract - The written agreement between the Contracting Agency and the Contractor. It describes, among other things:

1. What work will be done, and by when;
2. Who provides labor and materials; and

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3. How Contractors will be paid.
The Contract includes the Contract (agreement) Form, Bidder's completed Proposal Form, Contract Provisions, Contract Plans, standard Specifications, Standard Plans, Addenda, various certifications and affidavits, supplemental agreements, change orders, and subsurface boring logs (if any).

Contract Bond - The approved form of security furnished by the Contractor and the Contractor's Surety as required by the Contract, that guarantees performance of all the Work required by the Contract.

Contract Documents - See definition for "Contract".

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

Contractor – The individual, firm, partnership, corporation, or joint venture entering into a contract with a Developer or the City to perform the work in accordance with these Standards. The term shall also include the Contractor's agents, employees and subcontractors.

Contracting Agency – Entity responsible for the execution and administration of the Contract.

Critical Areas – Areas within the City that include wetlands, streams, wildlife and fisheries habitat, geologic hazard areas, frequently flooded areas and aquifer recharge areas.

Cubing – The process of inserting foam cubes (pigs) into and pushed through a new water or sanitary sewer main to remove any residue, dirt, debris, obstruction or foreign material from the pipe. This process is also referred to as "pigging."

Cul-de-sac – A short street having one end open to traffic and the other temporarily or permanently terminated by a vehicle turnaround at or near the terminus.

Culvert – Pipe, pipe arch or concrete box structure which drains open channels, swales or ditches under a street or embankment; typically with no catch basins along its length.

Cut – See Excavation.

Dates

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

Notice of Award Date
The date which appears on the Notice of Award to the successful Bidder.

Contract Execution Date
The date the Contracting Agency officially binds the agency to the contract, and construction duration time begins.

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Notice to Proceed Date

The date stated in the Notice to Proceed on which construction activity can begin.

Substantial Completion Date

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, and only minor incidental work, replacement of temporary substitute facilities, or correction or repair remains for the physical completion of the total contract.

Physical Completion Date

The day all of the work is physically completed on the project. All documentation required by the contract and required by law does not necessarily need to be furnished by the Contractor by this date.

Completion Date

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

Final Acceptance Date

The date on which the Contracting Agency accepts the work as complete.

Dead End – A street with a single location for ingress and egress for vehicles.

Public Works Director – City of Arlington Public Works Director, a representative of the City of Arlington.

Design Capacity – The traffic volume at which a particular class of street will operate at an established acceptable level-of-service. Typically, the design capacity of a street is the number of vehicles, in a 24-hour period at which that street would operate at a level-of service D as defined in the City of Arlington Transportation Comprehensive Plan.

Design Deviation – The process and resulting documentation associated with a geometric feature created or perpetuated by a Public Works improvement that does not conform to the minimum criteria set forth in these standards and policies, but does provide the same safety elements to the public. This includes what some may refer to as a design exception or exemption.

Design Speed – The vehicle speed approved by the Engineer which is used to determine the design elements of a street, including but not limited to, intersection/driveway sight triangle, stopping sight distance, super-elevations, curve radii, etc. for residential and industrial streets, or equal to ten mph above the current or expected posted speed for streets designated as arterials unless otherwise determined by the Engineer.

Design Vehicle – The FHWA classification of vehicle (such as “WB-50”, BUS, or SU) that is used to establish the design of a particular street, intersection, or

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driveway; or the on-site maneuvering area required in the parking/loading area of a private business or public facility.

Developer – For the purposes of these standards, the Developer means any person or entity designated or named in writing by the property or easement owner to be the Applicant, or a public agency or utility which owns a right-of-way or easement in a permit application or approval for a development proposal or capital improvement project. Developer also includes a permit applicant, one who has already been granted a permit, and the City itself for those situations where City construction activities are subject to approval under the particular standard.

Developer’s Engineer or Design Engineer – The Professional Engineer or engineering firm entering into a contract with the Developer and representing the Developer to prepare construction documents and provide other engineering services. The term shall also include its employees and sub-consultants.

Development – Land disturbing activities; structural development (including construction or installation of a building or other structure); creation of impervious surfaces; and subdivision, short subdivision and binding site plans, as defined in RCW 58.17.

Director of Community Development – City of Arlington Director of the Department of Community Development.

Director of Public Works – City of Arlington Director of the Department of Public Works.

DOE – State of Washington Department of Ecology

DOE Stormwater Management Manual – Department of Ecology Stormwater Management Manual for Western Washington, adopted edition by the City of Arlington.

Downspout - The word “Downspout” shall mean the leader of pipe above ground which is installed to conduct storm water from the roof gutter or any structure.

Drip Line – The circle that would exist if you drew a line below the tips of the outer most branches of a tree or plant.

Driveway – A privately maintained access to residential, commercial or industrial properties.

Dry Season – In the application of these standards: April 1 to September 30 of each year.

Easement - Means a legal encumbrance that is placed against a property’s title to reserve specified privileges for the users and beneficiaries, both public and private, within the boundaries of the easement.

Engineer – Shall refer to City Engineer in the context of municipal projects. Shall refer to engineer of record for non-municipal projects.

- 1 **Engineering Plan** – The official drawings, plans, profiles, typical cross-sections
2 and supplemental drawings, and specifications , technical reports, or reproductions
3 thereof, approved by the Engineer, which show the location, character, dimensions
4 and details of work to be performed. The engineering plan shall be prepared, dated,
5 stamped and signed by a Professional Engineer licensed in the State of
6 Washington. All such documents are to be considered as a part of the plans
7 whether attached to or separate. An engineering plan may be supplemented with
8 reports which contain detailed calculations, structural calculations, or other
9 supporting documents needed to assess the total plan.
- 10
- 11 **Engineering Review** – An evaluation by the Public Works Department of a
12 proposed project’s compliance with these standards and other applicable City,
13 State, and Federal regulations, ordinances, and policies.
- 14
- 15 **Erosion** – The wearing away of the ground surface as a result of the movement of
16 wind, water, or ice.
- 17
- 18 **Excavation** – The removal of earth material by artificial means also referred to as
19 cut.
- 20
- 21 **Filling** – Deposition of earth materials by artificial means also referred to as fill.
- 22
- 23 **Final Acceptance** – Acceptance by ordinance of the infrastructure improvements
24 constructed by the Developer for ownership, operation and maintenance based on
25 the bill of sale.
- 26
- 27 **Final Construction Approval** – The approval granted by the Engineer of all
28 infrastructure improvements constructed by the Developer as required by the
29 approved engineering plans. All items on the final inspection punchlist must be
30 completed prior to receiving this approval.
- 31
- 32 **Final Cleanup** – As defined in the WSDOT Standard Specification Section 1-04.11.
- 33
- 34 **Final Inspection** – This is the last inspection of the physical infrastructure
35 improvements by the inspector and Public Works Department staff resulting in the
36 list of correction items shown in the final inspection punchlist.
- 37
- 38 **Final Inspection Punchlist** – The list prepared by the inspector of missing or
39 defective work that must be completed in accordance with the approved
40 engineering plans and any revisions.
- 41
- 42 **Financial Guarantee** – A surety bond, assignment of funds, irrevocable letter of
43 credit, or other means acceptable to or required by the City Engineer to guarantee
44 that work is completed in compliance with the project’s approved plans, and in
45 compliance with City of Arlington requirements.
- 46
- 47 **Fire Chief** – City of Arlington Fire Chief or their designee.
- 48
- 49 **Geometrics** – The physical arrangement of the visible elements of a street such as
50 alignment, grade, curvature, width and side slopes.
- 51
- 52 **Grade** – The vertical location of the ground surface.

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Grade, Existing – The grade prior to grading.

Grade, Finished – The grade of the site at the conclusion of all grading and/or construction activities.

Grading – An excavation or fill, or combination thereof.

Half-Street – An interim street section built adjacent to the property line which eventually will be completed to a full width street section when the adjacent property is developed.

Improved City Street – A term referring to a public street typically paved with asphalt concrete, and having such features as sidewalks, landscaping, a paved area for parked vehicles, curbs and gutters, street lights, traffic signs, pavement markings, etc. This is in contrast to an “unimproved” street with no physical improvements or which might be built with only an unmaintained gravel surface.

Industrial Collector Arterial – Those streets so designated by the City of Arlington Transportation Comprehensive Plan.

Infrastructure Improvements - Street improvements, street lighting, traffic control devices and signage, water, sewer, street and storm drainage systems, and conduit for fiber optics systems.

Ingress/Egress – Points of access to and from a property or parcel.

Intersection/Driveway Sight Triangle– The specified areas along intersection and driveway approach legs, and across their included corners, that are clear of obstructions that might block a driver’s view of potentially conflicting vehicles. The dimensions of the legs of the sight triangles depend on the design speed and the type of traffic control used at the intersection.

Intersection – The area embraced within the prolongation or connection of the lateral curb lines, or, if none, then the lateral boundary lines of the roadways of two or more highways which join one another at, or approximately at, right angles; or the area within which vehicles traveling upon different highways joining at any other angle may come in conflict.

Inspector – The City’s authorized representative assigned to make all necessary inspections of work performed, or of materials furnished or being furnished by the Developer.

Landing – A Street or driveway approach area to any public or private street. Also, this refers to the level area at the back of the sidewalk ramp, typically 4’ wide.

Latecomers Agreements – Those agreements which identify costs for constructed public improvements that will be shared by other developers when they develop parcels within the specific time period specified by those agreements. See RCW 35.91.020.

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Licensed Side Sewer Contractor - The words “Licensed Side Sewer Contractor” shall mean any person, partnership, corporation or association duly qualified and competent to do work incidental to the construction or repair of side sewer under permits issued under these regulations and who shall have been duly licensed and bonded with the State of Washington and the City.

Local Improvement District (LID) – A method provided by RCW 35.43 by which a group of property owners can share in the cost of transportation or utility system infrastructure improvements. This may involve improving the street, building sidewalks, installing water and sanitary sewer service, and providing a stormwater management system. LIDs may be used to finance new improvements or improvements on existing streets that previously have been accepted for maintenance by the City.

Lot – A physically separate and distinct parcel of property that has been created pursuant to the provisions in the AMC, or pursuant to any previous laws governing the subdivision, short subdivision or segregation of land. For the purposes of these standards, Lot shall be considered the same as Property or Parcel and may be used interchangeably.

Low Impact Development - An innovative ecosystem based approach to land Development and storm water management that results in fewer environmental impacts.

Lumen – The unit of measurement for lighting levels.

Luminance – The reflected light from street lights or other light sources from the pavement surface that is visible to the motorist’s eye.

Mainline Extension – The extension or expansion of the system of water mains, sanitary sewer mains, storm drainage systems, streets, and all related appurtenances to be constructed in whole or in part as required by the conditions of approval.

Material or Materials - These words shall be construed to embrace machinery, manufactured or fabricated articles, and natural substance to be furnished in connection with the Project.

Material Certification of Compliance – An approved list of materials certified by the manufacturer or supplier as meeting the minimum requirements of these standards.

Materials Testing Laboratory – A materials testing laboratory adhering to ASTM and AASHTO accepted standards and all reports shall be stamped and signed by a Professional Engineer.

Monitoring – The collection of data by various methods for the purposes of understanding natural systems and features, evaluating the impacts of development proposals on such systems, and assessing the performance of mitigation measures imposed as conditions of development approval.

1 **MUTCD** – Manual on Uniform Traffic Control Devices for Streets and Highways,
2 published by U.S. Department of Transportation Federal Highway Administration,
3 latest edition.
4
5 **National Pollutant Discharge Elimination System (NPDES)** – This is the part of
6 the federal Clean Water Act which requires point source dischargers to obtain
7 permits. These permits are referred to as NPDES Permits and are administered by
8 the Washington State Department of Ecology.
9
10 **Notice of Award** - The written notice from the Contracting Agency to the successful
11 bidder signifying the Contracting Agency’s acceptance of the bid.
12
13 **Notice to Proceed** - The written notice from the Contracting Agency or Engineer to
14 the Contractor authorizing and directing the Contractor to proceed with the work.
15
16 **Occupant** - The word “Occupant” shall mean any Person or Owner in physical
17 possession of a structure to which Utility Service is available.
18
19 **Owner** – For projects that are administered by the City of Arlington, Owner shall be
20 considered to be the City of Arlington. For projects that are administered by a
21 developer, Owner shall be considered to be the developer.
22
23 **Pavement Widening** – Pavement widening projects are expansion of the street
24 surface for vehicular use and may involve earthwork, drainage and paving
25 elements. These projects are considered alterations of the street and must address
26 ADA accessibility for pedestrians.
27
28 **Payment Bond** - The approved form of security furnished by the Contractor and
29 the Contractor’s Surety as required by the Contract, that guarantees payment to
30 anyone who provides supplies or labor for the performance of the Work.
31
32 **Performance Bond** – See “Contract Bond”
33
34 **Permit** - The work “Permit” shall mean an application for and the printed numbered
35 form issued by the City prior to construction or repair of any side sewer.
36
37 **Permit Center** – The City of Arlington Permit Center.
38
39 **Person or Owner** - The words “Person or Owner” shall mean any individual,
40 company, partnership, corporation, association, society or group who has
41 ownership of a structure to which sewer service is available and the singular term
42 shall include the plural.
43
44 **Plan Approval** – The approval of the engineering plans by Public Works staff for
45 the appropriate permit application. This approval is a prerequisite for being able to
46 have the permit issued. Also required from the Developer for permit issuance are
47 the appropriate financial guarantees, certificate of insurance, and payment of all
48 applicable fees and charges.
49
50 **Plans or Construction Plans** – Project drawings subject to City review and
51 approval prior to construction that show the location, character and dimensions of

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the proposed work such as layouts, profiles, cross-sections, details, methods and general notes.

Pre-Construction Conference – Meeting held by the Engineer with the Developer, utilities, contractors and staff to convey information regarding the expectations of the City.

Private Sewer - The words “Private Sewer” shall mean a Sewer, exclusive of Side Sewers, which are neither owned nor operated by the City.

Professional Engineer – A person who, by reason of his or her special knowledge of the mathematical and physical sciences and the principles and methods of engineering analysis and design, acquired by professional education and practical experience, is qualified to practice engineering as defined in RCW 18.43, as attested by his or her legal registration as a Professional Engineer

Professional Land Surveyor – A person who, by reason of his or her special knowledge of the mathematical and physical sciences and principles and practices of land surveying, which is acquired by professional education and practical experience, is qualified to practice land surveying as defined in RCW 18.43, as attested to by his or her legal registration as a Professional Land Surveyor.

Profile Grade – Rate or percentage of change in elevation measured along the centerline of any infrastructure as define herein, either ascending or descending from or along the said Infrastructure.

Project – The proposed action by a Developer requiring improvements to the street, water, storm drainage, sewer and utility systems within the City.

Protected Left-Turn Storage – The area within an exclusive left-turn lane in which vehicles can be stopped without interfering with the movement of vehicles in adjacent lanes.

Public Sewer - The words “Public Sewer” shall mean a Sewer, exclusive of Side Sewers, owned or operated by the City.

Public Street - Publicly owned facility-providing for the movement of vehicles, bicycles, and pedestrians and/or access to adjacent properties, including the street and all other improvements, within the right-of-way.

Public Works – All work, construction, alteration, repair, or improvement other than ordinary maintenance, executed at the cost of the state or of any municipality, or which is by law a lien or charge on any property therein. All Public Works, including maintenance when performed by contract shall comply with RCW 39.12. Public Works does not include work, construction, alteration, repair, or improvement performed under contracts entered into under RCW 36.102.060(4), or under development agreements entered into under RCW 36.102.060(7), or leases entered into under RCW 36.102.060(8).

PUD – Snohomish County Public Utility District No. 1

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Record Drawings Certification – Certification by Professional Land Surveyor registered in the State of Washington.

Record Drawing – This is the record of all changes to the intended physical product of approved engineering plans. Plans shall show all changes that occurred during construction, including changes in materials, distances, lengths, locations, elevations, volumes, etc. and shall contain a record drawings certification conforming to these standards.

Residential Local Access Street – Any public street serving private residences that is not designated as a residential collector arterial or residential collector. Most subdivision streets, for example, are residential streets.

Residential Structure - The words “Residential Structure” shall mean a single family structure or a multiple family structure.

Road – For the purposes of these standards, Road shall be considered the same as Street, and may be used interchangeably.

Right-of-way – Land, property, or property interests acquired for / or devoted to transportation purposes.

Sewer - The word “Sewer” shall mean a conduit designed or used to transport Wastewater, and into which Storm Water, surface and ground waters are not intentionally admitted.

Sewer Service - The words “Sewer Service” shall mean the continuing acceptance by the City of the sewage or wastewater from a structure in the public sewer.

Side Sewer - The words “Side Sewer” shall mean a conduit system (pressure or gravity) extending from the plumbing system of a structure(s) to and connecting with a Public or Private Sewer Main.

Shared Travel Lane – This is a widened travel lane adjacent to the curb or shoulder which is provided for the shared use of vehicles and bicycles. Bicycle route signing and pavement marking is required on these streets.

Shared Use Trail – A path or trail reserved for exclusive use by bicycles and pedestrians and physically separated from motorized vehicle traffic by an open space or barrier.

Shoulder – The paved or unpaved portion of the street outside the traveled way that is available for emergency parking or non-motorized use.

Site – The area defined by the legal boundaries of a parcel, or parcels of land, subject to new development or redevelopment. For street projects, the length of the project and the right-of-way boundaries define the site.

Slope – An inclined surface, the inclination of which is expressed as a ratio of horizontal distance to vertical distance.

1 **Standards** – Technical documents that govern the design and construction of
2 public works and site development.
3
4 **Stormwater Wetland** – Refer to “Wetlands”
5
6 **Street** – A facility serving three lots or more and providing public or private access
7 including the street and all other improvements inside the right-of-way.
8
9 **Street Frontage** – Any portion of a lot or combination of lots that directly abuts a
10 public right-of-way or private access tract.
11
12 **Stop Work Order** – A notice to stop work on a project or property in violation per
13 the AMC.
14
15 **Stormwater Pollution Prevention Plan (SWPPP)** – A pollution prevention plan
16 required by the NPDES stormwater permit requirements. The purpose of the
17 SWPPP is to describe the proposed construction activities and all temporary and
18 permanent erosion and sediment control (TESC) measures, pollution prevention
19 measures, inspection/monitoring activities, and record keeping that will be
20 implemented during the proposed construction project.
21
22 **Surety** – A bonding company that is bound with the Developer to ensure
23 performance of the work shown in the approved plans and specifications, payment
24 of all obligations pertaining to the work, and fulfillment of other such conditions as
25 are specified in the permit, contract, contract bond, or otherwise required by law.
26
27 **Test Tee** – That tee installed at the end of the sanitary sewer stub-out for the
28 purpose of air testing the integrity of the sanitary sewer installation.
29
30 **Three Quarter Street** – A temporary three quarter street is a street that includes
31 the full ultimate width of pavement, curb on both sides of the street and a planter
32 and sidewalk on only one side of the street. See Land Use Code section
33 20.56.110.
34
35 **Thermoplastic** – A type of plastic, bonded to the street surface with a heat source,
36 which is used for marking the channelization.
37
38 **Tract** – A legally created parcel of property designated for special non-residential
39 and non commercial uses. Common tracts include stormwater drainage tracts,
40 sensitive area tracts, native growth protection tracts, private access tracts, and
41 tracts for ingress/egress, and utilities that may serve more than one lot.
42
43 **Traffic** - Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists,
44 wheelchairs, and equestrian traffic.
45
46 **Traffic Calming Measures** – Techniques of design and physical treatments located
47 to encourage a reduction in traffic speeds and the creation of opportunities for
48 streetscape to change the character of Street.
49
50 **Utility** – A privately, publicly, or cooperatively owned line, facility, or system for
51 producing, transmitting, or distributing communications, cable television, power,
52 electricity, light, heat, gas, oil, crude products, water, steam, waste, or any other

1 similar commodity which directly or indirectly serves the public. Additionally, the
2 privately, publicly, or cooperatively owned company that owns the line, facility, or
3 system.
4
5 **Utility Easement** – Means a legal encumbrance that is placed against a property’s
6 title to reserve specified privileges for the users and beneficiaries of utility system
7 facilities, both public and private, within the boundaries of the Easement.
8
9 **Wastewater** - The words “Wastewater” shall mean water-carrying wastes
10 containing either or both sewage and industrial waste.
11
12 **Wetlands** – Critical area as defined in the City Land Use Code section 20.88.
13
14 **Wet Season** – In the application of these standards, October 1 to March 31 of each
15 year.
16
17 **Words and Phrases** - Whenever the words, “as directed”, “as required”, “as
18 permitted”, or words of like effect are used, it shall be understood that the direction,
19 requirement or permission of the City Engineer is intended. The words, “sufficient”,
20 “necessary”, “proper”, and the like shall mean sufficient, necessary or proper in the
21 judgment of the City Engineer. The words, “approved”, “acceptable”, “satisfactory”,
22 or words of like import shall mean approved by, acceptable to, or to the satisfaction
23 of the City Engineer.
24
25 **Work** – The provision of all labor, materials, tools, equipment, and everything else
26 needed to successfully complete the required infrastructure improvements based
27 on approved engineering plans.
28
29 **WSDOT** - Washington State Department of Transportation.
30
31 **WSDOT/APWA Standard Specifications** – The Standard Specifications for Road,
32 Bridge and Municipal Public Works Construction prepared by the Washington State
33 Chapter, American Public Works Association and Washington State Department of
34 Transportation; latest edition with latest revisions, hereinafter referred to as the
35 WSDOT Standard Specifications.
36
37 **WSDOT Design Manual** – The Design Manual provides policies, procedures, and
38 methods for developing and documenting the design of improvements to the
39 transportation network in Washington. It has been developed for state facilities and
40 may not be appropriate for all county roads or city streets that are not state
41 highways.
42

43 **BID PROCEDURES AND CONDITIONS**

44 **1-02.1 Prequalification of Bidders**

45 Delete this Section and replace it with the following:
46

47 **1-02.1 Qualifications of Bidder** 48 *(January 24, 2011 APWA GSP)* 49 50 51

1 Before award of a public works contract, a bidder must meet at least the minimum
2 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified
3 to be awarded a public works project.
4

5 **1-02.2 Plans and Specifications**

6 *(June 27, 2011 APWA GSP)*
7

8 Delete this section and replace it with the following:
9

10 Information as to where Bid Documents can be obtained or reviewed can be found in the
11 Call for Bids (Advertisement for Bids) for the work.
12

13 After award of the contract, plans and specifications will be issued to the Contractor at no
14 cost as detailed below:
15

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	5	Furnished automatically upon award.
Contract Provisions	5	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	5	Furnished only upon request.

16

17 Additional plans and Contract Provisions may be obtained by the Contractor from the
18 source stated in the Call for Bids, at the Contractor's own expense.
19

20

21

22 **Examination Of Plans, Specifications And Site Of Work**

23

24 **1-02.5 Proposal Forms**

25 *(June 27, 2011 APWA GSP)*
26

27

28 Delete this section and replace it with the following:
29

30

31 The Proposal Form will identify the project and its location and describe the work. It will
32 also list estimated quantities, units of measurement, the items of work, and the materials
33 to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal
34 form that call for, but are not limited to, unit prices; extensions; summations; the total bid
35 amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment
36 of addenda; the bidder's name, address, telephone number, and signature; the bidder's
37 D/M/WBE commitment, if applicable; a State of Washington Contractor's Registration
38 Number; and a Business License Number, if applicable. Bids shall be completed by
39 typing or shall be printed in ink by hand, preferably in black ink. The required
40 certifications are included as part of the Proposal Form.

38

39 The Contracting Agency reserves the right to arrange the proposal forms with alternates
40 and additives, if such be to the advantage of the Contracting Agency. The bidder shall

1 bid on all alternates and additives set forth in the Proposal Form unless otherwise
2 specified.

3
4 **1-02.6 Preparation of Proposal**

5
6 Supplement the second paragraph with the following:

7
8 *(June 27, 2011 APWA GSP)*

9 Supplement the second paragraph with the following:

10 4. If a minimum bid amount has been established for any item, the unit or lump sum
11 price must equal or exceed the minimum amount stated.

12 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be
13 initialed by the signer of the bid.

14 Delete the last paragraph, and replace it with the following:

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

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

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

21 A bid by a joint venture shall be executed in the joint venture name and signed by a
22 member of the joint venture. A copy of the joint venture agreement shall be submitted
23 with the Bid Form if any D/W/MBE requirements are to be satisfied through such an
24 agreement.

25
26

27 **1-02.7 Bid Deposit**

28 *(October 1, 2005 APWA GSP)*

29

30 Supplement this section with the following:

31

32 Bid bonds shall contain the following:

33 1. Contracting Agency-assigned number for the project;

34 2. Name of the project;

35 3. The Contracting Agency named as obligee;

36 4. The amount of the bid bond stated either as a dollar figure or as a percentage which
37 represents five percent of the maximum bid amount that could be awarded;

38 5. Signature of the bidder's officer empowered to sign official statements. The signature
39 of the person authorized to submit the bid should agree with the signature on the
40 bond, and the title of the person must accompany the said signature;

41 6. The signature of the surety's officer empowered to sign the bond and the power of
42 attorney.

43

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

3
4 **1-02.13 Irregular Proposals**
5 *(March 25, 2009 APWA GSP)*

6
7 Revise item 1 to read:

- 8
9 1. A proposal will be considered irregular and will be rejected if:
10 a. The Bidder is not prequalified when so required;
11 b. The authorized proposal form furnished by the Contracting Agency is not
12 used or is altered;
13 c. The completed proposal form contains any unauthorized additions, deletions,
14 alternate Bids, or conditions;
15 d. The Bidder adds provisions reserving the right to reject or accept the award,
16 or enter into the Contract;
17 e. A price per unit cannot be determined from the Bid Proposal;
18 f. The Proposal form is not properly executed;
19 g. The Bidder fails to submit or properly complete a Subcontractor list, if
20 applicable, as required in Section 1-02.6;
21 h. The Bidder fails to submit or properly complete a Disadvantaged, Minority or
22 Women's Business Enterprise Certification, if applicable, as required in
23 Section 1-02.6;
24 i. The Bid Proposal does not constitute a definite and unqualified offer to meet
25 the material terms of the Bid invitation; or
26 j. More than one proposal is submitted for the same project from a Bidder under
27 the same or different names.

28
29 **1-02.15 Pre Award Information**
30 *(October 1, 2005 APWA GSP)*

31
32 Revise this section to read:

- 33
34 Before awarding any contract, the Contracting Agency may require one or more of these
35 items or actions of the apparent lowest responsible bidder:
36 1. A complete statement of the origin, composition, and manufacture of any or all
37 materials to be used,
38 2. Samples of these materials for quality and fitness tests,
39 3. A progress schedule (in a form the Contracting Agency requires) showing the order
40 of and time required for the various phases of the work,
41 4. A breakdown of costs assigned to any bid item,
42 5. Attendance at a conference with the Engineer or representatives of the Engineer,
43 6. Obtain, and furnish a copy of, a business license to do business in the city or county
44 where the work is located.
45 7. A copy of State of Washington Contractor's Registration, or
46 8. Any other information or action taken that is deemed necessary to ensure that the
47 bidder is the lowest responsible bidder.
48
49

1 **1-03.1 Consideration of Bids**

2 *(January 23, 2006 APWA GSP)*

3

4 Revise the first paragraph to read:

5

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

17

18

19 **1-03.3 Execution of Contract**

20 *(October 1, 2005 APWA GSP)*

21

22 Revise this section to read:

23

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

28

29 Within 7 calendar days after the award date, the successful bidder shall return the signed
30 Contracting Agency-prepared contract, an insurance certification as required by Section
31 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before
32 execution of the contract by the Contracting Agency, the successful bidder shall provide
33 any pre-award information the Contracting Agency may require under Section 1-02.15.

34

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

39

40 If the bidder experiences circumstances beyond their control that prevents return of the
41 contract documents within the calendar days after the award date stated above, the
42 Contracting Agency may grant up to a maximum of 7 additional calendar days for return
43 of the documents, provided the Contracting Agency deems the circumstances warrant it.

44

45 **1-03.4 Contract Bond**

46 *(October 1, 2005 APWA GSP)*

47

48 Revise the first paragraph to read:

49

50 The successful bidder shall provide an executed contract bond for the full contract
51 amount. This contract bond shall:

52

1. Be on a Contracting Agency-furnished form;

- 1 2. Be signed by an approved surety (or sureties) that:
 - 2 a. Is registered with the Washington State Insurance Commissioner, and
 - 3 b. Appears on the current Authorized Insurance List in the State of Washington
 - 4 published by the Office of the Insurance Commissioner,
- 5 3. Be conditioned upon the faithful performance of the contract by the Contractor within
- 6 the prescribed time;
- 7 4. Guarantee that the surety shall indemnify, defend, and protect the Contracting
- 8 Agency against any claim of direct or indirect loss resulting from the failure:
 - 9 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
 - 10 subcontractors of the Contractor) to faithfully perform the contract, or
 - 11 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
 - 12 Contractor) to pay all laborers, mechanics, subcontractors, lower tier
 - 13 subcontractors, material person, or any other person who provides supplies or
 - 14 provisions for carrying out the work;
- 15 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign
- 16 the bond; and
- 17 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
- 18 proprietor or partner). If the Contractor is a corporation, the bond must be signed by
- 19 the president or vice-president, unless accompanied by written proof of the authority
- 20 of the individual signing the bond to bind the corporation (i.e., corporate resolution,
- 21 power of attorney or a letter to such effect by the president or vice-president).
- 22
- 23

24 SCOPE OF THE WORK

25
26 (*****)

27 1-04.1(3) Additives

28
29 Add the following new section:

30
31 The bid documents include two schedules consisting of additives. Inclusion or exclusion of

32 any of the additives will not change any other provisions in the contract.

34 Bid Proposal

35 The bid proposal is composed of the following parts:

36 1. Base Bid

37 The base bid shall include constructing all items included in the proposal

38 *except* those items contained in the Additive Bid Schedules C and D

40 2. Additives:

41 a. Additive Schedule C

42 Based on constructing the traffic signal and 67th Ave NE and 211th Pl. NE and the traffic signal

43 revision at 67th Ave NE and 204th St. NE.

44 The bid items for Additive Schedule C are as listed in the bid proposal.

46 b. Additive Schedule D

47 Based on constructing the fiber optic conduit and handholes, and the non-potable water main.

48 The bid items for Additive Schedule D are as listed in the bid proposal.

50 Bidding Procedures

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To be considered responsive the bidder shall submit a price on each and every item of work included in the Base Bid and all Additives.

Award Procedures

The successful bidder will be the bidder submitting the lowest responsible bid for the preference, listed in the order below, which is within the amount of Available Funds for the project to be announced at the time of the bid opening. Available Funds will be announced immediately prior to the opening of bids.

- 1. Preference 1: Lowest total for (Base Bid plus Additive Schedule C plus Additive Schedule D)
 - 2. Preference 2: Lowest total for (Base Bid plus Additive Schedule C)
 - 3. Preference 3: Lowest total for (Base Bid plus Additive Schedule D).
 - 4. Preference 4: Lowest total for Base Bid.
- In any case, the award will be subject to the requirements of Section 1-03.

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

(October 1, 2005 APWA GSP)

Revise the second paragraph to read:

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

- 1. Addenda,
- 2. Proposal Form,
- 3. Special Provisions, including APWA General Special Provisions, if they are included,
- 4. Contract Plans,
- 5. Amendments to the Standard Specifications,
- 6. WSDOT Standard Specifications for Road, Bridge and Municipal Construction,
- 7. Contracting Agency's Standard Plans (if any), and
- 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

CONTROL OF WORK

(March 9, 2012 COA GSP)

Section 1-05 is supplemented with the following:

Record Drawings and Other Documents

Description

Record drawings and other documents are documents to be maintained and annotated by the Contractor during construction as follows: (1) a neatly and legibly marked set of Contract Plans showing the final location of piping, structures, paving limits, curbs, gutters, sidewalks, relocated utility structures, monuments, channelization, etc.; (2) additional documents such as schedules, lists, drawings, and easement/permit forms

1 Unless otherwise specified, record drawings shall be full sized and maintained in a
2 clean, dry, and legible condition. Record documents shall not be used for construction
3 purposes and shall be available for review by the Contracting Agency during normal
4 working hours at the Contractor's field Office. At the completion of the Work and prior to
5 final payment, all record drawings and attachments shall be submitted to the
6 Contracting Agency.

7
8 The record drawings shall be prepared concurrently with the Work being performed and
9 shall be kept current at all times. Annotations to the record documents shall be made
10 with an erasable colored pencil conforming to the following color code:

11
12 Additions..... Red
13 Deletions..... Green
14 Comments..... Blue
15

16 The record drawings shall identify all existing or abandoned utilities that were found
17 during construction and not shown on the original Contract Plans. The drawings shall
18 include the exact location of all deviations from the bid project plans with the station and
19 offsets.

20
21 The Contractor will be provided with one set of Contract Plans for this purpose. At the
22 end of the project, each record drawing and other document shall be signed by the
23 Contractor, attesting to the accuracy of the drawing or other document.

24
25 **Payment**

26
27 "Record Drawings," lump sum

28
29 The price bid for "Record Drawings" shall constitute full compensation for all labor,
30 equipment, and materials necessary to provide to the City of Gold Bar prior to final
31 payment the "as-built" plans.

32
33 **Plans And Working Drawings**

34
35 Section 1-05.3 is supplemented with the following:

36
37 *(August 2, 2004 WSDOT GSP)*

38 When submittals require review by the railroad, the Engineer will require up to 60
39 calendar days from the date the submittals are received until they are returned to the
40 Contractor. If a submittal is returned unapproved and then resubmitted, then an
41 additional review time of up to 60 calendar days will be required.

42
43 If more than 60 calendar days are required for the Engineer's review of any individual
44 submittal or resubmittal, an extension of time will be considered in accordance with
45 Section 1-08.8.

46
47 *(*****)*

48 All submittals must be submitted for Engineer's review through the SharePoint system –
49 see Section 1-08.11 of these Special Provisions. Submit electronically using processes
50 and forms detailed in SharePoint. If a plan sheet is too large to scan, or if samples are
51 submitted, reference them through SharePoint as being submitted under separate

1 cover, and submit a minimum of 3 copies/samples each. One copy of each submittal will
2 be returned to the Contractor with the appropriate comments.

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Conformity With And Deviations From Plans And Stakes

Section 1-05.4 is supplemented with the following:

(April 4, 2011 WSDOT GSP)
Contractor Surveying - Roadway

Copies of the Contracting Agency provided primary survey control data are available for the bidder's inspection at the office of the Project Engineer.

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

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

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

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

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

1. Verify the primary horizontal and vertical control furnished by the Contracting Agency, and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.
2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and at points on the alignments spaced no further than 50 feet.
3. Establish clearing limits, placing stakes at all angle points and at intermediate points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown in the Plans.

- 1 4. Establish grading limits, placing slope stakes at centerline increments not more
2 than 50 feet apart. Establish offset reference to all slope stakes. If Global
3 Positioning Satellite (GPS) Machine Controls are used to provide grade
4 control, then slope stakes may be omitted at the discretion of the Contractor
5
- 6 5. Establish the horizontal and vertical location of all drainage features, placing
7 offset stakes to all drainage structures and to pipes at a horizontal interval not
8 greater than 25 feet.
9
- 10 6. Establish roadbed and surfacing elevations by placing stakes at the top of
11 subgrade and at the top of each course of surfacing. Subgrade and surfacing
12 stakes shall be set at horizontal intervals not greater than 50 feet in tangent
13 sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-
14 foot intervals in intersection radii with a radius less than 10 feet. Transversely,
15 stakes shall be placed at all locations where the roadway slope changes and
16 at additional points such that the transverse spacing of stakes is not more than
17 12 feet. If GPS Machine Controls are used to provide grade control, then
18 roadbed and surfacing stakes may be omitted at the discretion of the
19 Contractor.
20
- 21 7. Establish intermediate elevation benchmarks as needed to check work
22 throughout the project.
23
- 24 8. Provide references for paving pins at 25-foot intervals or provide simultaneous
25 surveying to establish location and elevation of paving pins as they are being
26 placed.
27
- 28 9. For all other types of construction included in this provision, (including but not
29 limited to channelization and pavement marking, illumination and signals,
30 guardrails and barriers, and signing) provide staking and layout as necessary
31 to adequately locate, construct, and check the specific construction activity.
32
- 33 10. The Contractor shall collect additional topographic survey data as needed in
34 order to match into existing roadways such that the transition from the new
35 pavement to the existing pavement is smooth and that the pavement and
36 ditches drain properly. If changes to the profiles or roadway sections shown in
37 the contract plans are needed to achieve proper smoothness and drainage
38 where matching into existing features, the Contractor shall submit these
39 changes to the Project Engineer for review and approval 10 days prior to the
40 beginning of work.
41

42 The Contractor shall provide the Contracting Agency copies of any calculations and
43 staking data when requested by the Engineer.
44

45 To facilitate the establishment of these lines and elevations, the Contracting Agency will
46 provide the Contractor with primary survey control information consisting of descriptions
47 of two primary control points used for the horizontal and vertical control, and
48 descriptions of two additional primary control points for every additional three miles of
49 project length. Primary control points will be described by reference to the project
50 alignment and the coordinate system and elevation datum utilized by the project. In
51 addition, the Contracting Agency will supply horizontal coordinates for the beginning and

1 ending points and for each Point of Intersection (PI) on each alignment included in the
2 project.

3
4 The Contractor shall ensure a surveying accuracy within the following tolerances:

	<u>Vertical</u>	<u>Horizontal</u>
5		
6		
7	Slope stakes	±0.10 feet
8	Subgrade grade stakes set	±0.10 feet
9	0.04 feet below grade	±0.01 feet
10		±0.5 feet
11		(parallel to alignment)
12		±0.1 feet
13		(normal to alignment)
14	Stationing on roadway	N/A
15	Alignment on roadway	±0.1 feet
16	Surfacing grade stakes	±0.04 feet
17		±0.5 feet
18		(parallel to alignment)
19		±0.1 feet
20		(normal to alignment)
21	Roadway paving pins for	
22	surfacing or paving	±0.01 feet
23		±0.2 feet
24		(parallel to alignment)
25		±0.1 feet
26		(normal to alignment)

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

29
30 When staking roadway alignment and stationing, the Contractor shall perform
31 independent checks from different secondary control to ensure that the points staked
32 are within the specified survey accuracy tolerances.

33
34 The Contractor shall calculate coordinates for the alignment. The Contracting Agency
35 will verify these coordinates prior to issuing approval to the Contractor for commencing
36 with the work. The Contracting Agency will require up to seven calendar days from the
37 date the data is received.

38
39 Contract work to be performed using contractor-provided stakes shall not begin until the
40 stakes are approved by the Contracting Agency. Such approval shall not relieve the
41 Contractor of responsibility for the accuracy of the stakes.

42
43 Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
44 needed that are not described in the Plans, then those stakes shall be marked, at no
45 additional cost to the Contracting Agency as ordered by the Engineer.

46

1 (*****)
2 When requested by the Engineer, the Contractor shall spot check line and grade of
3 underground utility installations. Utility installations shall be installed within the following
4 tolerances:

	<u>Vertical</u>	<u>Horizontal</u>
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9 **(April 4, 2011 WSDOT GSP)**

10 ***Licensed Surveyors***

11 The Contractor shall be responsible for reestablishing or locating legal survey markers
12 such as GLO monuments or property corner monuments, conduct boundary surveys to
13 determine Contracting Agency right-of-way locations, and obtain, review and analyze
14 deeds and records as necessary to determine these boundaries. The Contracting
15 Agency will provide "rights of entry" as needed by the Contractor to perform the work.

16
17 The Contractor shall brush out or clear and stake or mark the right-of-way lines as
18 designated by the Engineer.

19
20 The Contractor shall inform the Engineer when monuments are discovered that were
21 not identified in the Plans and construction activity may disturb or damage the
22 monuments. All monuments noted on the plans "DO NOT DISTURB" shall be protected
23 throughout the length of the project or be replaced at Contractors expense.

24
25 When required, the Contractor shall prepare and file a Record of Survey map in
26 accordance with RCW 58.09 and provide a recorded copy to the Contracting Agency.
27 The Contracting Agency will provide all existing base maps, existing horizontal and
28 vertical control, and other material available with Washington State Plane Coordinate
29 information to the Contractor. The Contracting Agency will also provide maps, plan
30 sheets, and/or aerial photographs clearly identifying the limits of the areas to be
31 surveyed. The Contractor shall establish Washington State Plane Coordinates on all
32 points required in the Record of Survey and other points designated in the Contract
33 documents.

34
35 Existing right of way documentation, existing base maps, existing horizontal and vertical
36 control descriptions, maps, plan sheets, aerial photographs and all other available
37 material may be viewed by prospective bidders at the office of the Project Engineer.

38
39 The Contractor shall perform all of the necessary calculations for the contracted survey
40 work and shall provide copies of these calculations to the Contracting Agency.
41 Electronic files of all survey data shall be provided and in a format acceptable to the
42 Contracting Agency.

43
44 All survey work performed by the Contractor shall conform to all applicable sections of
45 the Revised Code of Washington and the Washington Administrative Code.

46
47 The Contractor shall provide all traffic control, signing, and temporary traffic control
48 devices in order to provide a safe work zone.

49
50 ***Payment***

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

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"Roadway Surveying", lump sum.

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

Payment will be made in accordance with Section 1-09.6 for the following bid item when included in the proposal:

"Licensed Surveying", Force Account.

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

(*****)

Utilities

When requested by the Engineer, Contractor shall pothole to determine the depth of underground facilities with 3 working days. Potholing shall be paid for as force account by "Utility Potholing."

When requested by the Engineer, Contractor shall make changes to the plans and/or specifications to avoid conflicts with existing utilities. These changes shall be paid for as force account by "Utility Conflicts."

Payment will be made in accordance with Section 1-09.6 for the following bid item when included in the proposal:

"Utility Potholing", force account.

"Utility Conflicts", force account.

1-05.7 Removal of Defective and Unauthorized Work

(October 1, 2005 APWA GSP)

Supplement this section with the following:

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

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

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

8
9 No adjustment in contract time or compensation will be allowed because of the delay in
10 the performance of the work attributable to the exercise of the Contracting Agency's
11 rights provided by this Section.

12
13 The rights exercised under the provisions of this section shall not diminish the
14 Contracting Agency's right to pursue any other avenue for additional remedy or damages
15 with respect to the Contractor's failure to perform the work as required.

16
17

18 **1-05.11 Final Inspection**

19

20 Delete this section and replace it with the following:

21

22 **1-05.11 Final Inspections and Operational Testing**
23 *(October 1, 2005 APWA GSP)*

24

25 **1-05.11(1) Substantial Completion Date**

26

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

34

35 If, after this inspection, the Engineer concurs with the Contractor that the work is
36 substantially complete and ready for its intended use, the Engineer, by written notice to
37 the Contractor, will set the Substantial Completion Date. If, after this inspection the
38 Engineer does not consider the work substantially complete and ready for its intended
39 use, the Engineer will, by written notice, so notify the Contractor giving the reasons
40 therefore.

41

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

47

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

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

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

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

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

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

1-05.11(3) Operational Testing

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

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

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

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1-05.13 Superintendents, Labor and Equipment of Contractor
(March 25, 2009 APWA GSP)

Revise the seventh paragraph to read:

Whenever the Contracting Agency evaluates the Contractor's qualifications pursuant to Section 1-02.14, it will take these performance reports into account.

Cooperation With Other Contractors

Section 1-05.14 is supplemented with the following:

(March 13, 1995 WSDOT GSP)

Other Contracts Or Other Work

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

<u>Utility</u>	<u>Work</u>
Snohomish PUD	Relocate poles and overhead wires
Frontier Communications	Relocate wires on PUD poles
AT&T	Relocate underground duct

(*****)

The Contractor shall provide access to all existing manholes, catch basins, and other utility structures for cleaning by the City.

1-05.15 Method of Serving Notices

Replace Section 1-05.15 in its entirety with the following:

(March 13, 2012 COA GSP)

Any written notice or correspondence from the Project Engineer or Contractor required under these Specifications may be served via the following methods:

- In person
- Postal mail
- Courier
- Express mail
- Fax
- Email
- Other electronic methods as approved by Project Engineer

If served via email, correspondence or notices normally included as part of a form or letter shall be sent as an attachment. Transcribing information into the body of an email will not constitute such notice and will not comply with the requirements of the Contract.

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Add the following new section:

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

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

Add the following new section:

1-05.17 Oral Agreements
(October 1, 2005 AWPA GSP)

No oral agreement or conversation with any officer, agent, or employee of the Contracting Agency, either before or after execution of the contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the contract. Such oral agreement or conversation shall be considered as unofficial information and in no way binding upon the Contracting Agency, unless subsequently put in writing and signed by the Contracting Agency.

CONTROL OF MATERIAL

Section 1-06 is supplemented with the following:

Buy America
(August 2, 2010)

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

1 shape, or the final finish is considered a manufacturing process. The processes include
2 rolling, extruding, machining, bending, grinding, drilling, welding, and coating. The action
3 of applying a coating to steel or iron is deemed a manufacturing process. Coating
4 includes epoxy coating, galvanizing, aluminizing, painting, and any other coating that
5 protects or enhances the value of steel or iron. Any process from the original reduction
6 from ore to the finished product constitutes a manufacturing process for iron.
7

8 Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and
9 alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced
10 iron ore.
11

12 The following are considered to be steel manufacturing processes:
13

- 14 1. Production of steel by any of the following processes:
 - 15 a. Open hearth furnace.
 - 16 b. Basic oxygen.
 - 17 c. Electric furnace.
 - 18 d. Direct reduction.
- 19 2. Rolling, heat treating, and any other similar processing.
- 20 3. Fabrication of the products.
 - 21 a. Spinning wire into cable or strand.
 - 22 b. Corrugating and rolling into culverts.
 - 23 c. Shop fabrication.

24 A certification of materials origin will be required for any items comprised of, or
25 containing, steel or iron construction materials prior to such items being incorporated
26 into the permanent work. The certification shall be on DOT Form 350-109EF provided
27 by the Engineer, or such other form the Contractor chooses, provided it contains the
28 same information as DOT Form 350-109EF.
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33

34 **LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

35 Section 1-07 is supplemented with the following:
36
37

38 (February 25, 2011 COA GSP)

39 **Ownership of Documents**

40 On payment to the Contractor by the City of all compensation due under this Agreement all
41 finished or unfinished documents and material prepared by the Contractor with funds
42 provided by this Agreement shall become the property of the City and shall be forwarded to
43 the City at its request.
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1-07.1 Laws to be Observed
(October 1, 2005 APWA GSP)

Supplement this section with the following:

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

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

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

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

(April 3, 2006 WSDOT GSP)
Confined Space

Confined spaces are known to exist at the following locations:

- Underground utilities, including manholes, catch basins, and vaults
- Underground culverts

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

The Contractor shall prepare and implement a confined space program for each of the confined spaces identified above. The Contractor's Confined Space program shall be sent to the contracting agency at least 30 days prior to the Contractor beginning work in or adjacent to the confined space. No work shall be performed in or adjacent to the confined space until the plan is submitted to the Engineer as required. The Contractor shall communicate with the Project Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both the Contracting Agency's and Contractor's workers when working in or near a confined space.

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

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1-07.2 State Taxes

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

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

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

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

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

1-07.2(1) State Sales Tax — Rule 171

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

1-07.2(2) State Sales Tax — Rule 170

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

1 For work performed in such cases, the Contractor shall collect from the Contracting
2 Agency, retail sales tax on the full contract price. The Contracting Agency will
3 automatically add this sales tax to each payment to the Contractor. For this reason, the
4 Contractor shall not include the retail sales tax in the unit bid item prices, or in any other
5 contract amount subject to Rule 170, with the following exception.
6

7 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor
8 or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or
9 consumable supplies not integrated into the project. Such sales taxes shall be included
10 in the unit bid item prices or in any other contract amount.
11

12 **1-07.2(3) Services**

13
14 The Contractor shall not collect retail sales tax from the Contracting Agency on any
15 contract wholly for professional or other services (as defined in Washington State
16 Department of Revenue Rules 138 and 244).
17

18 The third paragraph of Section 1-07.2 is revised to read:

19
20 (June 27, 2011)

21 The Contracting Agency will release the Contract Bond only if the Contractor has
22 obtained from the State Department of Revenue a certificate showing that all Contract-
23 related taxes have been paid.
24

25 **Environmental Regulations**

26
27 Section 1-07.5 is supplemented with the following:

28
29 (*September 20, 2010 WSDOT GSP*)

30 ***Environmental Commitments***

31 The following Provisions summarize the requirements, in addition to those required
32 elsewhere in the Contract, imposed upon the Contracting Agency by the various
33 documents referenced in the Special Provision PERMITS AND LICENSES. Throughout
34 the work, the Contractor shall comply with the following requirements:
35

36 (August 3, 2009)

37 Materials placed below OHW or MHHW may not consist of trash, debris, car
38 bodies, asphalt, or other potentially contaminating materials.
39

40 (August 3, 2009)

41 Any temporary fills placed below OHW or within wetlands must be removed in their
42 entirety and the affected areas returned to their preexisting elevation.
43

44 (August 3, 2009)

45 The Contractor shall notify the Engineer a minimum of 14 calendar days prior to
46 commencing any work in environmentally sensitive areas, mitigation areas, and
47 wetland buffers. Installation of construction fencing is excluded from this notice
48 requirement. At the time of notification, the Contractor shall submit a work plan for
49 review and approval detailing how the work will be performed. Plan detail must be
50 sufficient to verify that work is in conformance with all contract provisions.
51

52 (August 3, 2009)

1 No Contractor staging areas will be allowed within 50 feet of any waters of the
2 State including wetlands.

3
4 *(August 3, 2009 WSDOT GSP)*

5 **Payment**

6 All costs to comply with this special provision for the environmental commitments and
7 requirements are incidental to the contract and are the responsibility of the Contractor.
8 The Contractor shall include all related costs in the associated bid prices of the contract.
9

10 **Permits And Licenses**

11
12 Section 1-07.6 is supplemented with the following:

13
14 *(September 20, 2010 WSDOT GSP)*

15 The Contracting Agency has obtained the below-listed permit(s) for this project. A copy
16 of the permit(s) is attached as an appendix for informational purposes. All contacts with
17 the permitting agency concerning the below-listed permit(s) shall be through the
18 Engineer. The Contractor shall obtain additional permits as necessary. All costs to
19 obtain and comply with additional permits shall be included in the applicable bid items
20 for the work involved. Copies of these permits are required to be onsite at all times.
21

NAME OF DOCUMENT	PERMITTING AGENCY	PERMIT REFERENCE NO.
Department of the Army Section 404 Nationwide \$\$\$ (Enter the number of the Nationwide being used)	Corps of Engineers Seattle District	NWS-2009-1202
ESA Section 7 Letter of Concurrence	U.S. Fish and Wildlife Service/National Marine Fisheries Service	<ul style="list-style-type: none">• USFWS Ref. No. 13410- 2011-I-0140• NMFS Reference No. 2011/00325
Section 401 Water Quality Certification	Department of Ecology	N/A
Section 401 Letter of Verification	Department of Ecology	N/A
Coastal Zone Management Consistency Certification	Department of Ecology	N/A
Temporary Modification of Water Quality Standards	Department of Ecology	N/A
NPDES Industrial Stormwater Permit for Construction Activities	Department of Ecology	N/A
Hydraulic Project Approval	Department of Fish & Wildlife	123904-1
Critical Area Ordinance Permit	City of Arlington	N/A
Grade and Fill Permit	City of Arlington	N/A
Compliance Implementing Agreement (2004)	Department of Ecology	N/A

22

1 **Load Limits**

2

3 **General**

4

5 Section 1-07.7(1) is supplemented with the following:

6

7 *(March 13, 1995 WSDOT GSP)*

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

11

12 **Wages**

13

14 **General**

15

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

17

18 *(January 10, 2012 WSDOT GSP)*

19 The Federal wage rates incorporated in this contract have been established by the
20 Secretary of Labor under United States Department of Labor General Decision No.
21 WA120001.

22

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

25

26 *(April 2, 2007 WSDOT GSP)*

27 **Application of Wage Rates For The Occupation Of Landscape Construction**

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

30

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

35

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

39

40 Laborers with the occupation description, Landscaping or Planting, or

41

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

44

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

50

51 Contractors are responsible for determining the appropriate crafts necessary to
52 perform the contract work. If a classification considered necessary for performance

1 of the work is missing from the Federal Wage Determination applicable to the
2 contract, the Contractor shall initiate a request for approval of a proposed wage and
3 benefit rate. The Contractor shall prepare and submit Standard Form 1444,
4 Request for Authorization of Additional Classification and Wage Rate available at
5 <http://www.wdol.gov/docs/sf1444.pdf>, and submit the completed form to the Project
6 Engineer's office. The presence of a classification wage on the Washington State
7 Prevailing Wage Rates For Public Works Contracts does not exempt the use of
8 form 1444 for the purpose of determining a federal classification wage rate.
9

10 **1-07.9(5) Required Documents**

11 *(January 24, 2011 APWA GSP)*
12

13 Supplement this section with the following:
14

15 The Contractor or subcontractor directly contracting for "Off-Site, Prefabricated, Non-
16 Standard, Project Specific Items" as defined below shall identify and report information
17 required on the addendum to the "Affidavit of Wages Paid" form filed with the
18 Department of Labor and Industries [form F700-164-000]. The Contractor shall include
19 language in its subcontracts requiring subcontractors and lower-tier subcontractors to
20 comply with the reporting requirements for "Off-Site, Prefabricated, Non-Standard,
21 Project Specific Item" on the Affidavit of Wages Paid form addendum.
22

23 The reporting requirement for Items shall apply for all public works contracts estimated to
24 cost over \$1 million entered into by the Contracting Agency and Contractor between
25 September 1, 2010 through December 31, 2013.
26

27 "Off-site, prefabricated, nonstandard, project specific items" means products or items
28 that are:

- 29 1. Made primarily of architectural or structural precast concrete, fabricated steel,
30 pipe and pipe systems, or sheet metal and sheet metal duct work; and
- 31 2. Produced specifically for this Project and not considered to be regularly available
32 shelf items; and
- 33 3. Produced or manufactured by labor expended to assemble or modify standard
34 items; and
- 35 4. Produced at an off-site location outside the State of Washington.
36

37 The Contractor or subcontractor shall comply with the reporting requirements and
38 instructions on the Affidavit of Wages Paid form, and shall report the following
39 information on the Affidavit of Wages Paid form submitted to the Department of Labor
40 and Industries in order to comply with the reporting requirements for use of "Off-Site,
41 Prefabricated, Non-Standard, Project Specific" items:

- 42 1. The estimated cost of the project;
- 43 2. The name of the Contracting Agency and the project title;
- 44 3. The contract value of the off-site, prefabricated, nonstandard, project specific
45 items produced outside of Washington State, including labor and materials; and
- 46 4. The name, address, and federal employer identification number of the contractor
47 that produced the off-site, prefabricated, nonstandard, project specific items.
48

49 The Contracting Agency may direct the Contractor, at no additional cost to the
50 Contracting Agency, to remove and substitute any subcontractor(s) found to be

1 out of compliance with the "Off-Site Prefabricated Non-Standard Project Specific
2 Items" reporting requirements more than one time as determined by the
3 Department of Labor and Industries.
4

5 **Requirements For Nondiscrimination**
6

7 Section 1-07.11 is supplemented with the following:
8

9 *(January 3, 2011 WSDOT GSP)*

10 Requirement For Affirmative Action to Ensure Equal Employment Opportunity
11 (Executive Order 11246)
12

- 13 1. The Contractor's attention is called to the Equal Opportunity Clause and the
14 Standard Federal Equal Employment Opportunity Construction Contract
15 Specifications set forth herein.
16
17 2. The goals and timetables for minority and female participation set by the Office of
18 Federal Contract Compliance Programs, expressed in percentage terms for the
19 Contractor's aggregate work force in each construction craft and in each trade on
20 all construction work in the covered area, are as follows:
21

22 Women - Statewide

23 Timetable

Goal

24 Until further notice 6.9%

25 Minorities - by Standard Metropolitan Statistical Area (SMSA)

26 Spokane, WA:

27 SMSA Counties:

28 Spokane, WA 2.8

29 WA Spokane.

30 Non-SMSA Counties 3.0

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

33 Richland, WA

34 SMSA Counties:

35 Richland Kennewick, WA 5.4

36 WA Benton; WA Franklin.

37 Non-SMSA Counties 3.6

38 WA Walla Walla.

39 Yakima, WA:

40 SMSA Counties:

41 Yakima, WA 9.7

42 WA Yakima.

43 Non-SMSA Counties 7.2

44 WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.
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1	Seattle, WA:	
2	SMSA Counties:	
3	Seattle Everett, WA	7.2
4	WA King; WA Snohomish.	
5	Tacoma, WA	6.2
6	WA Pierce.	
7	Non-SMSA Counties	6.1
8	WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap;	
9	WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA	
10	Thurston; WA Whatcom.	

11		
12	Portland, OR:	
13	SMSA Counties:	
14	Portland, OR-WA	4.5
15	WA Clark.	
16	Non-SMSA Counties	3.8
17	WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.	

18

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

24

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

37

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

47

48 District Director
49 U.S. Department of Labor
50 Office of Federal Contract Compliance Programs
51 Seattle District Office
52 1111 Third Avenue, Suite 745

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Seattle, WA 98101-3212

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

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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.

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- 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 therefore, 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

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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,

- 1 makes every effort to assure that the group has a positive impact on the
2 employment of minorities and women in the industry, ensure that the concrete
3 benefits of the program are reflected in the Contractor's minority and female work-
4 force participation, makes a good faith effort to meet its individual goals and
5 timetables, and can provide access to documentation which demonstrate the
6 effectiveness of actions taken on behalf of the Contractor. The obligation to
7 comply, however, is the Contractor's and failure of such a group to fulfill an
8 obligation shall not be a defense for the Contractor's noncompliance.
9
- 10 9. A single goal for minorities and a separate single goal for women have been
11 established. The Contractor, however, is required to provide equal employment
12 opportunity and to take affirmative action for all minority groups, both male and
13 female, and all women, both minority and non-minority. Consequently, the
14 Contractor may be in violation of the Executive Order if a particular group is
15 employed in substantially disparate manner (for example, even though the
16 Contractor has achieved its goals for women generally, the Contractor may be in
17 violation of the Executive Order if a specific minority group of women is
18 underutilized).
19
- 20 10. The Contractor shall not use the goals and timetables or affirmative action
21 standards to discriminate against any person because of race, color, religion, sex,
22 or national origin.
23
- 24 11. The Contractor shall not enter into any subcontract with any person or firm
25 debarred from Government contracts pursuant to Executive Order 11246.
26
- 27 12. The Contractor shall carry out such sanctions and penalties for violation of these
28 specifications and of the Equal Opportunity Clause, including suspensions,
29 terminations and cancellations of existing subcontracts as may be imposed or
30 ordered pursuant to Executive Order 11246, as amended, and its implementing
31 regulations by the Office of Federal Contract Compliance Programs. Any
32 Contractor who fails to carry out such sanctions and penalties shall be in violation
33 of these specifications and Executive Order 11246, as amended.
34
- 35 13. The Contractor, in fulfilling its obligations under these specifications, shall
36 implement specific affirmative action steps, at least as extensive as those
37 standards prescribed in paragraph 7 of this Special Provision, so as to achieve
38 maximum results from its efforts to ensure equal employment opportunity. If the
39 Contractor fails to comply with the requirements of the Executive Order, the
40 implementing regulations, or these specifications, the Director shall proceed in
41 accordance with 41 CFR 60-4.8.
42
- 43 14. The Contractor shall designate a responsible official to monitor all employment
44 related activity to ensure that the company EEO policy is being carried out, to
45 submit reports relating to the provisions hereof as may be required by the
46 government and to keep records. Records shall at least include, for each
47 employee, their name, address, telephone numbers, construction trade, union
48 affiliation if any, employee identification number when assigned, social security
49 number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer),
50 dates of changes in status, hours worked per week in the indicated trade, rate of
51 pay, and locations at which the work was performed. Records shall be maintained
52 in an easily understandable and retrievable form; however, to the degree that

- 1 existing records satisfy this requirement, the Contractors will not be required to
2 maintain separate records.
3
4 15. Nothing herein provided shall be construed as a limitation upon the application of
5 other laws which establish different standards of compliance or upon the
6 application of requirements for the hiring of local or other area residents (e.g., those
7 under the Public Works Employment Act of 1977 and the Community Development
8 Block Grant Program).
9
10 16. Additional assistance for Federal Construction Contractors on contracts
11 administered by Washington State Department of Transportation or by Local
12 Agencies may be found at:

13
14 Washington State Dept. of Transportation
15 Office of Equal Opportunity
16 PO Box 47314
17 310 Maple Park Ave. SE
18 Olympia WA
19 98504-7314
20 Ph: 360-705-7090
21 Fax: 360-705-6801
22 <http://www.wsdot.wa.gov/equalopportunity/default.htm>
23

24 ***(July 11, 2011 WSDOT GSP)***

25 ***Disadvantaged Business Enterprise Condition of Award Participation***

26 The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 applies
27 to this Contract. Demonstrating goal achievement as described in these specifications
28 is a Condition of Award (COA) of this Contract. Failure to comply with the requirements
29 of this specification will result in your bid being found to be nonresponsive and will be
30 rejected.
31

32 **DBE Condition of Award (COA) Goal**

33 The Contracting Agency has established a Condition of Award Contract goal in the
34 amount of: 14%.
35

36 **DBE Eligibility/Selection of DBEs**

37 A Directory of Certified DBE Firms denoting the Work the DBE Contractors are
38 certified to perform is available at:
39 www.omwbe.wa.gov/certification/index.shtml.
40

41 The directory provides a plain language of Description of Work that the listed DBE's
42 have been certified by the Office of Minority and Women's Business Enterprises
43 (OMWBE) to perform. The Bidder shall use the Directory of Certified DBE Firms to
44 determine if a DBE is certified to perform Work as described on the Disadvantaged
45 Business Enterprise Utilization Certification form # 272-056 EF (see form
46 instructions) and therefore qualifies for credit towards the COA goal.
47

48 **Crediting DBE Participation**

49 **Joint Venture**

50 When a DBE performs as a participant in a joint venture, only that portion of
51 the total dollar value of the Contract equal to the distinct, clearly defined
52 portion of the Work that the DBE performs with its own forces shall be credited.

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DBE Prime Contractor

A DBE prime Contractor may only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime performs with its own forces.

DBE Subcontractor

When a DBE firm participates as a Subcontractor only that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces shall be credited.

- Include the cost of supplies and materials obtained by the DBE for the Work in the Contract including supplies purchased or equipment leased by the DBE.
 - However, you may not take credit for supplies, materials, and equipment the DBE Subcontractor purchases or leases from the prime Contractor or its affiliate. In addition, Work performed by a DBE, utilizing resources of the prime Contractor or its affiliates shall not be credited.
- In very rare situations, a DBE firm may utilize equipment and/or personnel from a non-DBE firm other than the prime Contractor or its affiliates. Should this situation arise the arrangement must be short-term and have prior written approval from the Contracting Agency.
- Count the entire value of fees or commissions charged by a DBE firm for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance.
- When a DBE subcontracts to another firm, the value of the subcontracted Work may be counted as participation only if the DBE's lower tier Subcontractor is also a DBE. Work that a DBE subcontracts to a non-DBE firm does not count toward DBE goals.
- 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 certified to perform and performing with its own forces.

Trucking

Use the following factors in determining whether a DBE trucking company is performing a commercially useful function:

1. The DBE must be responsible for the management and supervision of the entire trucking operation for which credit is being claimed.
2. The DBE must itself own and, with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract.

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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 #3 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. Provided 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.
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.

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A manufacturer is defined as 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.

In order to receive credit as a DBE manufacturer, the firm must have received an “on-site” review and been approved by WSDOT-OEO to operate as a DBE Manufacturing firm prior to Bid opening on any USDOT federally-assisted Contract. Use of a DBE manufacturer that has not received an on-site review and approval by WSDOT-OEO prior to Bid opening will result in the Bid being declared non-responsive. To schedule a review, the manufacturing firm must submit a written request to WSDOT/OEO and may not receive credit towards DBE participation until the completion of the review. Once the Office of Equal Opportunity has received the request, an onsite will be set up with the firm and a review will be conducted to determine the requesting firm’s qualifications. If it is determined that the firm qualifies as a “Manufacturer” the Office of Equal Opportunity will list the firm on an Approved Manufacturers List which will be maintained by the Office of Equal Opportunity. The Office of Equal Opportunity Home website address is: www.wsdot.wa.gov/equalopportunity. Approved firms will be required to be re-approved on an annual basis.

Note: Requests to be listed as a Manufacturer will only be processed if the requesting firm is certified by the Office of Minority and Women’s Business Enterprises with NAICS codes that fall within the 31XXXX to 33XXXX NAICS Manufacturers code sections.

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. Materials or supplies purchased from a Regular Dealer count as 60% of the cost for DBE participation purposes.

The firm wishing to be listed as a Regular Dealer for WSDOT contracted projects or Highways & Local Program administered projects must submit to the WSDOT Office of Equal Opportunity (No later than Seven days prior to bid opening) a request in writing to be recognized by WSDOT as a Regular Dealer.

Once the Office of Equal Opportunity has received the request, an onsite will be set up with the firm and a review will be conducted to determine the

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requesting firm’s qualifications. If it is determined that the firm qualifies as a “Regular Dealer” the Office of Equal Opportunity will list the firm on an Approved Regular Dealers List which will be maintained by the Office of Equal Opportunity. The Office of Equal Opportunity Home website is at: www.wsdot.wa.gov/equalopportunity. . Approved firms will be required to be re-approved on an annual basis.

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 with NAICS codes that fall within the 42XXXX NAICS Wholesale code section.

The Office of Equal Opportunity will maintain an active Approved Manufacturers and Approved Regular Dealers lists on their website but will provide a link to be posted on Ad & Award’s webpage.

Materials or Supplies Purchased from a DBE

With regard to materials or supplies purchased from a DBE who is neither a manufacturer nor a regular dealer you may claim credit for the following:

1. Fees or commissions charged for assistance in the procurement of the materials and supplies
2. Fees or transportation charges for the delivery of materials or supplies.

In either case you may not take credit for any part of the cost of the materials and supplies.

Commercially Useful Function (CUF)

The prime contractor has a responsibility and must treat the working relationship with the DBE such that the DBE is performing a commercially useful function. The contractor may only take credit when the associated DBE is performing a commercially useful function.

- A DBE performs a commercially useful function when it is responsible for execution of the 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.
- A DBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, Contract, or project through which funds are passed.
- Use of two party checks must be approved by the contracting agency in advance of their use.

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Disadvantaged Business Enterprise Utilization Certification FORM # 272-056 EF

To be eligible for award of the Contract, the Bidder shall properly complete and submit a Disadvantaged Business Enterprise Utilization Certification with the Bidder's sealed Bid Proposal, as specified Section 1-02.9 Delivery of Proposal, that demonstrates how the Bidder intends to meet the DBE COA goal. A Disadvantaged Business Enterprise Utilization Certification (form # 272-056 EF) is included in your Proposal package for this purpose as well as instructions on how to properly fill out the form.

In the event of arithmetic errors in completing the Disadvantaged Business Enterprise Utilization Certification the amount listed to be applied towards the goal for each DBE shall govern and the DBE total amount shall be adjusted accordingly.

Note: the Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a completed and accurate Disadvantaged Business Enterprise Utilization Certification.

Disadvantaged Business Enterprise (DBE) Written Confirmation Document(s) FORM # 422-031 EF

The Bidder shall submit a complete and accurate Disadvantaged Business Enterprise (DBE) Written Confirmation Document for each DBE firm listed in the Bidder's completed Disadvantaged Business Enterprise Utilization Certification. Alternate forms that provide all the same information will also serve this purpose.

A Disadvantaged Business Enterprise (DBE) Written Confirmation Document (form # 422-031 EF) is included in your Proposal package for this purpose.

When provided for in the contract; the form(s) shall be received as specified in Section 1-02.9 Delivery of Proposal. Forms that are submitted as a supplement to the Bidder's sealed Bid shall meet the requirements as specified in Section 1-02.9 Delivery of Proposal.

Refer to Section 1-02.9 Delivery of Proposal for information related to submitting supplemental documents.

Note the Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal (including supplements, if any), submitted that does not contain a completed and accurate Disadvantaged Business Enterprise (DBE) Written Confirmation Document (form # 422-031 EF) for each and every DBE listed on the Bidder's completed DBE Utilization Certification for which you are claiming participation.

Selection of Successful Bidder/Good Faith Efforts (GFE)

The successful Bidder shall be selected on the basis of having submitted the lowest responsive Bid, which demonstrates good faith effort to achieve the DBE COA goal in one of the two manners as follows:

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Note: The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain one of the following:

1. **Bidder demonstrates GFE by meeting the goal**
The best indication of good faith efforts is to document, through submission of the Disadvantaged Business Enterprise Utilization Certification and supporting Disadvantaged Business Enterprise Written Confirmation Document(s) that the Bidder has obtained enough DBE participation to meet or exceed the assigned DBE COA goal. That being the case no additional GFE documentation is required.
2. **Bidder demonstrates GFE through documentation of their efforts**
ONLY IN THE EVENT bidder's efforts to solicit sufficient DBE participation have been unsuccessful. In this case, Bidder must supply GFE documentation in addition to the Disadvantaged Business Enterprise Utilization Certification, and supporting Disadvantaged Business Enterprise Written Confirmation document(s).

In the case where the bidder does not meet the goal through participation the advertised DBE goal will not be reduced to the Bidder's partial commitment. The Bidder shall make a GFE during the life of the Contract to attain the DBE Condition of Award (COA) Goal as assigned to the project. Good Faith Effort documentation will only be required in the event the DBE goal has not been attained.

Good Faith Efforts (GFE)

GFE documentation shall be received, as specified in Section 1-02.9 Delivery of Proposal.

Based upon all the relevant documentation submitted with the Bid the Contracting Agency shall determine whether the Bidder has made sufficient GFEs to achieve DBE participation. The Contracting Agency will make a fair and reasonable judgment of whether a Bidder that did not meet the goal through participation, made adequate good faith efforts as demonstrated by the GFE documentation.

The following is a list of types of actions, which would be considered as part of the Bidder's GFEs to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases:

1. Attendance by the Bidder at any pre-solicitation or pre-Bid meetings that were scheduled by the Contracting Agency to inform DBEs of Contracting and subcontracting or material supply opportunities available on the project;
2. Contacting local Tribes, Tribal Employment Rights Offices (TERO) concerning the subcontracting or supply opportunities in sufficient time to allow the enterprises to participate effectively;

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3. Selection by the Bidder of specific economically feasible units of the project to be performed by DBEs in order to increase the likelihood of participation by DBEs even if the Bidder preferred to perform these Work items as the prime Contractor;
4. Advertising by the Bidder in general circulation, trade association minority and trade oriented, women focus publications, concerning the subcontracting or supply opportunities;
5. Providing written notice from the Bidder to a reasonable number of specific DBEs, identified from the OMWBE Directory of Certified DBE Firms for the selected subcontracting or material supply Work, in sufficient time to allow the enterprises to participate effectively;
6. Follow-up by the Bidder of initial solicitations of interest by contacting the DBEs to determine with certainty whether they were interested. Documentation of this kind of action shall include the information outlined below:
 - a. The names, addresses, telephone numbers of DBEs who were contacted, the dates of initial contact, and whether initial solicitations of interest were followed-up by contacting the DBEs to determine with certainty whether the DBEs were interested;
 - b. A description of the information provided to the DBEs regarding the plans, specifications, and estimated quantities for portions of the Work to be performed;
 - c. Documentation of each DBE contacted but rejected and the reason(s) for that rejection;
7. Providing, to interested DBEs, adequate information about the plans, specifications, and requirements for the selected subcontracting or material supply Work;
8. Negotiating in good faith with the DBE firms, and not, without justifiable reason, rejecting as unsatisfactory, Bids that are prepared by any DBE. The DBE's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations - union vs. non-union employee status - are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the project goal;
9. Advertising and making efforts to obtain DBE participation that were reasonably expected to produce a level of participation sufficient to meet the goal or requirements of the Contracting Agency;
10. Making any other efforts to obtain DBE participation that were reasonably expected to produce a level of participation sufficient to meet the goal or requirements of the Contracting Agency;

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11. Using the services of minority community organizations, minority Contractor groups, local, State, and federal minority business assistance offices and other organizations identified by WSDOT and advocates for disadvantaged, minority, and women businesses that provide assistance in the recruitment and placement of disadvantaged, minority, and women business enterprises; and
12. Using the WSDOT Office of Equal Opportunity DBE Supportive Services to assist you. For more information please contact the Office of Equal Opportunity by calling toll free at (888) 259-9143 or emailing dbess@wsdot.wa.gov.

Administrative Reconsideration

Any Bidder has the right to reconsideration only for the purpose of reassessing their Good Faith Effort (GFE) documentation that was determined to be inadequate.

- The Bidder must request and schedule a reconsideration hearing within seven calendar days of notification of being nonresponsive or forfeit the right to reconsideration.
- The WSDOT Office of Equal Opportunity decision on reconsideration of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a reasonable and adequate effort.
- The official shall provide the Bidder with a written decision on reconsideration within five business days of the hearing explaining the basis for their finding.

Procedures between Award and Execution

After award of the Contract, the successful Bidder shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit. The Contracting Agency will notify the successful Bidder of the award of the Contract in writing and will include a request for a further breakdown of DBE information as follows:

1. Additional information for all successful DBE's as shown on the Disadvantaged Business Enterprise Utilization Certification:
 - a. Correct business name, federal employee identification number (if available), and mailing address.
 - b. List of all Bid items assigned to each successful DBE firm, including unit prices and extensions.
 - c. Description of partial items (if any) to be sublet to each successful DBE firm specifying the distinct elements of Work

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under each item to be performed by the DBE and including the dollar value of the DBE portion.

Note: Total amounts shown for each DBE shall not be less than the amount shown on the Disadvantaged Business Enterprise Utilization Certification. A breakdown that does not conform to the Disadvantaged Business Enterprise Utilization Certification or that demonstrates a lesser amount of DBE participation than that included in the Disadvantaged Business Enterprise Utilization Certification will be returned for correction.

2. A list of all firms who submitted a Bid or quote in an attempt to participate in this project whether they were successful or not. Include the business name and a mailing address.

Note: The firms identified by the Contractor may be contacted to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three-years.

Procedures after Execution
Crediting DBE Participation toward Meeting the Goal Reporting

All DBE work whether COA or race neutral participation is reported. The 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. The dollars are to be reported as specified herein.

In the event that the payments to a DBE have been made by an entity other than the prime Contractor (as in the case of a lower-tier Subcontractor or supplier), then the prime Contractor shall obtain the quarterly report, including the signed affidavit, from the paying entity and submit the report to the Contracting Agency.

Changes in DBE COA participation
Owner initiated Change Orders

The prime Contractor shall demonstrate a GFE to substitute other DBE COA participation when the Contracting Agency reduces quantities or deletes Work items by change order that impact a DBE's Work.

Where the Contract allows alternate Work methods which serve to delete or create under-runs in COA DBE Work then the Contractor must provide documentation of negotiating the change with the DBE that was to perform the reduced Work and demonstrate a GFE to substitute other DBE COA participation.

Original Quantity Under runs

In the event that Work committed to a DBE firm as part of the COA under runs the original planned quantities the prime Contractor shall demonstrate a GFE to substitute other DBE COA participation.

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Contractor-Initiated Proposals—General

The contractor shall request a replacement in writing and that request shall address the following:

1. Must have prior written consent of the Contracting Agency.
2. If the reduction is due to a perceived or real performance issue the contractor must demonstrate that the DBE is unable or unwilling to perform the Work.
3. Must provide documentation that the prime negotiated the change with the DBE in good faith.

In the case of any contractor caused DBE work reduction or proposal the Contractor shall commit to a substitution in participation not less than the original DBE participation

Decertification

When a DBE is performing as a COA in any capacity and the DBE becomes decertified during the course of the Work for reasons other than graduation, the portion of the Work performed after the decertification shall not be credited and the contractor is obligated to make a good faith effort to substitute other DBE participation to meet the goal.

Termination

The Contractor shall not terminate for convenience a DBE subcontractor and then perform the Work of the terminated subcontract with its own forces or those of an affiliate, without prior written consent from the Engineer. The Contractor must make a GFE to replace a DBE subcontractor who is unable to perform successfully with another DBE to perform the same amount of Work.

Before transmitting a request to terminate and/or substitute a DBE subcontractor, the prime contractor must give notice in writing to the DBE subcontractor, with a copy to the Contracting Agency, of its intent to request to terminate and/or substitute, and the reason for the request.

The prime contractor must give the DBE five days to respond to the prime contractor’s notice and advise the Contracting Agency and the (prime) contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Contracting Agency should not approve the prime contractor’s action.

Counting payments

Payments to a DBE firm will count toward DBE goals only if the participation is in accordance with the conditions of Crediting DBE Participation including the requirement for the DBE to be performing a Commercially Useful Function.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with section 1-08.1(1) of these contract specifications.

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Payment

Compensation for all costs involved with complying with the conditions of this specification and any other associated DBE requirements is included in payment for the associated Contract items of Work.

Damages for Noncompliance

The Contractor 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 Contracts, which contain funding assistance from the United States Department of Transportation. 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.

If the Contractor does not comply with any part of its Contract as required under 49 CFR part 26, and/or any other applicable law or regulation regarding DBE, the Contracting Agency may withhold payment, suspend the ability of the Contractor to participate in future Contracting Agency contracts, impose sanctions or terminate the Contract, and subject the Contractor to civil penalties of up to ten percent of the amount of the Contract for each violation. In the case of WSDOT Contracts, prequalification maybe suspended pursuant to WAC 468-16-180, and continuous violations (exceeding a single violation) may also disqualify the Contractor from further participation in WSDOT Contracts for a period of up to three years.

An apparent low Bidder must be in compliance with these Contract Provisions as a condition precedent to the granting of a notice of award by the Contracting Agency. The Contractor is entitled to request an adjudicative proceeding with respect to the Contracting Agency's determination of Contract violation and assessed penalties by filing a written application within thirty days of receipt of notification. The adjudicative proceeding, if requested, will be conducted by an administrative law judge pursuant to the procedures set forth in RCW 34.05 and Chapter 10.08 of the Washington Administrative Code.

(August 2, 2010 WSDOT GSP)
Special Training Provisions

General Requirements

The Contractor's equal employment opportunity, affirmative action program shall include the requirements set forth below. The Contractor shall provide on-the-job training aimed at developing trainees to journeyman status in the trades involved. The number of training hours shall be 800. Trainees shall not be assigned less than 400 hours. The Contractor may elect to accomplish training as part of the work of a subcontractor, however, the Prime Contractor shall retain the responsibility for complying with these Special Provisions. The Contractor shall also ensure that this training provision is made applicable to any subcontract that includes training.

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Trainee Approval

The Federal government requires Contracting Agencies to include these training provisions as a condition attached to the receipt of Federal highway funding. The Federal government has determined that the training and promotion of members of certain minority groups and women is a primary objective of this training provision. The Contractor shall make every effort to enroll minority groups and women trainees to the extent such persons are available within a reasonable recruitment area. This training provision is not intended and shall not be used to discriminate against any applicant for training, whether that person is a minority, woman or otherwise. A non-minority male trainee or apprentice may be approved provided the following requirements are met:

1. The Contractor is otherwise in compliance with the contract's Equal Employment Opportunity and On-the-Job Training requirements and provides documentation of the efforts taken to fill the specific training position with either minorities or females
2. or, if not otherwise in compliance, furnishes evidence of his/her systematic and direct recruitment efforts in regard to the position in question and in promoting the enrollment and/or employment of minorities and females in the craft which the proposed trainee is to be trained
3. and the Contractor has made a good faith effort towards recruiting of minorities and women. As a minimum this good faith effort shall consist of the following:
 - Distribution of written notices of available employment opportunities with the Contractor and enrollment opportunities with its unions. Distribution should include but not be limited to; minority and female recruitment sources and minority and female community organizations;
 - Records documenting the Contractor's efforts and the outcome of those efforts, to employ minority and female applicants and/or refer them to unions;
 - Records reflecting the Contractor's efforts in participating in developing minority and female on-the-job training opportunities, including upgrading programs and apprenticeship opportunities;
 - Distribution of written notices to unions and training programs disseminating the Contractor's EEO policy and requesting cooperation in achieving EEO and OJT obligations.

No employee shall be employed as a trainee in any classification in which the employee has successfully completed a training course leading to journeyman status or in which the employee has been employed as a journeyman. The Contractor's records shall document the methods for determining the trainee's status and findings in each case. When feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

1 For the purpose of this specification, acceptable training programs are those
2 employing trainees/apprentices registered with the following:

3
4 1. Washington State Department of Labor & Industries — State
5 Apprenticeship Training Council (SATC) approved apprenticeship
6 agreement:

7
8 a. Pursuant to RCW 49.04.060, an apprenticeship agreement shall
9 be;

10
11 i. an individual written agreement between an employer
12 and apprentice

13 ii. a written agreement between (an employer or an
14 association of employers) and an organization of
15 employees describing conditions of employment for
16 apprentices

17 iii. a written statement describing conditions of
18 employment for apprentices in a plant where there is no
19 bona fide employee organization.
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21 All such agreements shall conform to the basic standards and other
22 provisions of RCW Chapter 49.

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24 2. Apprentices must be registered with U.S. Department of Labor — Bureau
25 of Apprenticeship Training (BAT) approved program.

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27 Or

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29 3. Trainees participating in a non-BAT/SATC program, which has been
30 approved by the contracting agency for the specific project.

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32 4. For assistance in locating trainee candidates, the Contractor may call
33 WSDOT's OJT Support Services Technical Advisor at (360) 705-7088,
34 (206) 587-4954 or toll free at 1-866-252-2680.
35

36 **Obligation to Provide Information**

37 Upon starting a new trainee, the Contractor shall furnish the trainee a copy of the
38 approved program the Contractor will follow in providing the training. Upon
39 completion of the training, the Contractor shall provide the Contracting Agency with
40 a certification showing the type and length of training satisfactorily completed by
41 each trainee.
42

43 **Training Program Approval**

44 The Training Program shall meet the following requirements:

45
46 1. The Training Program (DOT Form 272-049) must be submitted to the
47 Engineer for approval prior to commencing contract work and shall be
48 resubmitted when modifications to the program occur.

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50 2. The minimum length and type of training for each classification will be as
51 established in the training program as approved by the Contracting
52 Agency.

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3. The Training Program shall contain the trades proposed for training, the number of trainees, the hours assigned to the trade and the estimated beginning work date for each trainee.
4. Unless otherwise specified, Training Programs will be approved if the proposed number of training hours equals the training hours required by contract and the trainees are not assigned less than 400 hours each.
5. After approval of the training program, information concerning each individual trainee and good faith effort documentation shall be submitted on (DOT Form 272-050.)
6. In King County, laborer trainees or apprentices will not be approved on contracts containing less than 2000 training hours as specified in this Section. In King County, no more than twenty percent (20%) of hours proposed for trainees or apprentices shall be in the laborer classification when the contract contains 2000 or more hours of training as specified in this Section. Trainees shall not be assigned less than 400 hours.
7. Flagging programs will not be approved. Other programs that include flagging training will only be approved if the flagging portion is limited to an orientation of not more than 20 hours.
8. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented toward construction applications. Some off-site training is permissible as long as the training is an integral part of an approved training program.
9. It is normally expected that a trainee will begin training on the project as soon as feasible after start of work, utilizing the skill involved and remain on the project as long as training opportunities exist in the work classification or upon completion of the training program. It is not required that all trainees be on board for the entire length of the contract. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.
10. Wage Progressions: Trainees will be paid at least the applicable ratios or wage progressions shown in the apprenticeship standards published by the Washington State Department of Labor and Industries. In the event that no training program has been established by the Department of Labor and Industries, the trainee shall be paid in accordance with the provisions of RCW 39.12.021 which reads as follows:

Apprentice workmen employed upon public works projects for whom an apprenticeship agreement has been registered and approved with the State Apprenticeship Council pursuant to RCW 49.04, must be paid at least the prevailing hourly rate for an apprentice of that trade. Any workman for whom an apprenticeship agreement has not been registered and approved by the State Apprenticeship Council shall be

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considered to be a fully qualified journeyman, and, therefore, shall be paid at the prevailing hourly rate for journeymen.

Compliance

In the event that the Contractor is unable to accomplish the required training hours but can demonstrate a good faith effort to meet the requirements as specified, then the Contracting Agency will adjust the training goals accordingly.

Requirements for Non BAT/SATC Approved Training Programs

Contractors who are not affiliated with a program approved by BAT or SATC may have their training program approved provided that the program is submitted for approval on DOT Form 272-049, and the following standards are addressed and incorporated in the Contractor’s program:

- The program establishes minimum qualifications for persons entering the training program.
- The program shall outline the work processes in which the trainee will receive supervised work experience and training on-the-job and the allocation of the approximate time to be spent in each major process. The program shall include the method for recording and reporting the training completed shall be stated.
- The program shall include a numeric ratio of trainees to journeymen consistent with proper supervision, training, safety, and continuity of employment. The ratio language shall be specific and clear as to application in terms of job site and workforce during normal operations (normally considered to fall between 1:10 and 1:4).
- The terms of training shall be stated in hours. The number of hours required for completion to journeyman status shall be comparable to the apprenticeship hours established for that craft by the SATC. The following are examples of programs that are currently approved:

CRAFT	HOURS
Laborer	4,000
Ironworker	6,000
Carpenter	5,200-8,000
Construction Electrician	8,000
Operating Engineer	6,000-8,000
Cement Mason	5,400
Teamster	2,100

- The method to be used for recording and reporting the training completed shall be stated.
- A numeric ratio of trainees to journeymen shall be established. It shall be consistent with proper supervision, training, safety and continuity of employment. The ratio language shall be specific and clear as to application in terms of job site and workforce during normal operations.

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Measurement

The Contractor may request that the total number of “training” hours for the contract be increased subject to approval by the Contracting Agency. This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other sources do not prohibit other reimbursement. Reimbursement to the Contractor for off-site training as indicated previously may only be made when the Contractor does one or more of the following and the trainees are concurrently employed on a Federal-aid project:

- contributes to the cost of the training,
- provides the instruction to the trainee,
- pays the trainee’s wages during the off- site training period.

Reimbursement will be made upon receipt of a certified invoice that shows the related payroll number, the name of trainee, total hours trained under the program, previously paid hours under the contract, hours due this estimate, and dollar amount due this estimate. The certified invoice shall show a statement indicating the Contractor’s effort to enroll minorities and women when a new enrollment occurs. If a trainee is participating in a SATC/BAT approved apprenticeship program, a copy of the certificate showing apprenticeship registration must accompany the first invoice on which the individual appears. Reimbursement for training occurring prior to approval of the training program will be allowed if the Contractor verbally notifies the Engineer of this occurrence at the time the apprentice/trainee commences work. A trainee/apprentice, regardless of craft, must have worked on the contract for at least 20 hours to be eligible for reimbursement.

Payment

The Contractor will be reimbursed under the item “Training” per hour for each hour of training for each employee.

Federal Agency Inspection

Section 1-07.12 is supplemented with the following:

(March 13, 1995 WSDOT GSP)

Required Federal Aid Provisions

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) and the amendments thereto 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, as amended, are less restrictive than Washington State Law, then the Washington State Law shall prevail.

The provisions of FHWA 1273, as amended, included in this contract require that the Contractor insert the FHWA 1273 and amendments thereto in each subcontract, together with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall be included in each subcontract requiring the Subcontractors to insert the FHWA 1273 and amendments 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

1 will be provided with extra copies of the FHWA 1273, the amendments thereto, the
2 applicable wage rates, and this Special Provision.
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4 **Responsibility for Damage**

5 (April 5, 2012 COA GSP)

6 Section 1-07.14, paragraphs three through five are deleted and replaced with the following:
7

8 ***Hold Harmless and Indemnification***
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10 Subject to the limitations in RCW 4.24.115, the Contractor shall indemnify, defend, and
11 hold harmless the City, (and the State), its elected and appointed officials, officers,
12 employees, agents, and representatives from all claims, losses, suits, actions, legal or
13 administrative proceedings, costs, attorney's fees (including attorney's fees in
14 establishing indemnification of whatsoever nature), litigation costs, expenses, damages,
15 penalties, fines, judgments, or decrees by reason of any death, injury or disability to or
16 of any person or party, including employees, and/or damage to any property or
17 business, including loss of use, caused in whole or in part by any act, error or omission
18 of the Contractor, Contractor's employees, agents, or subcontractors arising out of or
19 suffered, directly or indirectly, by reason of or in connection with the performance of this
20 Contract.
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22 The Contractor's obligation shall include, but not be limited to, investigation, adjusting,
23 and defending all claims alleging loss from any action, error or omission or breach of
24 any common law, statutory or delegated duty by the Contractor, Contractor's
25 employees, agents, or subcontractors.
26

27 The Contractor's obligations to indemnify, defend, and hold harmless shall apply even if
28 the injuries, death or damages, directly or indirectly, result from, arise out of or relate to,
29 one or more negligent acts or omissions of the City or its elected and appointed officials,
30 officers, employees, agents, representatives, or any other party acting for or on behalf of
31 the City, its agents and its employees acting within the scope of their employment. If
32 the claim, suit, or action for injuries, death, or damages as provided for in the preceding
33 paragraphs of this agreement is caused by or results from the concurrent negligence of
34 (a) the City, its elected and appointed officials, officers, employees, agents and
35 representatives and (b) the Contractor, Contractor's employees, agents or
36 subcontractors, the indemnity provisions provided in for the preceding paragraphs of
37 this specifications shall be valid and enforceable only to the extent of the Contractor's
38 negligence.
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40 It is specifically and expressly understood that the contractor shall assume all potential
41 liability for actions brought by employees of the Contractor and, solely for the purpose of
42 enforcing the defense and indemnification obligations provided herein, the Contractor
43 specifically waives immunity under the State Industrial Insurance law, Title 51 RCW.
44 The Contractor expressly agrees that he has provided for this waiver of immunity in the
45 bid price for this Contract and that this waiver has been mutually negotiated by the
46 parties.
47

48 In addition to any remedy authorized by law, the City may retain so much of the money
49 due to the Contractor as deemed necessary by the Director to assure indemnification
50 until final resolution has been made of any suits or claims.

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Protection And Restoration Of Property

Public/Private Property

Section 1-07.16(1) is supplemented with the following:

(*****)

The City has acquired temporary construction easements and driveway temporary construction easements to facilitate project construction. At no time are these temporary easements to be used for laydown or equipment storage. Access to each driveway within the project limits must be maintained at all times. During driveway construction, the Contractor may limit access to one half of the driveway at any time, but must provide appropriate traffic control and flagging to ensure safe operation, ingress, and egress. All traffic control measures to be used for driveway access must be addressed in the Contractor Traffic Control Plan as described in Section 1-10.2.

The following table illustrates specific agreements that have been made with property owners that must be adhered to:

Parcel Number	Owner Name	Requirements
31051100302500	Gale Rose, LLC	During construction, Stark Bulkheads will be able to access the temporary construction easement for ingress and egress of trucks with 24 hours notice to the City and the prime construction contractor.
31051100301800 and 31051100301700	Money Saver Arlington, LLC	Existing shrubs adjacent to the south driveway removed by the road widening shall be placed on the Money Saver property where directed by the owner. Shrub roots and root ball will be preserved to the maximum extent practicable.
3310511-003-026-00, 310511-003-006-00, 310511-003-020-00, 310511-003-069-00 and 310511-003-070-00	Marion Andrew Taylor and Patricia L. Taylor	<p>Rubber tired equipment only is to be used on Mr. Taylor's properties. At no time shall any tracked equipment enter the properties. Mr. Taylor shall be consulted and shall approve prior to any trucks entering his property.</p> <p>Trucks and trailers used to transport construction equipment or materials shall not be staged or operated on Mr. Taylor's property.</p> <p>In the Portage Creek wetland mitigation area, work shall be limited to the non-paved area and no equipment shall be used or located on the pavement. Access to the wetland mitigation area can be made via the easement on the east edge of the property and across the 69th Ave NE roadbed at the wetland mitigation area.</p> <p>Any damage to pavement, curbing, landscaping, or other items must be repaired or replaced to the satisfaction of the Engineer.</p> <p>Taylor Industrial Park signs shall be protected at all times.</p>

		<p>Any survey stakes, property corners, or survey pins disturbed during construction must be replaced by a licensed professional surveyor.</p> <p>Prior to construction on Mr. Taylor's property, a pre-construction meeting must be scheduled and held with Mr. Taylor and the Engineer. The Contractor shall discuss plans for access on Mr. Taylor's property, construction methods, equipment to be used, and schedule for construction on Mr. Taylor's property.</p> <p>Pavement constructed on Mr. Taylor's property must match the existing surface smoothness of the existing pavement to the satisfaction of the Engineer.</p>
31051100305800	Kenneth Lee Wishart and Kathleen P. Wishart	<p>The existing fence that needs to be removed for access to the Temporary Construction Easement area be left for their use. The fence will be removed in sections and laid down within the landowner's property.</p> <p>The children's play equipment within the easement shall be relocated on the owner's property as directed by the Engineer during construction, and replaced in or near the original location as directed by the Engineer following construction.</p>

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Vegetation Protection and Restoration

Section 1-07.16(2) is supplemented with the following:

(August 2, 2010 WSDOT GSP)

Vegetation and soil protection zones for trees shall extend out from the trunk to a distance of 1 foot radius for each inch of trunk diameter at breast height.

Vegetation and soil protection zones for shrubs shall extend out from the stems at ground level to twice the radius of the shrub.

Vegetation and soil protection zones for herbaceous vegetation shall extend to encompass the diameter of the plant as measured from the outer edge of the plant.

Archaeological and Historical Objects

Inadvertent Discovery of Human Skeletal Remains

Replace Section 1-07.16(4)A with the following in its entirety:

(March 29, 2012 COA GSP)

Discovery Procedures

The project presents two primary management issues: 1) Identification and treatment of undiscovered historic properties; and 2) treatment of human remains. A process for identification, evaluation and treatment for all historic properties that may encountered during construction is presented in the following sections.

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Briefing

At the preconstruction meeting, the City will brief construction supervisors on cultural resource issues. The briefing will include information on the legal context of cultural resources protection and on the prehistoric, ethnographic, and historic cultural resources likely to be present in the construction area. The primary goals of this briefing are to familiarize key construction personnel with the procedures that will be followed in the event of discovery of cultural material, or human remains and to provide contact protocols and information to construction supervisors.

Policies and Protocols

As a general policy, and as far as practically feasible, all cultural resources and buried human remains will be avoided and actively preserved. "Cultural resources" is defined here to mean both isolated artifacts and intact cultural deposits. If instances arise where modification of the project to accommodate avoidance is not possible, the cultural resources in question will be treated in the manner described below. Collection of artifacts and human remains by employees, construction personnel or others with access to the project is strictly prohibited by State and Federal law.

Unmonitored Discovery

If archaeological materials, isolated artifacts, or human remains are discovered during construction it will be the responsibility of the Construction Supervisor to alert the City of any such discovery. If the discovery involves human remains, or is determined by a professional archaeologist to be a significant find it will be the responsibility of the City to contact the DAHP and Stillaguamish Tribe.

- If any action is taken as a result of this plan the City will prepare a letter report to be sent to the DAHP and Stillaguamish Tribe detailing the events, results and conclusions of any such action

Archaeological Resources

- In the event cultural resources are discovered during construction the City will contact a professional archaeologist who will evaluate whether the discovery represents an isolated find or is part of an archaeological site. Isolated finds will be reported to the DAHP and Stillaguamish Tribe in a letter report to be prepared upon the conclusion of the project.

Typical markers of pre-contact human activity may include:

fire-modified rock (FMR), animal bone, concentrations of shell, ground and flaked stone tools and flaked stone tool-making debris (e.g. arrowheads and stone chips), burned earth, cordage or fiber, organically stained sediments, charcoal, ash, and exotic rocks and minerals.

Typical markers of significant historic-period human activity may include:

Significant deposits of domestic refuse such as bottles, ceramics, cans, metal fragments and various personal items.

Human Remains

If construction exposes human remains, either burials, or isolated teeth or bones, or mortuary items, construction in the vicinity of the find will halt immediately and the discovery area will be secured to maintain integrity of the

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deposit. Exposed burials or other human remains will be treated with sensitivity and respect.

- The **Construction Supervisor** will assure the **City** is informed immediately of the discovery of human remains.
- The **City** will notify the County Coroner, DAHP, and Stillaguamish Tribe. If the remains are determined to not be Native American, or the location is determined to be a crime scene, the Coroner will take charge.
- The **City** will be responsible for taking appropriate steps to protect the discovery. At a minimum, the immediate area will be secured to a distance of thirty (30) feet from the discovery. Vehicles, equipment, and unauthorized personnel will not be permitted to traverse the discovery site.
- If the remains are determined to be Native American the discovery area will be secured as appropriate pending development of a treatment plan in consultation with the Washington State Historic Preservation Officer (SHPO) and Stillaguamish Tribe.
- In no case will additional excavation be undertaken prior to consultation and development of an approved treatment plan.
- No persons other than the proper law enforcement personnel and the SHPO are authorized direct access to the discovery location after the area is secured. If the remains are determined to be of Native American ancestry, through consultation with the SHPO and other parties, tribal access will be allowed for the tribal representatives identified in this plan. Coordination for tribal member access must go through the designated tribal representative. This is to insure the safety of the remains and the integrity of the burial area.

Proceeding with Construction

Project construction outside the discovery location may continue while documentation and assessment of the cultural resources proceed. The City of Arlington Natural Resources Manager, or other City representative, must determine the boundaries of the discovery location. In consultation with DAHP and affected tribes, Project Manager and Cultural Resources Program staff will determine the appropriate level of documentation and treatment of the resource. If federal agencies are involved, the agencies will make the final determinations about treatment and documentation.

Construction may continue at the discovery location only after the process outlined in this plan is followed and City of Arlington (and the federal agencies, if any) determine that compliance with state and federal laws is complete.

If the Engineer finds that the suspension of Work in the vicinity of the discovery increases or decreases the cost or time required for performance of any part of the Work under this Contract, the Engineer will make an adjustment in payment or the time required for the performance of the Work in accordance with Sections 1-04.4 and 1-08.8.

Contact Info:

City of Arlington

Marc Hayes, Public Works Inspector (425) 754-7446

Eric Scott, Senior Engineer (360) 403-3512

Bill Blake, Stormwater Supervisor (360) 403-3440

- 1 Stillaguamish Tribe
- 2 Victoria Yeager, Cultural Resources (360) 652-7362
- 3 Shawn Yanity, Chairman..... (360) 652-7362
- 4 Snohomish Sheriff Department:
- 5 Emergency 911
- 6 Non-emergency(425) 388-3393
- 7 Snohomish County Medical Examiner (425) 438-6200
- 8 Northwest Archaeological Associates, Inc. (206) 781-1909
- 9 Department of Archaeology and Historic Preservation
- 10 Stephenie Kramer, Assistant State Archaeologist (360) 586-3083
- 11 Dr. Rob Whitlam, State Archaeologist..... (360) 586-3080
- 12 Dr. Allyson Brooks, SHPO (360) 586-3066
- 13 Department of Natural Resources
- 14 Boyd Norton, Forest Practice Coordinator..... (360) 854-2816
- 15
- 16

17 **Utilities and Similar Facilities**

18

19 Section 1-07.17 is supplemented with the following:

20

21 (March 28, 2012 COA GSP)

22 ***Utility Construction, Removal, or Relocation Coordination***

23

24 Locations and dimensions shown in the Plans for existing facilities are in accordance

25 with available information obtained without uncovering, measuring, or other verification.

26

27 Public and private utilities, or their Contractors, will furnish all work necessary to adjust,

28 relocate, replace, or construct their facilities unless otherwise provided for in the Plans

29 or these Special Provisions. Such adjustment, relocation, replacement, or construction

30 will be done during the prosecution of the work for this project. Resetting existing

31 structures to grade shall be performed by the Project Contractor.

32

33 The Contractor shall attend a mandatory utility preconstruction meeting with the City

34 Engineer, all affected subcontractors, and all utility owners and their contractors prior to

35 beginning onsite work.

36

37 The Contractor shall call the Utility Location Request Center (One Call Center) for field

38 location, not less than two and no more than ten business days before the scheduled

39 date for commencement of excavation which may affect underground utilities, unless

40 otherwise agreed upon by the parties involved. If no one-number locator service is

41 available, notice shall be provided individually to those owners known or suspected of

42 having underground facilities within the area of proposed excavation.

43

44 The One Call Center phone number is:

45

46 **Call Before You Dig**

47 **811**

48

49 The following addresses and telephone numbers of utility companies or their

50 Contractors that will be adjusting, relocating, replacing or constructing utilities within the

51 project limits are supplied for the Contractor's convenience:

52

City of Arlington – Utilities 154 W. Cox Arlington, WA 98223 (360) 403-3526	Snohomish County PUD PO Box 1107 Everett, WA 98206-1107 Contact: Erin Burke 425-783-4745
Frontier Communications 595 Pease Rd Burlington, WA 98204 Contact: Wayne Wendell (360) 757-3406 office (360) 308-7581 cel	Community Transit 7100 Hardeson Rd Everett, WA 98203 Contact: Tony Smith (425) 348-2303
AT&T 11241 Willows Road Suite 130 Redmond, WA 98052 Contact Dan McGeough 425-896-9830 office 206-656-2519 cel	Cascade Natural Gas 222 Fairview Ave N Seattle, WA 98109 Contact Roy Klein 360-941-0499
City of Marysville - Utilities 80 Columbia Ave. Marysville, WA 98270 (360)363-8100	Comcast 1525 75 th St SW Suite 200 Everett, WA 98203 Contact: Casey Brown (425) 754-0064 cel (425) 263-5345 office
Centurylink 1313 E Columbia Room 204 Seattle, WA 98112 Contact: Aaron Williams 206-345-6735	Wave Broadband 9300 271 st NW Suite B-1 Stanwood, WA 98292 Contact: Kevin Stanley 425-896-1950
Black Rock Cable 1512 Fairview Street Bellingham, WA 98229 Contact: Aaron Dietrichs 425-512-8069	Arlington Public Schools 315 N French Ave Arlington, WA 98223 360-618-6200
Sprint 2606 70th Ave East Suite 102 Fife, WA 98242 Contact: Wes Carpenter 253-476-6655	BP Olympic Pipeline 2319 Lind Ave SW Renton, WA 98055 Holly Williamson 425-235-7767

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1 **Temporary Utility Shutdowns**

2 Any temporary utility shutdowns necessary for construction of the Project shall require
3 that the Contractor prepare a plan for the shutdown and submit to the Engineer for
4 approval. The plan shall include the schedule and timeline for the shutdown and when
5 service will be restored. In all cases, the Contractor shall notify utilities a minimum of
6 five days prior to any planned utility shutdown. It is the Contractor’s responsibility to
7 obtain approval for the plan no fewer than seven days prior to the planned shutdown.
8

9 No separate payment will be made for temporary utility shutdown plans and costs
10 should be included in other bid items related to the work.
11

12
13 **1-07.18 Public Liability and Property Damage Insurance**

14
15 Delete this section in its entirety, and replace it with the following:

16
17 **1-07.18 Insurance**
18 *(January 24, 2011 APWA GSP)*
19

20 **1-07.18(1) General Requirements**

- 21 A. The Contractor shall obtain the insurance described in this section from insurers
22 approved by the State Insurance Commissioner pursuant to RCW Title 48. The
23 insurance must be provided by an insurer with a rating of A-: VII or higher in the A.M.
24 Best’s Key Rating Guide, which is licensed to do business in the state of Washington (or
25 issued as a surplus line by a Washington Surplus lines broker). The Contracting Agency
26 reserves the right to approve or reject the insurance provided, based on the insurer
27 (including financial condition), terms and coverage, the Certificate of Insurance, and/or
28 endorsements.
29
- 30 B. The Contractor shall keep this insurance in force during the term of the contract and for
31 thirty (30) days after the Physical Completion date, unless otherwise indicated (see C.
32 below).
33
- 34 C. If any insurance policy is written on a claims made form, its retroactive date, and that of
35 all subsequent renewals, shall be no later than the effective date of this Contract. The
36 policy shall state that coverage is claims made, and state the retroactive date. Claims-
37 made form coverage shall be maintained by the Contractor for a minimum of 36 months
38 following the Final Completion or earlier termination of this contract, and the Contractor
39 shall annually provide the Contracting Agency with proof of renewal. If renewal of the
40 claims made form of coverage becomes unavailable, or economically prohibitive, the
41 Contractor shall purchase an extended reporting period (“tail”) or execute another form of
42 guarantee acceptable to the Contracting Agency to assure financial responsibility for
43 liability for services performed.
44
- 45 D. The insurance policies shall contain a “cross liability” provision.
- 46
47 E. The Contractor’s and all subcontractors’ insurance coverage shall be primary and non-
48 contributory insurance as respects the Contracting Agency’s insurance, self-insurance,
49 or insurance pool coverage.
50

- 1 F. The Contractor shall provide the Contracting Agency and all Additional Insureds with
2 written notice of any policy cancellation, within two business days of their receipt of such
3 notice.
4
- 5 G. Upon request, the Contractor shall forward to the Contracting Agency a full and certified
6 copy of the insurance policy(s).
7
- 8 H. The Contractor shall not begin work under the contract until the required insurance has
9 been obtained and approved by the Contracting Agency.
10
- 11 I. Failure on the part of the Contractor to maintain the insurance as required shall
12 constitute a material breach of contract, upon which the Contracting Agency may, after
13 giving five business days notice to the Contractor to correct the breach, immediately
14 terminate the contract or, at its discretion, procure or renew such insurance and pay any
15 and all premiums in connection therewith, with any sums so expended to be repaid to the
16 Contracting Agency on demand, or at the sole discretion of the Contracting Agency,
17 offset against funds due the Contractor from the Contracting Agency.
18
- 19 J. All costs for insurance shall be incidental to and included in the unit or lump sum prices
20 of the contract and no additional payment will be made.
21

22 **1-07.18(2) Additional Insured**

23 All insurance policies, with the exception of Professional Liability and Workers
24 Compensation, shall name the following listed entities as additional insured(s):

- 25 ▪ the Contracting Agency and its officers, elected officials, employees, agents, and
26 volunteers
27 ▪ KBA, Inc.

28 The above-listed entities shall be additional insured(s) for the full available limits of liability
29 maintained by the Contractor, whether primary, excess, contingent or otherwise, irrespective
30 of whether such limits maintained by the Contractor are greater than those required by this
31 Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor
32 pursuant to 1-07.18(3) describes limits lower than those maintained by the Contractor.
33

34 **1-07.18(3) Subcontractors**

35 Contractor shall ensure that each subcontractor of every tier obtains and maintains at a
36 minimum the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request of
37 the Contracting Agency, the Contractor shall provide evidence of such insurance.
38

39 **1-07.18(4) Evidence of Insurance**

40 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
41 endorsements for each policy of insurance meeting the requirements set forth herein when
42 the Contractor delivers the signed Contract for the work. The certificate and endorsements
43 must conform to the following requirements:

- 44 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
45 2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-
46 07.18(2) as Additional Insured(s), showing the policy number. The Contractor may
47 submit a copy of any blanket additional insured clause from its policies instead of a
48 separate endorsement. A statement of additional insured status on an ACORD
49 Certificate of Insurance shall not satisfy this requirement.

1 3. Any other amendatory endorsements to show the coverage required herein.

2

3 **1-07.18(5) Coverages and Limits**

4 The insurance shall provide the minimum coverages and limits set forth below. Providing
5 coverage in these stated minimum limits shall not be construed to relieve the Contractor
6 from liability in excess of such limits. All deductibles and self-insured retentions must be
7 disclosed and are subject to approval by the Contracting Agency. The cost of any claim
8 payments falling within the deductible shall be the responsibility of the Contractor.

9

10 **1-07.18(5)A Commercial General Liability**

11 A policy of Commercial General Liability Insurance, including:

12

13 Per project aggregate

14 Premises/Operations Liability

15 Products/Completed Operations – for a period of one year following final acceptance of
16 the work.

17 Personal/Advertising Injury

18 Contractual Liability

19 Independent Contractors Liability

20 Stop Gap / Employers' Liability

21 Explosion, Collapse, or Underground Property Damage (XCU)

22 Blasting (only required when the Contractor's work under this Contract includes
23 exposures to which this specified coverage responds)

24

25 Such policy must provide the following minimum limits:

26 \$1,000,000 Each Occurrence

27 \$2,000,000 General Aggregate

28 \$1,000,000 Products & Completed Operations Aggregate

29 \$1,000,000 Personal & Advertising Injury, each offence

30

31 Stop Gap / Employers' Liability

32 \$1,000,000 Each Accident

33 \$1,000,000 Disease - Policy Limit

34 \$1,000,000 Disease - Each Employee

35

36 **1-07.18(5)B Automobile Liability**

37 Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90
38 endorsement and a CA 9948 endorsement attached if "pollutants" are to be transported.

39 Such policy(ies) must provide the following minimum limit:

40 \$1,000,000 combined single limit

41

42 **1-07.18(5)C Workers' Compensation**

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

45

46 **1-07.18(5)F Excess or Umbrella Liability**

47 (May 10, 2006 APWA GSP)

48

1 The Contractor shall provide Excess or Umbrella Liability coverage at limits of 1 million per
2 occurrence and annual aggregate. This excess or umbrella liability coverage shall apply, at
3 a minimum, to both the Commercial General and Auto insurance policy coverage.
4

5 This requirement may be satisfied instead through the Contractor's primary Commercial
6 General and Automobile Liability coverage, or any combination thereof.
7

8 *(August 7, 2006 WSDOT GSP)*

9 **Relations With Railroad**

10 Railroad Company, as used in the following specifications, shall be the railroad
11 company or companies, or railway company or companies specified in these Special
12 Provisions. The following provisions, though referring to a single Railroad Company,
13 shall be applicable to each of the following railroad companies or railway companies:
14

15 Burlington Northern Santa Fe (BNSF)
16

17 **Protection of Railroad Property**

18 The Contractor shall exercise care in all operations and shall, at the Contractor's
19 expense, protect the property of the Railroad Company and the Company's
20 appurtenances, property in its custody, or persons lawfully upon its right of way,
21 from damage, destruction, interference or injury caused by the Contractor's
22 operations. The Contractor shall prosecute the work to not interfere with the
23 Railroad Company or its appurtenances, or any of the Railroad Company's trains or
24 facilities, and shall complete the work to a condition that shall not interfere with or
25 menace the integrity or safe and successful operations of the Railroad Company or
26 its appurtenances, or any of the Railroad Company's trains or facilities.
27

28 The Contractor shall not transport equipment, machinery, or materials across the
29 Railroad Company's tracks, except at a public crossing, without the written consent
30 of the Railroad Company.
31

32 The Contractor shall keep the right of way and ditches of the Railroad Company
33 open and clean from any deposits or debris resulting from its operations. The
34 Contractor shall be responsible for the cost to clean and restore ballast of the
35 Railroad Company which is disturbed or becomes fouled with dirt or materials when
36 such deposits or damage result from the Contractor's operations, except as
37 provided elsewhere.
38

39 The Contractor's work shall be conducted in such a manner that there will be a
40 minimum of interference with the operation of railroad traffic. The Railroad
41 Company will specify what periods will be allowed the Contractor for executing any
42 part of the work in which the Railroad Company's tracks will be obstructed or made
43 unsafe for operation of railroad traffic.
44

45 In the event that an emergency occurs in connection with the work specified, the
46 Railroad Company reserves the right to do any and all work that may be necessary
47 to maintain railroad traffic. If the emergency is caused by the Contractor, the
48 Contractor shall pay the Railroad Company for the cost of such emergency work.
49

50 Protective services to protect the Railroad Company's facilities, property, and
51 movement of its trains or engines, including railroad flagging and other devices,

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may be required by the Railroad Company as a result of the Contractor's operations.

The nature and extent of protective services, personnel and other measures required will in all cases be determined by the Railroad Company. Nothing in these specifications will limit the Railroad Company's right to determine and assign the number of personnel, the classes of personnel for protective services, nor other protective measures it deems necessary.

When, in the opinion of the Railroad Company, the services of flaggers or security personnel are necessary for the protection of the Railroad Company's facilities by reason of the Contractor's operations, the Railroad Company will furnish such flaggers or security personnel as may be required. The Contractor shall notify the Railroad Company a minimum of 21 calendar days in advance of whenever the Contractor is about to perform work adjacent to the tracks to enable the Railroad Company to provide flagging or other protective service.

The Railroad Company's contact is:

Megan McIntyre
2454 Occidental Ave S #2-D
Seattle, WA 98134
(206) 625-6413
Megan.McIntyre@BNSF.com

No act of the Railroad Company in supervising or approving any work shall reduce or in any way affect the liability of the Contractor for damages, expense, or cost which may result to the Railroad Company from the construction of this Contract.

Unless otherwise provided, all personnel assigned by the Railroad Company, other than those engaged in performing work by the Railroad Company as listed under Construction Work by Railroad Company, will be considered protective personnel.

In general, the Railroad Company will furnish protective services:

- a. For any excavation below the elevation of the track subgrade, if in the opinion of the Railroad Company's representative, the track or other railroad facilities may be subject to settlement or movement.

For all work over or adjacent to the track if, in the opinion of the Railroad Company's representative, said work represents a hazard to the Railroad Company.

- b. During any clearing, grubbing, grading, or blasting in proximity to the facilities, which in the opinion of the Railroad Company's representative, may endanger or interfere with railroad facilities or operations.
- c. When any of the Contractor's operations take place within or near railroad right of way and, in the opinion of the Railroad Company's representative, could endanger railroad facilities or create a hazard to railroad operations. Communications Linemen or Signalmen may be used to protect

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communications and signal facilities, if deemed necessary by the Railroad Company.

There will be no cost to the Contractor for the railroad protective services unless such services result from the Contractor's failure to comply with the terms and conditions of its contract with the Contracting Agency or with its Contractor's Right of Entry Agreements with the Railroad Companies.

Construction Work by Railroad Company

The work by the Railroad Company as described below will be performed by the Railroad Company with its own forces at no cost to the Contractor:

- Removal of existing ACP crossing at Lebanon
- Installation of concrete crossing at Lebanon

All work which is performed by the Railroad Company at the Contractor's request and which is for the Contractor's benefit or convenience shall be at the Contractor's expense and the Contractor shall reimburse the Railroad Company for all costs for such work.

The Contractor shall cooperate with the Railroad Company and so conduct operations that the necessary reconstruction of its facilities and the removal of existing facilities can be accomplished without interruption of service.

Railroad Protective Liability Insurance

The Contractor shall protect the Railroad Company and any other railroad company occupying or using the Railroad Company's rights of way or lines of railroad against all loss and damages arising from activities of the Contractor or the Contractor's forces or any of the Contractor's Subcontractors or agents.

The Contractor shall furnish for each Railroad Company the original and three certified copies of a Railroad Protective Liability Insurance Policy, naming the Railroad Company as the insured and providing for protection to the Railroad Company in the manner and form described in the Railroad Protective Liability Form as set forth below.

Said insurance shall be executed by a corporation qualified to write insurance in the State of Washington in form and substance satisfactory to the Railroad Company and shall be delivered to the Engineer. The Engineer will submit the insurance to the Railroad Company for its approval. The Contractor shall not enter upon or use the Railroad Company's property until notified by the Engineer of the Railroad Company's approval. The various blank sections of the Railroad Protective Liability Form shall contain the following information:

Named Insured:

BNSF Railway Company
Jones Lang LaSalle

Limits of Liability:

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The combined single limit of the insurance company's liability under this policy to the insured shall be not less than \$1,000,000 for all damages arising out of bodily injuries to or death of any person or persons and for all damages arising out of loss or destruction of or injury or damage to property in any one occurrence and \$2,000,000 aggregate during the policy period. Said insurance policy executed by a corporation qualified to write the same in the State of Washington, shall be in form and substance satisfactory to the Railroad Company and shall be delivered to and approved by the Railroad Company prior to the entry upon or use of its property by the Contractor.

All insurance specified above shall be carried until the physical completion date of the contract as described in Section 1-08.5 except as stated herein.

When all the work involving construction activities within or immediately adjacent to the railroad right of way is completed, the Contractor may make a written request to the Engineer to be relieved of the responsibility to continue all or part of the insurance specified above. If the Engineer deems the portion of the work in that area is complete, the Engineer may approve the Contractor's request. However, if for any reason the Contractor resumes or starts any new work in that area (including being ordered to do so by the Engineer), the insurance shall be reinstated by the Contractor before the work is started. If the insurance must be reinstated because of the Contractor's operations or failure of the Contractor to perform all the contract requirements, the costs shall be the responsibility of the Contractor. If the insurance must be reinstated because of changes to the contract, the costs will be considered in accordance with Section 1-04.4.

Other Insurance Requirements

Business Automobile Insurance. This insurance shall contain a combined single limit of at least \$1,000,000 per occurrence.

Workers Compensation and Employers Liability insurance including coverage for Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 by disease policy limit, \$500,000 by disease each employee.

Commercial General Liability Insurance

A certificate of insurance providing proof of said Insurance, executed by a corporation qualified to write the same in the State of Washington, in form and substance satisfactory to the Railroad Company, shall be delivered to and approved by the Railroad Company prior to the entry upon or use of the Railroad Company's property by the Contractor.

(August 7, 2006 WSDOT GSP)

Contractor's Right of Entry and Insurance Requirements - BNSF

No work shall commence within BNSF Railway Company (BNSF) right of way until the Contractor has executed, delivered, and received in return the fully executed Contractor's Right-of-Entry Agreement from BNSF, and has obtained all of the insurance required by the Railroad. All work within BNSF's right of way shall be in accordance with BNSF's Contractor Requirements and the Contractor's Right of Entry Agreement (See Appendices).

1 The Contractor, its Subcontractors or agents, shall at its own expense, obtain and
2 maintain in force all insurance required by BNSF until the completion date of the
3 contract as described in Section 1-08.5 except as stated herein.
4

5 When all the work involving construction activities within or immediately adjacent to the
6 Railroad right of way is completed, the Contractor may make a written request to the
7 Engineer to be relieved of the responsibility to continue the insurance required by BNSF.
8 If the Engineer deems the portion of the work in that area is complete, the Engineer may
9 approve the Contractor's request. However, if for any reason the Contractor resumes or
10 starts any new work in that area (including being ordered to do so by the Engineer), the
11 insurance shall be reinstated by the Contractor before the work is started. If the
12 insurance must be reinstated because of the Contractor's activities or failure of the
13 Contractor to perform all the contract requirements, the costs shall be the responsibility
14 of the Contractor. If the insurance must be reinstated because of changes to the
15 contract, the costs will be considered in accordance with Section 1-04.4.
16

17 **Public Convenience and Safety**

18
19 ***Construction Under Traffic***

20
21 Section 1-07.23(1) is supplemented with the following:
22

23 *(January 2, 2012 WSDOT GSP)*
24 The Work Zone Clear Zone (WZCZ) applies during working and nonworking
25 hours. The WZCZ applies only to temporary roadside objects introduced by the
26 Contractor's operations and does not apply to preexisting conditions or
27 permanent Work. Those work operations that are actively in progress shall be
28 in accordance with adopted and approved Traffic Control Plans, and other
29 contract requirements.
30

31 During nonworking hours equipment or materials shall not be within the WZCZ
32 unless they are protected by permanent guardrail or temporary concrete
33 barrier. The use of temporary concrete barrier shall be permitted only if the
34 Engineer approves the installation and location.
35

36 During actual hours of work, unless protected as described above, only
37 materials absolutely necessary to construction shall be within the WZCZ and
38 only construction vehicles absolutely necessary to construction shall be
39 allowed within the WZCZ or allowed to stop or park on the shoulder of the
40 roadway.
41

42 The Contractor's nonessential vehicles and employees private vehicles shall
43 not be permitted to park within the WZCZ at any time unless protected as
44 described above.
45

46 Deviation from the above requirements shall not occur unless the Contractor
47 has requested the deviation in writing and the Engineer has provided written
48 approval.
49

50 Minimum WZCZ distances are measured from the edge of traveled way and
51 will be determined as follows:
52

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

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Minimum Work Zone Clear Zone Distance

1-07.24 Rights of Way

(October 1, 2005 APWA GSP)

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

Street right of way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor’s construction activities shall be confined within these limits, unless arrangements for use of private property are made.

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

Whenever any of the work is accomplished on or through property other than public right of way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

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

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

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of

1 each property disturbed or otherwise interfered with by reasons of construction pursued
2 under this contract. The statement shall be signed by the private property owner, or
3 proper authority acting for the owner of the private property affected, stating that
4 permission has been granted to use the property and all necessary permits have been
5 obtained or, in the case of a release, that the restoration of the property has been
6 satisfactorily accomplished. The statement shall include the parcel number, address,
7 and date of signature. Written releases must be filed with the Engineer before the
8 Completion Date will be established.
9
10

11 **1-08 PROSECUTION AND PROGRESS**

12
13 Add the following new section:

14 **1-08.0 Preliminary Matters**

15
16 Add the following new section:

17
18 (March 28, 2012 COA GSP)

19 **Preconstruction Conference**

20
21 Prior to the Notice to Proceed, a preconstruction conference will be held between the
22 Contractor, the City, and such other interested parties as may be invited. The purpose of the
23 preconstruction conference will be:

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

32
33 Unless otherwise approved by the City, the Contractor shall prepare and submit at the
34 preconstruction conference the following:

- 35 1. Schedule of work
- 36 2. Schedule of Values for Lump Sum bid items
- 37 3. Material submittals, unless submitted prior to meeting
- 38 4. All other submittals required by the Contract Documents

39
40 Add the following new section:

41
42 (March 28, 2012 COA GSP)

43 **Hours of Work**

44
45 Except in the case of emergency or unless otherwise approved by the City, per AMC
46 11.01.120, the normal hours for construction and development activity, or operation of any
47 heavy equipment shall be between 7:00 am and 7:00 pm, Monday through Friday.
48 Construction activities may occur on Saturday between the 7:00 am and 7:00 pm as long as
49 inspections are not required for work being performed on that day. Saturday inspections can

1 be requested by the Contractor, however, approval depends on City staff availability and
2 conditions stated below.

3
4 No construction is allowed on Sunday or the following City recognized holidays.

5
6 New Years Day
7 Presidents Day
8 Independence Day
9 Veterans Day
10 Martin Luther King birthday recognition
11 Memorial Day
12 Labor Day
13 Thanksgiving and the Friday after
14 Christmas Day
15

16 If a Contractor desires to perform work on holidays, Sundays, or outside of hours stated
17 above, the Contractor shall apply in writing to the Engineer for permission to work such
18 times. Permission to work Saturdays, Sundays, holidays or other than the agreed upon
19 normal straight time working hours Monday through Friday may be given subject to certain
20 other conditions set forth by the Contracting Agency or Engineer. These conditions may
21 require the Contractor to reimburse the Contracting Agency for the costs in excess of
22 straight-time costs for Contracting Agency employees who worked during such times.

23
24 Approval to continue work during non standard hours may be revoked at any time the
25 Contractor exceeds the Contracting Agency's noise control regulations or complaints are
26 received from the public or adjoining property owners regarding the noise from the
27 Contractor's operations. The Contractor shall have no claim for damages or delays should
28 such permission be revoked for these reasons.

29
30 Add the following new section:

31
32 (*****)

33 **Coordination with Community Events**

34 No roadway closures or weekend work shall be allowed on the following dates:

35
36 May 18, 2012 – Eagle Wing Ministries
37 June 17, 2012 – BC Cancer Ride
38 July 7-15, 2012 – Arlington Fly-In
39 August 4, 2012 – Rivers and Rails
40 August 17-18 – RSVP – Seattle to Vancouver.

41 42 **Subcontracting**

43
44 Section 1-08.1 is supplemented with the following:

45
46 *(October 12, 1998 WSDOT GSP)*

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

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

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

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

1-08.3(2)B Type B Progress Schedule

(March 13, 2012 APWA GSP)

Revise the first paragraph to read:

The Contractor shall submit a preliminary Type B Progress Schedule at or prior to the preconstruction conference. The preliminary Type B Progress Schedule shall comply with all of these requirements and the requirements of Section 1-08.3(1), except that it may be limited to only those activities occurring within the first 60-working days of the project.

Revise the first sentence of the second paragraph to read:

The Contractor shall submit 5 copies of a Type B Progress Schedule depicting the entire project no later than 21-calendar days after the preconstruction conference.

Add the following paragraph:

(*****)

A minimum bid of \$10,000 lump sum has been established for the item "Type B Progress Schedule." The Contractor's bid shall equal or exceed that amount. If the Contractor's bid is less than the minimum specified amount, the Contracting Agency will unilaterally revise the bid amount to the minimum specified amount and recalculate the Contractor's total bid amount. The corrected total bid amount will be used by the Contracting Agency for award purposes and to fix the amount of the contract bond.

Prosecution of Work

(January 22, 2011 COA GSP)

Delete first sentence of first paragraph of Section 1-08.4.

Section 1-08.5 is supplemented with the following:

(March 29, 2012 COA GSP)

Replace the third and fourth paragraph of Section 1-08.5 with the following:

1
2 Contract time shall begin on the first working day following the 14th calendar day after the
3 date the Contracting Agency executes the Contract. Construction work shall not begin until
4 Notice to Proceed is issued by the City and all appropriate submittals have been reviewed
5 and approved by the City. Mobilization may occur prior to Notice to Proceed, pending
6 approval by the Engineer.
7

8 Each working day shall be charged to the contract as it occurs, until the contract work is
9 physically complete. If substantial completion has been granted and all the authorized
10 working days have been used, charging of working days will cease. Each week the
11 Engineer will provide the Contractor a statement that shows the number of working days: (1)
12 charged to the contract the week before; (2) specified for the physical completion of the
13 contract; and (3) remaining for the physical completion of the contract. The statement will
14 also show the nonworking days and any partial or whole day the Engineer declares as
15 unworkable. Within 10 calendar days after the date of each statement, the Contractor shall
16 file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the
17 protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount
18 of time disputed. By not filing such detailed protest in that period, the Contractor shall be
19 deemed as having accepted the statement as correct. If the Contractor elects to work 10
20 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-
21 10 shift is worked would ordinarily be charged as a working day then the fifth day of that
22 week will be charged as a working day whether or not the Contractor works on that day.
23

24 Replace the sixth paragraph of Section 1-08.5 with the following:
25

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

- 30 1. The physical work on the project must be complete; and
31 2. The Contractor must furnish all documentation required by the contract and required
32 by law, to allow the Contracting Agency to process final acceptance of the contract.
33 The following documents must be received by the Project Engineer prior to
34 establishing a completion date:
35 a. Certified Payrolls (Federal-aid Projects)
36 b. Material Acceptance Certification Documents
37 c. Annual Report of Amounts Paid as MBE/WBE Participants or Quarterly Report of
38 Amounts Credited as DBE Participation, as required by the Contract Provisions.
39 d. Final Contract Voucher Certification
40 e. Property owner releases per Section 1-07.24
41

42 Section 1-08.5 is supplemented with the following:
43

44 (March 13, 1995)
45 This project shall be physically completed within 250 working days.
46

47 **Extensions of Time**

48

49 Item number 1 in Section 1-08.8 is supplemented with the following:
50

51 (January 20, 2012 COA GSP)

1 The NOAA weather gauge located at the City of Arlington Wastewater Treatment Plant shall
2 be the official rain gauge used to determine level of rainfall within the project area.

3
4 **Liquidated Damages**

5
6 (April 6, 2009 WSDOT GSP)

7 Delayed completion of “Fish Passage Culvert Prairie Creek”, “Fish Passage Culvert
8 Portage Creek 67th”, and “Fish Passage Culvert Portage Creek 69th” will result in
9 impacts to the traveling public, increase fuel consumption, increase vehicle operating
10 costs, increase pollution, and cause other inconveniences and harm.

11
12 Accordingly, the Contractor agrees:

- 13
14 1. To pay \$10,000 liquidated damages per day for each calendar day prorated to
15 the nearest day that the work is not completed as specified in Section 1-10.2(2)
16 **Fish Passage Culvert Construction Road Closure and Detour.**
17
18 2. To authorize the Engineer to deduct these liquidated damages from any money
19 due or coming due the Contractor.
20

21 **Termination of Contract**

22
23 ***Termination for Default***

24 In Section 1-08.10(1), replace last sentence of fourth to last paragraph with the
25 following:

26
27 (February 17, 2011 COA GSP)

28 If total expenses and damages exceed the unpaid balance, the Contractor and the
29 Surety shall be jointly and severally liable to the Contracting Agency and shall pay the
30 difference to the Contracting Agency on demand.

31
32 (*****)
33 Add the following new section:

34
35 **1-08.11 Project Management On-Line System**

36
37 **1-08.11(1) General Requirements**

38 Contractor shall utilize the on-line Project Management System (SharePoint) for Submittals,
39 RFIs, and some document distribution. (Design change documents and other pertinent
40 information as determined by the Construction Manager or Owner will be posted to
41 SharePoint for distribution.)

42
43 The Contractor shall attend one training session (estimated 2–3 hours) for staff involved in
44 document control. Training to be provided by the Construction Manager. Any additional
45 training needed shall be at Contractor's expense. The Contractor shall provide all pertinent
46 telephone numbers, and email addresses, to the Construction Manager as soon as those
47 numbers become available.

48
49 All submittals and RFIs must be submitted electronically using SharePoint, including hand
50 drawn sketches and catalog cuts. The only exceptions are if file size (>5 MB) or
51 document/sample packaging is such that an electronic copy is not feasible. Each party to

1 the Contractor will be responsible for scanning (in color when appropriate and appropriately
2 sized) documents for submission to SharePoint .
3
4 If electronic submission of submittals through SharePoint is not possible per the guidelines
5 above, and for all other communications, such as change proposals, invoices, general
6 correspondence, etc. – submit 3 hard copies, fax, and/or e-mail per the procedures detailed
7 in the Contract Documents and at the Preconstruction Conference.
8

9 **1-08.11 (2) Equipment Requirements**

10 The Contractor shall have on-line capabilities installed for connection to, and utilization of,
11 SharePoint. The Construction Manager's scanner/copier will not be available to the
12 Contractor.
13

14 System Requirements: CD/RW Drive, 10/100 NIC card, MS Office (XP or 2007), Internet
15 Explorer 7, Internet Service Provider, high speed internet connection, Adobe Acrobat Reader
16 7.0 or higher, and color scanner.
17

18 **1-08.11 (3) Payment**

19 There will be no charge to access the on-line Project Management System. Costs for
20 training of, use of, and meeting system requirements for the project management on-line
21 system shall be included in associated items of work.
22

23 **MEASUREMENT AND PAYMENT**

24
25 **1-09.6 Force Account**

26 *(October 10, 2008 APWA GSP)*
27

28 Supplement this section with the following:
29

30 The Contracting Agency has estimated and included in the Proposal, dollar amounts for
31 all items to be paid per force account, only to provide a common proposal for Bidders.
32 All such dollar amounts are to become a part of Contractor's total bid. However, the
33 Contracting Agency does not warrant expressly or by implication, that the actual amount
34 of work will correspond with those estimates. Payment will be made on the basis of the
35 amount of work actually authorized by Engineer.
36

37 **Payment For Material On Hand**

38
39 The last paragraph of Section 1-09.8 is revised to read:
40

41 *(August 3, 2009 WSDOT GSP)*

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

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1-09.9 Payments
(June 27, 2011 APWA GSP, Option B)

Delete the fourth paragraph and replace it with the following:

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

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

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

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

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

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

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

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

(June 27, 2011 WSDOT GSP)
Vacant

Time Limitation and Jurisdiction

Section 1-09.11(3) is supplemented with the following:

(May 26, 2011 COA GSP)

Any claim against the City for damages, expenses, costs or extras arising out of the performance of the contract must be made in writing to the City within thirty (30)

1 calendar days after the discovery of such damage, and in no event later than the time of
2 approval by owner of final payment. Contractor, upon making applications for final
3 payment, shall be deemed to have waived this right to claim for any other damages for
4 which claim has not been made, unless such claim for final payment includes notice of
5 additional claim and fully describes the alleged damage.

6 **1-09.13(3) Claims \$250,000 or Less**

7 *(October 1, 2005 APWA GSP)*

8

9 Delete this Section and replace it with the following:

10

11 The Contractor and the Contracting Agency mutually agree that those claims that total
12 \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by
13 nonbinding ADR processes, shall be resolved through litigation unless the parties
14 mutually agree in writing to resolve the claim through binding arbitration.

15

16 **1-09.13(3)A Administration of Arbitration**

17 *(October 1, 2005 APWA GSP)*

18

19 Revise the third paragraph to read:

20

21 The Contracting Agency and the Contractor mutually agree to be bound by the decision
22 of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered
23 in the Superior Court of the county in which the Contracting Agency's headquarters are
24 located. The decision of the arbitrator and the specific basis for the decision shall be in
25 writing. The arbitrator shall use the contract as a basis for decisions.

26

27 **TEMPORARY TRAFFIC CONTROL**

28

29 ***General***

30

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

32

33 *(December 1, 2008 WSDOT GSP)*

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

37

38 The Northwest Laborers-Employers Training Trust
39 27055 Ohio Ave.
40 Kingston, WA 98346
41 (360) 297-3035

42

43 Evergreen Safety Council
44 401 Pontius Ave. N.
45 Seattle, WA 98109
46 1-800-521-0778 or
47 (206) 382-4090

48

49 The American Traffic Safety Services Association
50 15 Riverside Parkway, Suite 100
51 Fredericksburg, Virginia 22406-1022
52 Training Dept. Toll Free (877) 642-4637

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Phone: (540) 368-1701

Traffic Control Management

Traffic Control Plans

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

(*****)

The Plans provide a method for performing traffic control. Any revisions to this plan must be submitted by the Contractor to the Engineer for approval.

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

(*****)

Two-Way Traffic

Two way traffic must be maintained at all times, with the exception of the fish passage culvert construction road closure and detour as described in this section.

(*****)

Fish Passage Culvert Construction Road Closure and Detour

The fish passage culverts on 67th Ave NE for Prairie Creek and Portage Creek will be constructed on two separate three day weekend road closures. 67th Ave NE may be closed from 7:00 PM Friday to 5:00 AM Tuesday. During the closure, an approved detour must be in place.

21 calendar days prior to any road closure, the Contractor shall submit a Detour Plan for approval by the Engineer. The Detour Plan must indicate the detour route and all signing to be provided. No separate payment will be made for the Detour Plan and cost shall be included in other bid items.

See Section 1-08 for further restrictions on road closure.

Measurement

Lump Sum Bid for Project (No Unit Items)

Section 1-10.4(2) is supplemented with the following:

(August 2, 2004 WSDOT GSP)

The bid proposal does not contain the item "Project Temporary Traffic Control," lump sum. The provisions of Section 1-10.4(2) shall apply.

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**DIVISION 2
EARTHWORK**

CLEARING, GRUBBING, AND ROADSIDE CLEANUP

Construction Requirements

Roadside Cleanup

Section 2-01.3(4) is supplemented with the following:

(January 5, 1998 WSDOT GSP)
Landscape restoration as directed by the Engineer

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Description

Section 2-02.1 is supplemented with the following:

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

Construction Requirements

Section 2-02.3 is supplemented with the following:

(February 17, 1998 WSDOT GSP)

Removal of Obstructions

- Prairie Creek Culvert
- Portage Creek Culvert
- Sanitary Sewer Manhole
- Water Main Pipe
- Water Service
- Fire Hydrant Assembly
- Hydrant Valve
- Fence
- Ecology Block
- Pavement
- Storm Drain Pipe
- Storm Drain Catch Basins
- Storm Drain Manholes
- Sanitary Sewer Pipe
- Sanitary Sewer Manholes

(March 13, 1995 WSDOT GSP)

Removing Miscellaneous Traffic Items

The following miscellaneous traffic items shall be removed and disposed of:

- Curb and Gutter
- Asphalt Extruded Curb

1 (April 18, 2011 COA GSP)

2 **Removal of Miscellaneous Traffic Items**

3

4 Miscellaneous traffic items within the project limits shall be removed with pavement
5 preparation, including but not limited to existing raised pavement markers (RPM) and
6 thermoplastic pavement markings. Miscellaneous traffic items shall be removed from
7 the traveled roadway immediately upon removal. The Contractor shall be responsible
8 for loose RPM causing damage to vehicles, including but not limited to cracked
9 windshields and flat tires.

10

11 (January 20, 2011 COA GSP)

12 **Sawcutting of Existing Pavement**

13

14 At the edge of pavement or curb to be removed, the Contractor shall make a vertical
15 sawcut through the entire thickness of the existing pavement, prior to pavement
16 removal.

17

18 (May 11, 2011 COA GSP)

19 **Asbestos Handling and Disposal**

20

21 Prior to performance of any contract work, the Contractor shall obtain all permits from,
22 and provide notification to, the Washington State Department of Labor and Industries,
23 the U.S. EPA, the local air pollution control agency, and other permitting and regulatory
24 agencies with jurisdiction over the work involving asbestos as the law requires.

25

26 Prior to commencing asbestos related work, the Contractor shall provide the Engineer
27 with written verification of approvals and notifications that have been given and I or
28 obtained from the required jurisdictional agencies, and the Contractor's schedule for all
29 work involving asbestos removal. The schedule shall include the sequencing and
30 scheduling of asbestos related work, and coordination with subcontractors. The
31 Contractor shall notify the Engineer when all approvals have been received and
32 notifications have been made, as required by the agencies involved.

33

34 The Contractor shall ensure the safety of all workers, visitors to the site, and the general
35 public in accordance with all applicable laws, rules, and regulations.

36

37 The Contractor shall designate a Washington State Certified Asbestos Supervisor (CAS)
38 to personally supervise the asbestos removal and to ensure that the handling and
39 removal of the asbestos is accomplished by certified asbestos workers, pursuant to
40 Washington State Department of Labor and Industries standards. The Contractor shall
41 ensure that the removal and disposal of asbestos meets the requirements of EPA
42 regulation 40 CFR Part 61, local health department regulations, and all other applicable
43 regulations. The Contractor shall provide asbestos worker certifications for each worker
44 working with the asbestos cement watermain and other asbestos materials encountered
45 in the work. All workers involved with the asbestos cement watermain are required to
46 have current certification.

47

48 In accordance with WAC 173-400-075, the Contractor shall notify and obtain the
49 necessary permits for asbestos removal from the local air pollution control authority.
50 Handling and removal of asbestos shall be accomplished by certified workers only as
51 required by WAC 296-65-030. Disposal of asbestos shall meet the requirements of EPA

1 regulation 40 CFR Part 61, Sections 61-152 and 61-156 and local health department
2 regulations.

3
4 It is anticipated that the majority of the asbestos cement watermain will be abandoned
5 in-place and that small sections will be removed if necessary due to conflicts to install
6 new utilities. If abandoned in-place, the existing AC piping shall be disassembled
7 without saw cutting and left in the trench. If the AC pipe is sawcut or removed from the
8 trench, the Contractor shall be responsible for all fees, certifications and permits and
9 work shall be performed in accordance with the requirements of the various agencies.
10 The Contractor is advised that the existing asbestos cement (AC) water main and
11 service connections are fragile in nature. The Contractor shall, therefore, sequence
12 his/her activities in such a manner as to avoid damage to the AC water main and
13 service connections.

14

15 **Relocating Sign**

16

17 Where shown in the plans, the Contractor shall relocate the sign at the Pioneer
18 Museum. The sign shall be relocated to a location directed by the Engineer.

19

20 Prior to relocating the sign, the Contractor shall submit to the Engineer a relocation plan
21 for Engineer approval. The relocation plan shall include the method for removing the
22 sign from its current location, means and methods for moving the sign, and means and
23 methods for installing the sign in the new location. The plan shall include all equipment
24 to be used and methods to ensure no damage occurs to the sign.

25

26 Any damage to the sign shall be repaired at Contractor expense to the satisfaction of
27 the Engineer.

28

29 **Measurement**

30

31 Section 2-02.4 is supplemented with the following:

32

33 (June 25, 2010 COA GSP)

34 "Sawcutting Existing Pavement", per linear foot

35 Sawcutting existing pavement will be measured by the linear foot along the pavement
36 being cut.

37

38 (*****)

39 Asbestos handling and disposal shall be measured and paid for as part of Ductile Iron
40 WM _____ In." in accordance with Section 7-09.4.

41

42 "Relocating Sign", per lump sum

43

44 **Payment**

45

46 Section 2-02.5 is supplemented with the following:

47

48 (June 25, 2010 COA GSP)

49 "Sawcutting Existing Pavement", per linear foot

50 The unit contract price per linear foot for "Sawcutting Existing Pavement" shall be full
51 pay for all labor, tools, equipment, and materials necessary to complete the work as
52 specified.

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“Relocating Sign”, per lump sum

The lump sum contract price for “Relocating Sign” shall be full pay for all labor, tools, equipment and materials necessary to relocation the structures, including preparation of the relocation plan, removing the structures from their current location, moving the structures, construction the foundation per the contractor submitted plan, and permanently locating the structures in their new location.

ROADWAY EXCAVATION AND EMBANKMENT

Widening of Cuts

Section 2-03.1 shall be supplemented with the following:

(NWR January 3, 2006)

This work shall also consist of excavating and grading for the construction of mitigation sites, including hauling and disposing of all unwanted excavated material from within the project limits.

Existing Concrete Panels

The roadways with the project limits contain portland cement concrete panels beneath the asphalt concrete surfacing. The unit price for “Roadway Excavation” shall include removal of the portland cement concrete panels, and no separate payment will be made.

Excavation Below Subgrade

Section 2-03.3 is supplemented with the following:

(NWR July 27, 2009)

Mitigation Excavation Including Haul

The Contractor shall use the survey control points indicated in the Plans. Prior to beginning work, the Contractor shall verify that the elevations of control points match those shown in the Plans. If elevations differ from the Plans, the Contractor shall immediately notify the Engineer to provide clarification.

Wetland and stream channel excavation includes excavating existing soils to finish grades and subgrades. Elevations shown in the Plans represent finish grades after placement of topsoil and streambed gravels, and prior to placement of soil amendment, compost, mulch, or other materials.

1. For areas without topsoil or streambed gravel specified: Excavate to the elevations shown in the Plans.
2. For areas with topsoil or streambed gravel specified: Over-excavate to subgrades to accommodate the depth of depth of topsoil or streambed gravels as shown in the Plans.

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Timing of Excavation

The work will bring the ground elevation within close proximity to the water table. The Contractor is advised that excavation conditions will vary based upon seasonal water table elevations and weather conditions. Excavation of the ***Prairie Creek and Portage Creek*** sites for this project shall be performed between ***July 1*** and ***September 30***. The groundwater data for the site is available in the geotechnical report in the appendix.

Schedule

The Contractor shall include the proposed schedule for all work on the mitigation site in the progress schedule prepared in accordance with the requirements of Section 1-08.3.

The schedule shall indicate:

1. Herbicide applications prior to clearing and grubbing, if indicated in the contract.
2. The proposed start and finish times for mitigation excavation and grading activities.
3. The proposed times for two inspections by the Agency's Interdisciplinary Team.

Interdisciplinary Team (IDT)

The Interdisciplinary Team will include, but is not limited to:

- Project Engineer
- Project Biologist

Grading and Timing

1. The Contractor shall request that the Engineer schedule the interdisciplinary team inspections. The Contractor shall allow three working days from the initial notification to the Engineer for the completion of the inspections.
2. Survey data shall be provided by the Contractor for review at the time of the inspections. Adjustments to the grades may be required to ensure successful mitigation. Grading tolerance shall be within ± 0.10 foot of the grades shown in the Plans or as adjusted as a result of a prior inspection.
3. Inspection timing:
 - a. The first inspection shall occur when approximately one-third of the area of the site is graded to the elevations shown in the Plans. Grading tolerance shall be within ± 0.25 foot of the grades shown in the Plans at the time of the first inspection. If general elevations need to be raised or lowered as compared to the Plans, the Engineer may request adjustments to the grades shown in the Plans and the continued removal of soil shall be completed.
 - b. Following the first inspection, the Contractor shall grade the site to the contours and spot elevations as shown in the Plans and the agreed upon adjustments. Grading tolerance shall be within ± 0.10 foot of the grades

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shown in the Plans or as adjusted as a result of a prior inspection. c. The second inspection shall be scheduled to occur when the Contractor has completed approximately 90% of the excavation and grading on the entire site as adjusted from the first inspection, and before equipment has been removed from the site.

- 4. Approval:
 - a. Once approved, the Contractor shall complete the remaining 10% of the grading. All excess material shall be removed from the site.
 - b. If modifications to grades are required, and the final 10% of material is needed to adjust grades within the site, this will constitute additional grading and finish work beyond that shown in the Plans, and shall be accomplished under the force account bid item. "Landscape Grading".
 - c. Additional inspections and additional adjustments may be required prior to acceptance of the work.
 - d. All excess material shall become the property of the Contractor and shall be disposed of off the project site in accordance with Section 2-03.3(7)C.

(NWR January 3, 2011)
Mitigation Pre-Construction Meeting

The mitigation pre-construction meeting shall include a site review with the Engineer and the Contracting Agency's inter-disciplinary team. The multi-disciplinary team will include, at a minimum, the Contracting Agency's biologist, landscape architect, and environmental permit coordinator.

A minimum of 10 calendar days prior to the start of any mitigation work, the Contractor shall request the pre-construction meeting and site review and shall include the meeting dates in the required progress schedule, and as specified in Section 1-08.

This requirement applies to the following mitigation site(s):

- *** Portage Creek Wetland Enhancement ***
- *** Prairie Creek Fish Passage ***

Contractor-Provided Disposal Site

Section 2-03.3(7)C, shall be supplemented with the following:

(July 12, 2011 COA GSP)

A waste site has not been provided by the City for the disposal and/or storage of surplus materials and debris.

- 1. It shall be the responsibility of each bidder to thoroughly plan for material disposal at the time of project planning and bid preparation.
- 2. The Contractor shall provide the City with copies of all permits for disposal and/or storage of surplus materials within 14 calendar days after award of the contract. The Engineer will review the permit(s) and waste site(s) and

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either allow the use of or reject the disposal and/or storage sites(s) within 7 calendar days after receipt of the permits. The Contractor is responsible for obtaining permits from the appropriate agency.

The Engineer will use the following criteria to evaluate disposal and/or storage sites(s) located within the City of Arlington:

- a) WAC 173-304 Minimum Functional Standards for Solid Waste Handling, in accordance with applicable sections 400 through 462.
- b) Applicable sections of the Snohomish Health District Sanitary Code Chapter 3.1 - Regulations Governing Solid Waste Handling.
- c) Applicable sections of the City of Arlington Comprehensive Plan Policies.
- d) Applicable regulations of Snohomish County Solid Waste.
- e) Disposal of excess fill material within a wetland area will not be allowed without a Section 404 permit issued by the U.S. Corps of Engineers and approved by the local agency with jurisdiction over the wetlands.

A reconnaissance of each submitted facility will be conducted by the City of Arlington. During this visit, the operating procedures and general conditions of the site will be reviewed for compliance with the conditions of the disposal and/or storage site permit and with the applicable City codes and State WACs. If violations of the disposal and/or storage site permit, applicable codes and/or WACs are noted during this reconnaissance, the site will be rejected from further consideration.

In addition, the status of each City grading permit will be checked. Flagged sites, invalid or expired permits will be rejected from further consideration.

If disposal and/or storage site(s) are located outside of the City of Arlington, applicable local policies and ordinances will apply.

- 3. Following is a typical listing of contract items that are impacted by this specification:
 - a. Roadway and general excavation spoils
 - b. Planing bituminous pavement
 - c. Organic debris

The items listed above are for informational purposes only and may not cover all surplus disposal items.

- 4. The Contractor shall provide to the City a letter certifying the type of material disposed and/or stored at each site, the location of each disposal and/or storage site and the method of disposal and/or reuse of each type of material as a condition to receiving the final contract payment.

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Section 2-03.4 shall be supplemented with the following:

(*****)

Mitigation excavation including haul will be measured by the cubic yard. Material will be measured in its original position by cross-sectioning. Pay quantities will be computed to the neat lines of the cross-sections staked. Mitigation excavation will include excavation for the Portage Creek Wetland Enhancement, Prairie Creek Fish Passage, and Prairie Creek Realignment.

Contractor-Provided Disposal Site

Section 2-03.3(7)C, shall be supplemented with the following:

(July 12, 2011 COA GSP)

A waste site has not been provided by the City for the disposal and/or storage of surplus materials and debris.

1. It shall be the responsibility of each bidder to thoroughly plan for material disposal at the time of project planning and bid preparation.
2. The Contractor shall provide the City with copies of all permits for disposal and/or storage of surplus materials within 14 calendar days after award of the contract. The Engineer will review the permit(s) and waste site(s) and either allow the use of or reject the disposal and/or storage sites(s) within 7 calendar days after receipt of the permits. The Contractor is responsible for obtaining permits from the appropriate agency.

The Engineer will use the following criteria to evaluate disposal and/or storage sites(s) located within the City of Arlington:

- f) WAC 173-304 Minimum Functional Standards for Solid Waste Handling, in accordance with applicable sections 400 through 462.
- g) Applicable sections of the Snohomish Health District Sanitary Code Chapter 3.1 - Regulations Governing Solid Waste Handling.
- h) Applicable sections of the City of Arlington Comprehensive Plan Policies.
- i) Applicable regulations of Snohomish County Solid Waste.
- j) Disposal of excess fill material within a wetland area will not be allowed without a Section 404 permit issued by the U.S. Corps of Engineers and approved by the local agency with jurisdiction over the wetlands.

A reconnaissance of each submitted facility will be conducted by the City of Arlington. During this visit, the operating procedures and general conditions of the site will be reviewed for compliance with the conditions of the disposal and/or storage site permit and with the applicable City codes and State WACs. If violations of the disposal and/or storage site permit,

- 1 applicable codes and/or WACs are noted during this reconnaissance, the
2 site will be rejected from further consideration.
3
4 In addition, the status of each City grading permit will be checked. Flagged
5 sites, invalid or expired permits will be rejected from further consideration.
6
7 If disposal and/or storage site(s) are located outside of the City of
8 Arlington, applicable local policies and ordinances will apply.
9
10 3. Following is a typical listing of contract items that are impacted by this
11 specification:
12 a. Roadway and general excavation spoils
13 b. Planing bituminous pavement
14 c. Organic debris
15
16 The items listed above are for informational purposes only and may not
17 cover all surplus disposal items.
18
19 4. The Contractor shall provide to the City a letter certifying the type of material
20 disposed and/or stored at each site, the location of each disposal and/or
21 storage site and the method of disposal and/or reuse of each type of
22 material as a condition to receiving the final contract payment.
23
24

25 **Measurement**

26
27 Section 2-03.4 is supplemented with the following:

28
29 *(March 13, 1995 WSDOT GSP)*

30 Only one determination of the original ground elevation will be made on this project.
31 Measurement for roadway excavation and embankment will be based on the original
32 ground elevations recorded previous to the award of this contract.
33

34 If discrepancies are discovered in the ground elevations which will materially affect the
35 quantities of earthwork, the original computations of earthwork quantities will be
36 adjusted accordingly.
37

38 Earthwork quantities will be computed, either manually or by means of electronic data
39 processing equipment, by use of the average end area method or by the finite element
40 analysis method utilizing digital terrain modeling techniques.
41

42 Copies of the ground cross-section notes will be available for the bidder's inspection,
43 before the opening of bids, at the Project Engineer's office and at the Region office.
44

45 Upon award of the contract, copies of the original ground cross-sections will be
46 furnished to the successful bidder on request to the Project Engineer.
47

48 Section 2-03.4 shall be supplemented with the following:

49
50 *(*****)*

51 Mitigation excavation including haul will be measured by the cubic yard. Material will be
52 measured in its original position by cross-sectioning. Pay quantities will be computed to

1 the neat lines of the cross-sections staked. Mitigation excavation will include excavation
2 for the Portage Creek Wetland Enhancement, Prairie Creek Fish Passage, and Prairie
3 Creek Realignment.
4

5

6 **Payment**

7

8 Section 2-03.5 shall be supplemented with the following:

9 *(NWR August 7, 2006)*

10 "Mitigation Excavation Incl. Haul", per cubic yard.

11

12 The unit contract price per cubic yard for "Mitigation Excavation Incl. Haul" shall be full
13 payment for all excavation and grading shown in the Plans that is required for
14 construction of the mitigation sites, including all slope rounding, loading, hauling, and
15 disposal of excess material.
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**DIVISION 4
BASES**

ASPHALT TREATED BASE

Materials

Section 4-06.2 is supplemented with the following:

(October 25, 1999 WSDOT GSP)

The grade of paving asphalt used in asphalt treated base shall be PG 64-22 unless otherwise ordered by the Engineer.

DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS

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Section 5-04 is supplemented with the following:

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POROUS ASPHALT TRAIL

Description:

Include all labor, material, transportation and services to complete installation of the permeable aggregate base and the porous asphalt paving as shown on the drawings for the trail.

- 1. Final sub-grade establishment
- 2. Structural soil-bearing fabric
- 3. Base course permeable aggregate
- 4. Porous asphalt paving

Standard Specifications:

- A. Design Procedure and General Specifications, Asphalt Paving, Asphalt Association of Washington, Inc., (APAAW);
- B. American Public Works Association, Washington State Chapter, Standard Specifications for Municipal Public Works Construction, (APWA), 2010 edition
- C. American Standard Testing Materials, (ASTM);
- D. American Association of State Highway and Transportation Officials,(AASHTO).

Submittals:

Submit to the Engineer for approval:

- 1. Base course permeable aggregate sieve analysis.
- 2. Base course permeable aggregate infiltration rate.
- 3. Equipment and procedures to be utilized for the permeable aggregate installation.
- 4. Porous asphalt aggregate sieve analysis.
- 5. Porous asphalt composition.
- 6. Previous experience of the proposed porous asphalt installer with porous asphalt placement.

Materials

Base Course Permeable CSBCe:

- A. The base course permeable aggregate shall be installed below the porous asphalt paving or the top course permeable aggregate as applicable.
 - B. Aggregates to be open-graded, fractured, friction course. To ensure free drainage, material to be clean with minimal fines. The compacted top course permeable aggregate minimum infiltration rate of 40 inches per hour.
 - C. Base course material to be a minimum of 75% fractured with at least one fractured face by mechanical means on each individual particle larger than 15 1/4". A sand and gravel source is acceptable for this material.
- Gradation: Aggregate to meet the following particle size limitations.

Sieve Size	Percent Passing By Weight
1- 1/4"	100
1"	90-100
3/4"	80-100

1	1/2"	50-80
2	3/8"	40-60
3	No. 4	20-40
4	No. 8	15-30
5	No. 30	10-20
6	No. 100	2-10
7	No. 200 (Wet Sieve)	0-3.0
8	No. 270 (Wet Sieve)	0-1.5

9 Porous Asphalt Paving:

- 10
- 11 A. This mix is intended to have an acceptable balance between adequate and
- 12 uniform permeability and strength.
- 13 B. The amount of liquid asphalt used in the formulation must be precisely controlled
- 14 to obtain the desired strength while not adversely affecting the permeability.

15

16 A. Aggregate:

- 17 1. Material to be clean, open graded, fractured.
- 18 2. Aggregate to be a minimum of 75% fractured with at least one fractured
- 19 face by mechanical means of each individual particle larger than 1/4".
- 20 3. Gradation: Aggregate to meet the following particle size limitations:

21	Sieve Size	Percent Passing By Weight
22	5/8"	100
23	1/2"	90-100
24	3/8"	70-90
25	No. 4	20-40
26	No. 8	10-20
27	No. 40	0-8
28	No. 200	0-3

29

30 B. Asphalt Cement:

- 31 1. Cement shall be Pg5822 per DOT AASHOTO MP1.
- 32 2. Mix shall be between 4.0% and 4.5% asphalt by weight based on weight of
- 33 total mix.
- 34 3. Liquid asphalt shall have a liquid anti-stripping agent additive at a
- 35 concentration of 0.3% (Chevron Pave Bond Special), or equal.

36

37 Testing:

- 38
- 39 A. The Contractor shall provide testing and surveillance as required to assure
- 40 materials and work fully comply with contractor requirements.

41

42 **Construction Requirements**

43

44 Sub-grade establishment:

- 45
- 46 A. No work shall be performed in this section until sub-grade is 100% completed and
- 47 accepted by the Engineer.
- 48 B. Sub-grade shall be established to within the tolerance of +0.00' or -0.10' of the
- 49 design sub-grade elevation.

50

51 Construction Geotextile Installation:

52

- 1 A. No loose material is allowed on sub-grade prior to placement of structural fabric.
- 2 Loose material is to be removed prior to placement.
- 3 B. Fabric to be laid on smooth, compacted sub-grade surface between drainage
- 4 trenches.
- 5 C. The Engineer prior to placement of geotextile requires approval of sub-grade
- 6 conditions.
- 7 D. Geotextile must be flat on stabilized sub-grade for full width.
- 8 E. Dimensions to be a minimum width of 8' and minimum continuous length of 30 LF.
- 9 F. When the length of the fabric is not continuous, the lateral seam shall have a
- 10 minimum overlap of 24".
- 11 G. Fabric shall not be folded or turned up along the edges.
- 12 H. The fabric shall be field cut as necessary to meet specified tolerances of distance
- 13 from drainage trenches.
- 14 I. Fabric shall be placed between trenches. In no instance shall fabric cover trench,
- 15 lie against aggregate or pea gravel, or extend vertically above subgrade.
- 16 J. Stabilization: Immediately upon laying, the fabric is to be covered with base
- 17 aggregate. No loaded trucks are to be permitted to move over fabric covered
- 18 surfaces until a minimum of 4" of aggregate has been placed, except if specifically
- 19 approved by the Engineer, who will require strict, direct – 100% - control of all vehicle
- 20 movement on site.

21

22 Aggregate Placement:

23

- 24 A. Moisture Content: Aggregate to contain 3.5% to 4.0% moisture content to ensure
- 25 that fines do not migrate and to facilitate proper compaction. The Contractor must
- 26 ensure that aggregate leaving the source plant meets this requirement and is
- 27 required to apply water to aggregate on site to attain and maintain this minimum
- 28 moisture content in stockpile and during all placement operations.
- 29 B. Prior to aggregate placement, remove any excess or contaminated backfill from
- 30 the subsurface drainage trenches.
- 31 C. Surface must be free of standing water and sub-grade stabilized with structural
- 32 fabric in place prior to placement.
- 33 D. Materials to be placed in layers not exceeding 6" bulk and 4 ½" compacted in
- 34 depth. Each layer must be spread uniformly with equipment that will not cause
- 35 perceptible separation in gradation (segregation), preferably a self propelled paving
- 36 machine.
- 37 E. Should there occur, during any stage of the spreading or stockpiling, a separation
- 38 of the material particles, the Contractor must immediately remove and dispose of
- 39 segregated material and correct or change handling procedures to prevent further
- 40 separation.

41

42 Aggregate Compaction:

43

- 44 A. Each layer shall be compacted to a minimum density of not less than 95% of
- 45 maximum dry density as determined by ASTM D698 and measured using a nuclear
- 46 method.
- 47 B. Use Static Tandem Drum-type roller of not less than five tons weight.

48

49 Aggregate Tolerances:

50

- 51 A. The Contractor shall utilize a laser plane system for grade control.

- 1 B. The surface of the base course permeable aggregate in areas to be paved with
2 porous asphalt shall not deviate from designated compacted grade within the range
3 of -0.50" and 0.00".
4 C. Upon completion of fine grading, compaction, and Contractor confirmation of
5 conformance with the tolerances, the Contractor shall notify the Engineer and
6 schedule an inspection for approval. The Contractor shall have a laser plane system
7 available to the Engineer for the inspections. The Contractor shall not be authorized
8 to pave over the
9 permeable aggregate until it has been inspected and approved by the Engineer.

10
11 **Porous Asphalt Concrete Paving Installation:**

- 12
13 A. Pavement, where possible, shall be laid utilizing self-propelled paving machine of
14 8' minimum width and laser plane controlled.
15 B. Plant mix temperature of asphalt shall be a minimum of 260 degrees F.
16 C. The mix shall be transported to the job site in clean vehicles with smooth dump
17 beds that have been sprayed with a non-petroleum release agent. Limit the time of
18 haul to avoid segregation of the asphalt to the bottom of the truck bed. The mix
19 should be covered during transport to prevent cooling and the formation of lumps.
20 D. Asphalt shall be placed at a temperature between 230 degrees F. and 250
21 degrees F.
22 E. Vertical joints between successive days' work shall be given a light tack coat of
23 emulsified asphalt SS-1, diluted with one part water to one part emulsified asphalt.
24 F. Surface of the first lift shall be clean and dry before applying the second layer. No
25 tack coat need be applied on the horizontal surface of the first lift.
26 G. The surface elevation, in the compacted condition, shall not deviate more than 1/4"
27 from specified elevations. Trueness measurements to be taken from 10' long straight
28 edge placed in all directions.
29 H. Upon completion of the paving and Contractor confirmation of conformance with
30 the approval tolerances, the Contractor shall notify the Engineer and schedule an
31 inspection for approval. The Contractor shall have a laser plane system available to
32 the Engineer for the inspections. The contractor shall not be authorized to place any
33 surfacing over the pavement until the grade has been inspected and approved by the
34 Engineer.
35 I. The Contractor shall keep the porous asphalt free of contamination from site soil.
36 The Contractor shall take precautions as necessary such as washing truck tires, etc.

37
38 **Compaction of Porous Asphalt:**

- 39
40 A. Roller to be Tandem Drum-type, Static-type of five ton minimum size. Maximum
41 loading shall be 265 pounds weight per lineal inch of drum.
42 B. Compaction shall be commenced when the asphalt mix temperature is at a range
43 of 210 degrees F. to 230 degrees F.
44 C. The first lift shall be rolled to a minimum of one rolling over entire area.
45 D. The second lift (top leveling course) shall be rolled a minimum of two rollings. The
46 patterns of each successive rolling shall be at right angles or crossing diagonal
47 alignment.
48 E. Upper surface shall receive a final rolling utilizing a one-ton roller to remove all
49 roller marks and imperfections in the surface.

50
51 **Measurement**

52 "Porous Asphalt Trail" shall be measured by the square yard of installed porous asphalt trail.

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Payment

“Porous Asphalt Trail”, per square yard.

The unit contract price per square yard for “Porous Asphalt Trail” shall be full compensation for all costs for materials, labor, tools, and equipment necessary for the complete installation of the items of work, including but not limited to porous asphalt pavement, bedding course, subgrade course, geotextile, placement, and compaction.

(February 14, 2011 COA GSP)

PAVING FABRIC

Description

This work shall consist of furnishing and placing asphalt overlay geotextile (paving fabric) beneath a pavement overlay or between pavement layers to provide a moisture barrier membrane and a stress absorbing interlayer.

Property	Test Method	Minimum Average Roll Value (English)
Unit Weight	ASTM-D-5261	4.6 oz/yd ²
Tensile Strength	ASTM-D-4632	120 lbs
Elongation	ASTM-D-4632	50 %
Mullen Burst	ASTM-D-3786	230 psi
Asphalt Retention	ASTM-D-6140	0.24 gal/yd ²

Materials

Paving Fabric

Shall be a staple fiber, needle-punched, nonwoven material consisting of at least 85 percent by weight polyolefins, polyesters or polyamides. The paving fabric shall be resistant to chemical attack, rot and mildew and shall have no tears or defects that will adversely alter its physical properties. The fabric shall be specifically designed for pavement applications and be heat-set on one side to reduce tack coat bleed-through and to minimize fabric pick-up by construction equipment during installation. The fabric shall meet the physical requirements specified in the following table:

Tack Coat

The tack coat used to impregnate the fabric and bond the fabric to the pavement is typically the same grade asphalt cement as used in the hot mix asphalt concrete. A cationic or anionic emulsion may be used as approved by the Engineer. The Contractor shall follow the special recommendations of the paving fabric manufacturer when an asphalt emulsion is used. The use of cutbacks or emulsions that contain solvents shall not be permitted.

Construction Requirements

Shipping and Storage:

The paving fabric shall be kept dry and wrapped such that it is protected from the elements during shipping and storage. If stored outdoors, the fabric shall be elevated

1 and protected with a waterproof cover. The paving fabric shall be labeled in accordance
2 with ASTM D 4873-88, "Standard Guide for Identification, Storage, and Handling of
3 Geotextiles."
4

5 ***Weather Limitations:***

6 The air and pavement temperatures shall be at least 50°F and rising for placement of
7 asphalt cement and shall be at least 60°F and rising for placement of asphalt emulsion.
8 Neither asphalt tack coat nor paving fabric shall be placed when weather conditions are
9 not suitable, in the opinion of the Engineer.

10
11 ***Surface Preparation:***

12 The pavement surface shall be dry and thoroughly cleaned of all dirt and oil to the
13 satisfaction of the Engineer. Cracks 1/8inch wide or greater shall be cleaned and filled
14 with suitable bituminous material or by a method approved by the Engineer. Crack-filling
15 material shall be allowed to cure prior to placement of the paving fabric. Potholes and
16 other pavement distress shall be repaired. Repairs shall be performed as directed by
17 the Engineer. The paving fabric must be placed on a drainable grade with no
18 depressions which may hold water in the overlying asphalt concrete.
19

20 ***Tack Coat Application:***

21 The tack coat shall be applied using a calibrated distributor truck spray bar. Hand
22 spraying, squeegee and brush application may be used in locations where the
23 distributor truck cannot reach. Every effort shall be made to keep hand application to a
24 minimum. The tack coat shall be applied uniformly to the prepared, clean, dry pavement
25 surface. The tack coat application rate must be sufficient to saturate the fabric and to
26 bond the fabric to the existing pavement surface. The tack coat application rate shall be
27 0.22 to 0.28 gallons per square yard as required by the roadway surface and
28 environmental conditions. When using emulsions, the application rate must be
29 increased as directed by the Engineer to offset the water content of the emulsion. Within
30 street intersections, on steep grades or in other zones where vehicle braking is
31 common, the normal application rate shall be reduced by about 20 percent as directed
32 by the Engineer, but to not less than 0.20 gallons per square yard. The temperature of
33 the tack coat shall be sufficiently high to permit a uniform spray pattern. For asphalt
34 cements, the minimum temperature shall be 290°F. To avoid damage to fabric,
35 distributor tank temperatures shall not exceed 325 °F. For asphalt emulsions, the
36 distributor tank temperatures shall be maintained between 130°F and 160°F. The target
37 width of the tack coat application shall be equal to the paving fabric width plus 6 inches.
38 Tack coat application shall be wide enough to cover the entire width of fabric overlaps.
39 The tack coat shall be applied only as far in advance of paving fabric installation as is
40 appropriate to ensure a tacky surface at the time of paving fabric placement. Traffic shall
41 not be allowed on the tack coat. Excess tack coat shall be cleaned from the pavement.
42

43 ***Paving Fabric Placement:***

44 The paving fabric shall be placed onto the tack coat using mechanical or manual
45 laydown equipment capable of providing a smooth installation with a minimum amount
46 of wrinkling or folding. The paving fabric shall be placed before the asphalt cement tack
47 coat cools and loses its tackiness. Paving fabric shall not be installed in areas where the
48 overlay asphalt tapers to a minimum compacted thickness of less than 1.5 inches.
49 When asphalt emulsions are used, the emulsion shall be allowed to cure properly such
50 that essentially no water moisture remains prior to placing the paving fabric. Wrinkles
51 severe enough to cause folds shall be slit and laid flat. Brooming and/or rubber-tire

1 rolling will be required to maximize paving fabric contact with the pavement surface.
2 Additional hand-placed tack coat may be required at overlaps and repairs as required
3 by the Engineer. Turning of the paver and other vehicles shall be done gradually and
4 kept to a minimum to avoid movement and damage to the paving fabric. Abrupt starts
5 and stops shall also be avoided. Damaged fabric shall be removed and replaced with
6 same type of fabric and a tack coat.

7

8 ***Joints and Overlaps:***

9 At joints, fabric rolls shall overlap by 1 to 6 inches. End joints and joints from repair of
10 wrinkles should be made to overlap or “shingle” in the direction that the pavement
11 overlay will be placed. Overlaps of adjacent rolls may be as great as 6 inches to
12 accommodate variations between the width of the roadway and paving fabric. Excess
13 fabric shall be cut and removed to ensure that overlaps of adjacent rolls do not exceed
14 6 inches. Additional tack coat shall be applied between all fabric overlaps. Any locations
15 that do not have additional tack for the overlaps shall be corrected by manual placement
16 of tack coat prior to overlay construction.

17 **Unless otherwise approved by the Engineer, no traffic except necessary**
18 **construction traffic will be allowed to drive on the paving fabric.**

19

20 ***Overlay Placement:***

21 Asphalt overlay construction shall closely follow fabric placement. All areas in which
22 paving fabric has been placed should be paved during the same day. Excess tack coat
23 that bleeds through the paving fabric shall be removed by broadcasting sand on the
24 paving fabric. Excess sand should be removed before beginning the paving operation.
25 In the event of rainfall on the paving fabric prior to the placement of the asphalt overlay,
26 the paving fabric must be allowed to dry before asphalt concrete is placed. Overlay
27 asphalt thickness shall meet the requirements for the contract drawings and documents.
28 The minimum compacted thickness of the first lift of overlay asphalt shall not be less
29 than 1.5 inches in areas of paving fabric installation.

30

31 **Measurement**

32 “Pavement Fabric” shall be measured by the square yard of installed pavement fabric.

33

34 **Payment**

35 “Pavement Fabric”, per square yard.

36

37 The unit contract price per square yard for “Pavement Fabric” shall be full compensation for
38 all costs for materials, labor, tools, and equipment necessary for the complete installation of
39 the items of work.

40

41 *(February 14, 2011 COA GSP)*

42 **TEMPORARY ASPHALT RAMPS**

43 **Construction Requirements**

44 Temporary asphalt ramps with paper joints will be installed immediately following planing
45 operations for butt joints. A minimum taper length of 6 ft. is required and will run full width
46 across the pavement, including shoulders.

47

48 Bump signs are required at each temporary asphalt ramp location. Bump signs shall be
49 placed an appropriate distance ahead of the ramp, in accordance with the MUTCD, in order
50 to provide adequate warning to motorists.

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The Contractor will be responsible for the maintenance and safety provided by all asphalt ramps while they remain in use

Measurement and Payment

There shall be no separate measurement or payment for the construction, maintenance, removal and disposal of temporary asphalt ramps. All costs for the labor, tools, material and equipment required to perform this operation shall be included in other associated bid items and no further compensation shall be made.

Measurement

Section 5-04.4 is supplemented with the following:

(September 5, 2006 WSDOT GSP)

No specific unit of measurement will apply to the calculated item of asphalt cost price adjustment.

Payment

Section 5-04.5 is supplemented with the following:

(September 8, 2008 WSDOT GSP)

Asphalt Cost Price Adjustment

The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a payment, for qualifying changes in the reference cost of asphalt binder. The adjustment will be applied to partial payments made according to Section 1-09.9 for the following bid items when they are included in the proposal:

- “HMA Cl. ____ PG ____”
- “HMA for Approach Cl. ____ PG ____”
- “HMA for Preleveling Cl. ____ PG ____”
- “HMA for Pavement Repair Cl. ____ PG ____”
- “Commercial HMA”

The adjustment is not a guarantee of full compensation for changes in the cost of asphalt binder. The Contracting Agency does not guarantee that asphalt binder will be available at the reference cost.

The Contracting Agency will establish the asphalt binder reference cost twice each month and post the information on the Agency website at:

<http://www.wsdot.wa.gov/biz/construction/AsphaltIndex.cfm>

The reference cost will be determined using posted prices furnished by Poten & Partners, Inc. If the selected price source ceases to be available for any reason, then the Contracting Agency will select a substitute price source to establish the reference cost.

The base cost established for this contract is the reference cost posted on the Agency website for the period immediately preceding the bid opening date.

1 Adjustments will be based on the most current reference cost for Western Washington
2 or Eastern Washington as posted on the Agency website, depending on where the work
3 is performed. For work completed after all authorized working days are used, the
4 adjustment will be based on the posted reference cost during which contract time was
5 exhausted. The adjustment will be calculated as follows:
6

7 No adjustment will be made if the reference cost is within 5% of the base cost.
8

9 If the reference cost is greater than or equal to 105% of the base cost, then
10 Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).
11

12 If the reference cost is less than or equal to 95% of the base cost, then
13 Adjustment = (Current Reference Cost – (0.95 x Base Cost)) x (Q x 0.056).
14

15 Where Q = total tons of all classes of HMA paid in the current month's progress
16 payment.
17

18 "Asphalt Cost Price Adjustment", by calculation.
19

20 "Asphalt Cost Price Adjustment" will be calculated and paid for as described in this
21 section. For the purpose of providing a common proposal for all bidders, the
22 Contracting Agency has entered an amount in the proposal to become a part of the total
23 bid by the Contractor.
24

25 (*****)

26 The unit contract price for "HMA for Approach Cl. 1/2 In. PG 64-22" shall include all
27 paving items not specifically identified under "HMA Cl. 1/2 In. PG 64-22."
28

29 "HMA Cl. 1/2 In. PG 64-22" shall include temporary pavement necessary in traffic control
30 operations.
31

32 **CEMENT CONCRETE PAVEMENT**

33

34 **Construction Requirements**

35

36 ***Concrete Mix Design for Paving***

37

38 When combined aggregate concrete gradation is used, item 3 in Section 5-05.3(1) is
39 revised to read as follows:
40

41 *(April 3, 2006 WSDOT GSP)*

42 3. Mix Design Modifications. The Contractor may initiate minor adjustments to
43 the approved mix proportions. The combined aggregate gradation may be
44 adjusted provided it remains within the specifications limits detailed above. The
45 mix design will not be required to be resubmitted as long as the water
46 cementitious ratio does not change.
47

48 Utilizing admixtures to accelerate the set or to increase workability will be
49 permitted only when approved by the Engineer. Only non-chloride
50 accelerating admixtures that meet the requirements of Section 9-23.6
51 Admixture for Concrete, shall be used.
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The Contractor shall notify the Engineer in writing of any proposed modification. A new mix design will designate a new lot.

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

STRUCTURAL PLATE PIPE, PIPE ARCH, ARCH, AND UNDERPASS

Section 7-03.3 is supplemented with the following:

(*****)

Fish Passage Aluminum Box Culvert

General

This specification covers the design, manufacturing and installation of the ALUMINUM STRUCTURAL PLATE, approximately 9 inch x 2-1/2 inch corrugated aluminum structural plate detailed in the plans.

Qualified Suppliers

- (a) Each bidder is required to identify their intended bridge/culvert supplier as part of the bid submittal. Qualified suppliers must have at least five (5) years experience fabricating equal or larger type structures.
- (b) The contractor must provide the following documentation:
 - Product Literature
 - All documentation to ensure products and materials will be in compliance with these specifications.
 - Project specific representative drawings for bridge projects listed above with material, design calculations and design specification references.
- (c) Proposed suppliers must have at least five (5) years experience designing these types of structures and a minimum of ten (10) successful projects, of similar shape and construction as specifically written in these specifications and drawings, each of which has been in service at least three (3) years. List the location, shape, size, and owner, for each project.
- (d) The owner's agent will evaluate and verify the accuracy of the submittal. If the owner's agent determines that the qualifying criteria have not been met, the contractor's proposed supplier shall be rejected. This ruling shall be final.

The required structure will be designated by standard applicable catalog structure number, span, and rise.

Cover over the structure shall be determined from the crown of the structure to the bottom of flexible pavement or top of rigid pavement.

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Span: Span shall be determined at the inside corrugations

Rise: Rise shall be determined at the inside corrugations

Thickness: Plate thickness shall be for all plates or as described

Corrugation: The Aluminum Structural Plate shall have approximately 9 inch x 2-1/2 inch annular corrugations. The corrugation profile shall have AASHTO recognition for a minimum of 5 years.

(*****)
Design

Design Criteria: The design of the structure shall be in accordance with:

- AASHTO Standard Specification For Highway Bridges 17th Edition with interim revisions Section 12 Working Stress Design.
- AASHTO LRFD Bridge Design Specifications 4th Edition with interim revisions Section 12 Load Resistance Factor Design.
- AREMA Manual for Railway Engineering 2006 Edition Working Stress Design
- ASTM B790 Standard Practice for Structural Design of Corrugated Aluminum Pipe, Pipe-Arches, and Arches for Culverts, Storm Sewers, and Other Buried Conduit.

Design Loads: Construction loads and any temporary loads exceeding the service live load are not allowed on the structure without approval from the Engineer.

(a) The Contractor shall specify the materials and extents of the foundations or bedding and backfill material within the critical backfill zone with consideration of structure shape and in situ conditions.

(b) The Contractor shall consider the structural capacity of trench walls or adjacent embankments to provide balanced soil loads on the structure.

(c) The Contractor shall consider hydraulic forces on the ends of the structure. End treatment such as headwalls, slope collars, slope paving or cut-off walls shall be considered to protect the backfill and provide stability and protection to the ends of the structure as well as to prevent erosion or washout.

(d) The Contractor shall consider scour effects on the structure foundation. The use of scour counter-measures shall be considered for strip footings. The Contractor shall consider potential washout/undermining effects on the invert. The use of a toewall at the ends of a structure or a paved invert shall be considered.

Shop Drawings: Shop drawings and design calculations shall be prepared and submitted to the owner for approval. The contractor shall be responsible for verification of all field dimensions prior to fabrication.

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Aluminum Box Culverts: Shall conform to ASTM B684.

(*****)
Materials

Structural Plate: Aluminum Structural Plate shall consist of plate, ribs and appurtenant items as shown on the plans and shall conform to the requirements of AASHTO M219 or ASTM B746

Aluminum Alloy - Plate: Plates shall be fabricated from 5052-H141 aluminum alloy conforming to AASHTO M219 or ASTM B209.

Aluminum Alloy – Ribs: Ribs shall be fabricated from 6061-T6 aluminum alloy conforming to ASTM B221.

Fasteners:

Steel Nuts and bolts shall conform to AASHTO M232 and M291 or ASTM A307, Grade A (bolts) and A563, Grade A (nuts).

Aluminum nuts and bolts (if required) shall conform to ASTM B746. The structural design shall conform to the provisions of AASHTO Standard Specifications for Highway Bridges Section 12.6.2.

(*****)
Fabrication and Quality Control

Final manufacturing processes including corrugating, punching, curving, special fabrication and optional zinc priming shall be performed in the United States of America at a common location.

All raw materials shall be traceable and certified by the mill for material composition and physical properties.

If required, welds shall be in accordance with AWS D1.2.

(*****)
Installation

Assembly: The structure shall be assembled in accordance with the shop drawings and plate layout provided by the manufacturer. Bolts shall be tightened to an applied torque recommended by the manufacturer.

Installation: The structure shall be installed in accordance with AASHTO Standard Specifications for Highway Bridges Section 26 or ASTM A807, the plans and specifications, and the manufacturer’s recommendations.

(a) The Contractor shall provide footings as required per the plans and specifications.

(b) The Contractor shall provide proper bedding and backfill to avoid distortion that may create undesirable stresses in the structure and/or settlement of the roadway. The bedding shall be free of rock formations,

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protrusions, frozen material or organic material.

Backfill: The structure shall be backfilled using clean, well graded granular materials that meets the requirements of AASHTO M145 soil classifications A-1, A-2 or A-3. Aluminum box culverts shall be backfilled with A-1, A-2-4, A-2-5 or A-3 material.

(a) Backfill materials shall be placed in symmetrical lifts on each side of the structure. The differential between the lifts on either side shall not exceed 24 inches. Each layer of soil shall be placed in 6 to 8 inch loose lifts and compacted to a minimum of 90% density per AASHTO T99 or ASTM D698 (Standard Proctor). Aluminum box culverts shall be compacted to 90% density per AASHTO T180 or ASTM D1557 (Modified Proctor).

(b) Backfill soils shall be free of rocks exceeding 3 inches, frozen lumps, ice, organic matter and foreign materials that could cause hard spots or decompose to create voids.

(c) The presence of a high percentage of silt or fine sand in the native soils suggests the need for well graded granular material in the critical backfill zone or the use of non-woven geotextile to prevent soil migration.

(d) During backfilling operations, only small tracked construction equipment (such as a D-4 dozer or smaller) shall be near the structure as fill progresses above the crown and to the minimum height of cover. After adequate cover and compaction is achieved, live loads may increase at the direction of the Engineer.

(*****)

Fish Passage Installation Plan

A Fish Passage Installation Plan shall be submitted to the Engineer. It is the responsibility of the Contractor to obtain approval for the plan a minimum of 21 calendar days prior to construction. The fish passage plan shall contain, at a minimum:

- Equipment to be used
- An hour-by-hour schedule for the entire culvert construction. This schedule shall address items of work, order of work, durations for each item of work, expected time to open the road, and float.
- Stream bypass operations, including but not limited to, pumping operations, pump equipment, fish bypass (including personnel and methods for moving fish around the bypass), and backup equipment. See Stream and Fish Bypass requirements in this Section.
- Contingency plans
 - The contingencies to be considered shall include, but not be limited to:
 - Equipment failure or other problems
 - Material delivery problems
 - Unanticipated site conditions and underground conditions
 - Culvert installation problems
 - Weather or other adverse site conditions
 - The contingency plan shall address how to open the roadway by the deadline described in Section 1-10.2(2) should any site conditions prevent installation of the culvert.
 - If the culvert is not installed per the plan, the contingency plan shall address how the culvert can still be installed per the fish window as required in the

1 project's Hydraulic Project Approval.

2

3 (*****)

4 **Stream and Fish Bypass**

5 During the culvert installation, it may be necessary to bypass existing stream flows in Prairie
6 and Portage Creeks. Flows expected in each stream are as follows:

7

8 **Prairie Creek**

9	Design Storm	Flow Rate
10	2-year	27 cfs
11	10-year	48 cfs
12	100-year	79 cfs

13

14 **Portage Creek**

15	Design Storm	Flow Rate
16	2-year	53 cfs
17	10-year	94 cfs
18	100-year	152 cfs

19

20 These flows are modeled based on basin characteristics and stream flow statistics as
21 generated by the USGS StreamStats website, using regression equations and are not
22 guaranteed to be accurate.

23

24 The City has obtained a Hydraulic Project Approval (HPA) for the project, which contains
25 specific requirements for bypass pumping and fish capture and movement. In addition to the
26 requirements of the HPA, any fish capture and movement must comply with the
27 requirements in WSDOT's Fish Exclusion Protocols and Standards (see appendix). Specific
28 measures to bypass the streams and move fish shall be addressed in the Fish Passage
29 Installation Plan described in this Section.

30

31 (*****)

32 **Road Closure and Detour**

33 The fish passage culverts on 67th Ave NE may, at the Contractor's discretion, be installed
34 during two separate three day weekend closures/detours. See Section of 1-10.2(2) for
35 details and limitations on the closures/detours.

36

37 Section 7-03.5 is supplemented with the following:

38

39 (*****)

40 **Payment**

41 Supplement the section with the following:

42

43 "Fish Passage Culvert . . ." per each

44

45 The lump sum contract price for "Fish Passage Culvert . . ." shall be full pay to provide and
46 install the 3 culverts, including excavation, placement, backfill, aluminum box culverts,
47 reinforcing ribs, invert plates, headwalls, toe walls, installation plan, stream bypass and
48 pumping, fish bypass, and no other payment will be made.

49

1 **STORM SEWERS**

2 (*****)

3 **Materials**

4 Section 7-04.2 is supplemented with the following:

5

6 PVC Pipe, _ In. Diam. shall meet the requirements for Solid Wall PVC Storm Sewer
7 Pipe per section 9-05.12(1).

8

9 PVC C-900 Pipe _ In. Diam. shall meet the requirements of section 9-30.1(5)A.

10

11 Ductile Iron Pipe _ In. Diam. shall meet the requirements of section 9-30.1(1).

12

13 Perf. Pipe _ In. Diam. shall meet the requirements of section 9-05.2(6).

14

15 Filter Fabric shall meet the requirements for Geotextile for Underground Drainage,
16 Moderate Survivability per section 9-33.1.

17

18 **Payment**

19 Section 7-04.5 is supplemented with the following:

20

21 "PVC Pipe, _ In. Diam." per linear foot.

22 "PVC C-900 Pipe _ In. Diam." per linear foot.

23 "Ductile Iron Pipe _ In. Diam." per linear foot.

24 "Perf. Pipe _ In. Diam." per linear foot.

25 "Filter Fabric", per square yard.

26

27 The bid item price for all storm sewer pipe shall include excavation, backfill, and all other
28 work to install the pipe, and no other payment shall be made.

29

30 **MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS**

31

32 ***Adjusting Manholes and Catch Basins to Grade***

33 Section 7-05.3(1) is supplemented with the following:

34

35 (January 19, 2010 COA GSP)

36

37 Manholes and catch basins shall not be adjusted to grade until the paving is
38 completed, at which time the center of each structure shall be carefully relocated
39 from references previously established by the Contractor. The pavement shall be
40 cut in a restricted area and base material be removed to permit removal of the
41 cover. The structure shall then be brought to proper grade according to City of
42 Arlington Construction Standards and Specifications and the details in the plans.

43

44 **Measurement**

45 Section 7-05.4 is supplemented with the following:

46

47 (*January 25, 2012 COA GSP*)

48

49 "Adjust Existing Utility Structure" to grade will be measured per each.

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Payment

Section 7-05.5 is supplemented with the following:

(*****)

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

“Adjust Existing Utility Structure”, per each

The unit bid price for the above including all incidental work shall be full compensation for all labor, material, tools, reconnection to customer line and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and these Special Provisions. The bid item includes all castings on the project needing adjustment.

GENERAL PIPE INSTALLATION REQUIREMENTS

(*****)

Construction Requirements

Supplement Section 7-08.3 with the following:

Dewatering

The project geotechnical report is included in the appendix with information on groundwater for possible dewatering operations. Dewatering discharge shall be made to approved disposal sites identified in the Contractor’s Temporary Erosion and Sedimentation Control Plan.

Payment

Supplement Section 7-08.3 with the following:

Excavation and Backfill

Excavation and Backfill shall be included in the unit bid price for all pipes, catch basins, manholes, and other underground utilities, and no separate payment will be made.

WATER MAINS

Materials

Section 7-09.2 is supplemented with the following:

(*****)

All water mains shall use Tyton joints.

Combination Air Valve Assembly shall be Apco No. 143-C, Val-Matic No. 201-C, Fog-Tight Meter Seal Co. No. 2T Meter Box with 3/8” Steel Plate Cover, DI Svc Saddle: Romac 101S, Male Iron Coupling: Ford C-28-44 or Mueller No. 15428, Corp Stop: Ford F600, or approved equivalents.

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Payment

Section 7-09.5 is supplemented with the following:

(****)

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

“PVC C-900, 6-In. NPW.”, per linear foot

The unit bid price for the above including all incidental work shall be full compensation for all labor, material, tools, excavation, backfill, reconnection to customer line and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and these Special Provisions.

SECTION CHAMBER INFILTRATION SYSTEM

(****)

Delete Section 7-10 in its entirety and replace with the following:

7-10.1 GENERAL

The chamber detention/retention system shall consist of two or more plastic, open-bottom, arch-shaped chambers designed to store stormwater runoff and/or infiltrate stormwater runoff into surrounding soils.

7-10.2 MATERIALS

The chamber shall be constructed of injection molded polypropylene impact copolymer formulated for high impact and stress cracking resistance and sustained structural performance during high temperatures.

The chamber shall be designed to AASHTO LRFD Bridge Design Specifications (Section 12), as applied to material and performance requirements for buried thermoplastic pipes. Design live load shall be the AASHTO HS-25 or HS-20 truck and applies to chamber spacing of 5” or greater.

The chamber system shall be comprised of three chamber configurations: The MIDDLE chambers shall be open-ended to allow unobstructed hydraulic flow, inspection, and maintenance. The START and END chambers shall each have an integral end wall designed to resist loading at the start and end of the chamber rows. The chambers within a row shall be installed with overlapping end corrugations.

The nominal dimensions of the START chamber shall be 51.4 inches wide, 30.3 inches tall, and 98.4 inches long. The nominal dimensions of the MIDDLE chamber shall be 51.4 inches wide, 30.3 inches tall, and 91.0 inches long. The nominal dimensions of the END chamber shall be 51.4 inches wide, 30.3 inches tall, and 92.0 inches long. The nominal storage volume inside the chamber shall be 77 cubic feet when utilizing 6” of stone above and below chamber with 40% stone porosity.

The chamber shall have a continuously-curved, arch-shaped section profile.

1 The START and END chamber integral end wall shall be structurally suitable for
2 cutting and inserting inlet pipes and shall provide a range of pipe diameter indicants
3 up to 24" diameter as cutting templates.
4
5 The chamber shall be a corrugated, open-bottom design with 0.4" wide x 1.5" tall
6 slotted side wall openings for lateral flow and top vent orifices for hydraulic pressure
7 equalization. Corrugation valleys and crests shall be sub-corrugated to increase
8 stiffness.
9
10 The chamber shall have a circular cut line for an optional reinforced inspection or
11 cleanout port configured to accept a 4" Schedule 40 pipe.
12
13 The END chambers shall be capable of being cut to shorter lengths to accommodate
14 site specific requirements.
15
16 The chamber shall be supported by integral structural footings comprised of load
17 dispersing toe ribs and longitudinally aligned stiffening ribs.
18
19 The chamber system may be configured with one or more rows that act as settling
20 basins to allow for containment and settlement of sediments and associated
21 pollutants to be maintained. This row(s) shall be wrapped in a 20 mil polyethylene
22 impermeable liner. This row(s) shall utilize an upstream diversion manhole which
23 shall consist of a standard manhole with a diversion weir and drain down orifice.
24

25 **7-10.3 CONSTRUCTION**

26
27 Refer to manufacturer's installation instructions for proper procedure required to maintain
28 structural integrity and functionality of the chamber system.
29

30 **7-10.4 MEASUREMENT**

31
32 Section Chamber Infiltration System shall be measured by the linear foot of installed
33 chamber.
34

35 **7-10.5 PAYMENT**

36
37 "Section Chamber Infiltration System", per linear foot.
38

39 The lump sum Contract Payment shall be full compensation for all costs incurred by the
40 Contractor in performing the Contract Work described in this Special Provision, including, but
41 not limited to, providing and installing chambers, excavation, placement of chambers,
42 backfilling, and connecting to the storm sewer system.
43

44 **WATER QUALITY MANHOLE**

45 (*****)

46 Delete Section 7-11 in its entirety and replace with the following:
47

48 **7-11.1 GENERAL**

49 The Contractor shall furnish all labor, equipment and materials necessary to install
50 the Water Quality Manhole (WQMH) and appurtenances specified in the Drawings
51 and these specifications.

1 Inspection
2 All components shall be subject to inspection by the engineer at the place of
3 manufacture and/or installation. All components are subject to rejected or identified
4 for repair if the quality of materials and manufacturing do not comply with the
5 requirements of this specification. Components which have been identified as
6 defective may be subject for repair where final acceptance of the component is
7 contingent on the discretion of the Engineer.

8 Warranty
9 The manufacturer shall guarantee the WQMH components against all manufacturer
10 originated defects in materials or workmanship for a period of twelve (12) months
11 from the date the components are delivered to the owner for installation. The
12 manufacturer shall upon its determination repair, correct or replace any
13 manufacturer originated defects advised in writing to the manufacturer within the
14 referenced warranty period. The use of WQMH components shall be limited to the
15 application for which it was specifically designed.

16 Manufacturer's Performance Certificate
17 The WQMH manufacturer shall submit to the Engineer of Record a "Manufacturer's
18 Performance Certification" certifying that each WQMH is capable of achieving the
19 specified removal efficiencies listed in these specifications. The certification shall
20 be supported by independent third-party research.

21 **SUBMITTALS**

22 Shop Drawings
23 The contractor shall prepare and submit shop for approval by the Engineer prior to
24 beginning any construction of the Water Quality Manhole (WQMH). The shop
25 drawings shall detail horizontal and vertical dimensioning, reinforcement and joint
26 type and locations.

27
28 **7-11.2 MATERIALS**

29 The WQMH shall be a hydrodynamic separator approved for Pretreatment at the
30 time of bid by the Washington State Department of Ecology through the TAPE.
31 Approved technologies can be found at
32 <http://www.ecy.wa.gov/programs/wq/stormwater/newtech/Pretreatment.html>

33 Hydrodynamic separators are defined as systems that use the physics of flowing
34 water to remove a variety of pollutants and are characterized by an internal
35 structure that either creates a swirling vortex or plunges the water into the main
36 sump. Cartridge based systems are not allowed.

37 The hydrodynamic separator shall be capable of treating a water quality flow rate of
38 0.7 cfs and bypassing a flow rate of 10 cfs.

39 The water quality manhole shall have a 4 foot deep sump.

40 **MANUFACTURER**

1 The manufacturer of the WQMH shall be one that is regularly engaged in the
2 engineering design and production of systems deployed for the treatment of storm
3 water runoff for at least five (5) years and which have a history of successful
4 production, acceptable to the Engineer.

5 **7-11.3 CONSTRUCTION**

6

7 **HANDLING AND STORAGE**

8 1. The contractor shall exercise care in the storage and handling of the WQMH
9 components prior to and during installation. Any repair or replacement costs
10 associated with events occurring after delivery is accepted and unloading has
11 commenced shall be born by the contractor.

12 **INSTALLATION**

13 1. The WQMH shall be installed in accordance with the manufacturer's
14 recommendations and related sections of the contract documents. The
15 manufacturer shall provide the contractor installation instructions and offer on-site
16 guidance during the important stages of the installation as identified by the
17 manufacturer at no additional expense. A minimum of 72 hours notice shall be
18 provided to the manufacturer prior to their performance of the services included
19 under this subsection.

20 2. The contractor shall fill all voids associated with lifting provisions provided by the
21 manufacturer. These voids shall be filled with non-shrinking grout providing a
22 finished surface consistent with adjacent surfaces. The contractor shall trim all
23 protruding lifting provisions flush with the adjacent concrete surface in a manner,
24 which leaves no sharp points or edges.

25 3. The contractor shall removal all loose material and pooling water from the WQMH
26 prior to the transfer of operational responsibility to the Owner.

27

28 **7-11.4 MEASUREMENT**

29

30 Water Quality Manhole shall be measured per each.

31

32 **7-11.5 PAYMENT**

33

34 "Water Quality Manhole", per each.

35

36 The unit Contract price shall be full compensation for all costs incurred by the Contractor in
37 performing the Contract Work described in this Special Provision, including, but not limited
38 to, providing and installing manhole, excavation, placement of structure, backfilling, adjusting
39 to grade, and connecting to the storm sewer system.

40

41 **VALVES FOR WATER MAINS**

42

43 **Description**

44 Section 7-12.1 is supplemented with the following:

45

46 (June 17, 2010 COA GSP)

47

1 Work shall include inspecting, replacing as directed, and adjusting valve boxes to
2 finished grade.

3
4 **Materials**

5 Section 7-12.2 is supplemented with the following:

6
7 (*****)

8
9 Valve Boxes and Operating Nut Extensions shall be Rich No. 940 and Sather, or
10 approved equivalent.

11
12 **Construction Requirements**

13 Section 7-12.3 is supplemented with the following:

14
15 (June 17, 2010 COA GSP)

16 ***Adjustment of Utility/Valve Boxes***

17
18 For inspection purposes the Contractor shall excavate around all valve boxes
19 selected by the Engineer prior to pavement work. Excavation for inspection is
20 anticipated to be a maximum of 36 inches in diameter by 18 inches in depth. The
21 actual excavation will vary depending upon field conditions. No extra
22 compensation will be made due to variable excavation requirements.

23
24 After inspection and prior to pavement work, valve boxes as designated by the
25 Engineer shall receive one or more of the following repairs:

26
27 Remove valve box and replace with new meeting the requirements of Section
28 9-30(4) *Valve Boxes* of the Standard Specifications.

29
30 Reuse and clear the valve box of all debris and leave the valve in a fully
31 operable condition. Clearing valve boxes shall be considered incidental to
32 excavation of the valve box.

33
34 Center valve box. Where the existing valve box is to remain and is not
35 centered over the valve, the Contractor shall excavate to the water valve and
36 center the valve box over the valve nut. Centering the valve box shall be
37 considered incidental to excavation of the valve box.

38
39 Concrete pad around valve box. Where the existing valve box that is to be raised is
40 not within asphalt, a concrete pad shall be installed per City of Arlington Standard
41 Detail W-190.

42
43 The excavation void due to repair inspection or adjustment work shall be backfilled
44 within the top 3 inches with HMA Class 1/2" PG 64 -22.

45
46 After final paving, valve boxes shall be adjusted per Section 7-05.3(1) *Adjusting*
47 *Manholes and Catch Basins to Grade* of the Standard Specifications. All valves
48 shall be adjusted to grade.

49
50 **Payment**

51 Section 7-12.5 is supplemented with the following:

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

All costs in connection with adjustment with utility / valve box shall be included in the Bid Item "Adjust Existing Utility Structure".

The unit bid price for the above including all incidental work shall be full compensation for all labor, material, tools, reconnection to customer line and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and these Special Provisions.

TREATMENT LINER AMENDED SOIL

(****)

Delete Section 7-13 in its entirety and replace with the following:

Description

This work shall consist of furnishing and placing imported treatment liner soil at the base of infiltration trench systems as indicated in the plans and specifications provided in this section.

Materials

Treatment liner soil shall be a homogenous mixture of soil and gravel components, including:
Gravel meeting the requirements of WSDOT Std Specification, Section 9-03.12(5).
Compost meeting the requirements of WSDOT Std Specification, Section 9-14.4(8)

Properties

Treatment liner soils shall consist of the following properties:
Treatment liner soil components shall be thoroughly blended to form a uniform homogenous mixture.
Organic content of treatment liner soil mixture shall be 5%, measured on a dry weight basis using ASTM D2974.
Cationic Exchange Capacity (CEC) of treatment liner soil mixture shall be 5-milliequivalents/100 grams, tested using EPA laboratory method 9081.
Compost approval shall be in accordance with WSDOT Std Specification, Section 9-14.4(8)A.
Animal manures, if used in treatment soil layers, must be sterilized.
Treatment soil liner shall be compacted in 6-inch lifts to 80% maximum dry density, modified proctor method (ASTM D-1557).

Submittals

Treatment liner amended soil mix – provide mixture proportions and test results to indicate soil mix conforms with the properties specified in this section.

Payment

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

"Water Quality Treatment Liner" per Cubic Yard

1 The unit bid price for the above including all incidental work shall be full compensation
2 for all labor, material, tools, and equipment necessary to satisfactorily complete the work
3 as defined in the Standard Specifications and these Special Provisions.
4

5 **HYDRANTS**

6 **Materials**

7 Section 7-14.2 is supplemented with the following:
8

9
10 (*****)

11
12 Fire Hydrant Assemblies shall be M&H 929 Reliant or Mueller Super Centurion 250, or
13 approved equivalent.
14

15 **SERVICE CONNECTIONS**

16 **Materials**

17 Section 7-15.2 is supplemented with the following:
18

19
20 (*****)

21
22 Meter boxes shall be MidStates Plastics 1324-12 w/ solid DI lid, MidStates Plastics
23 1730-18 w/solid DI lid, or approved equivalent.
24

25 Meter setter shall be Ford, Mueller, or approved equivalent.
26

27 Corp stop shall be Mueller or Ford 1" ball valve.
28

29 **Description**

30 Section 7-15.1 is supplemented with the following:
31

32 (*June 17, 2010 COA GSP*)
33

34 Work shall include inspecting, replacing as directed, and adjusting meter boxes to
35 finished grade.
36

37 **Construction Requirements**

38 Section 7-15.3 is supplemented with the following:
39

40 (*****)

41 For inspection purposes the Contractor shall excavate around all meter boxes selected
42 by the Engineer prior to pavement work. Excavation for inspection is anticipated to be a
43 maximum of 36 inches in diameter by 18 inches in depth. The actual excavation will
44 vary depending upon field conditions. No extra compensation will be made due to
45 variable excavation requirements.
46

47 After inspection and prior to pavement work, meter boxes shall be replaced with new
48 meters provided by the City.
49

50 The excavation void due to new meter installation_ work shall be backfilled within the top
51 2 inches with HMA Class ½" PG 64 -22.

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After final paving, valve boxes shall be adjusted per Section 7-05.3(1) *Adjusting Manholes and Catch Basins to Grade* of the Standard Specifications. All valves will be adjusted to grade.

Payment

Section 7-15.5 is supplemented with the following:

(*****)

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

All costs in connection with adjustment with utility / valve box shall be included in the Bid Item "Adjust Existing Utility Structure".

The unit bid price for the above including all incidental work shall be full compensation for all labor, material, tools, excavation, backfill, reconnection to customer line and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and these Special Provisions.

SANITARY SEWER

Material

Section 7-17.2 is supplemented with the following:

(*****)

Ductile Iron SS __ In. Diam. shall meet the requirements of section 9-30.1(1).

Construction Requirements

Section 7-17.3(1) is supplemented with the following:

(*****)

Existing Sanitary Sewer facilities, including but not limited to all manholes and pipes, shall be protected from damage at all times. Any damage to existing sanitary sewer facilities shall be repaired or replaced to the satisfaction of the Engineer at no cost to the City.

Add the following new sections:

7-17.3(2)I Bypass Pumping Plan

If at any time the Contractor elects to use bypass pumping, a plan describing the personnel, methods, equipment, timing, and schedule for the bypass pumping will be submitted to the Engineer for approval a minimum of 14 calendar days prior to the proposed work.

7-17.3(2)J Bypass Pumping Requirements

If the Contractor elects to use bypass pumping, a suitable backup system must be on-site and ready for use at all times the bypass is in use. The Contractor shall also

1 identify personnel that will monitor the bypass system at all times, including overnight or
2 other non-working hours if necessary. The personnel monitoring the bypass system
3 must be capable of putting the backup system into place immediately should be primary
4 system fail for any reason. If portable electric generators are used to power the bypass
5 system, and backup for the generator must be on-site.
6
7

8 **Payment**

9 Section 7-17.5 is supplemented with the following:

10

11 (*****)

12

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

14

15 "Ductile Iron SS ___ In. Diam.", per linear foot

16 "Connect existing SS lateral", per each

17

18 The unit bid price for the above including all incidental work shall be full compensation
19 for all labor, material, tools, reconnection to customer line, bypass pumping, backup
20 systems, bypass monitoring, bypass pumping plan, excavation, backfill, and equipment
21 necessary to satisfactorily complete the work as defined in the Standard Specifications
22 and these Special Provisions.
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**DIVISION 8
MISCELLANEOUS CONSTRUCTION**

6
7

EROSION CONTROL AND WATER POLLUTION CONTROL

8

8-01.1 Description

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(*****)

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Section 8-01.1 is supplemented with the following:

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This work shall include, but not be limited to, inlet protection, rock check dams, construction fence, silt fence, wattles, rock check dams, seeding and fertilizing, sediment pond riser, and other measures needed to protect adjacent areas or disturbed areas during and after construction. Temporary water pollution and erosion control devices shall be inspected on a daily basis and adjusted or relocated as construction progresses.

21

8-01.2 Materials

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(*****)

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26

Section 8-01.2 is supplemented with the following:

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29

Temporary erosion control and water pollution control BMPs shall meet the requirements of the City of Arlington's Design and Construction Standards and Specifications.

30

8-01.3(1) General

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(*****)

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37

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

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39

Preconstruction Activities

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Prior to beginning any activities that disturb the earth, the Contractor shall coordinate the construction activities to preserve as much of the natural vegetation as possible outside the construction limits.

44
45

Temporary Best Management Practices (BMP's)

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48
49

All temporary erosion and sediment control measures shall be removed within 30 days after the Engineer determines that final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on-site. Disturbed soil areas resulting from removal shall be permanently stabilized.

50

Off Site Runoff

The Contractor shall keep all off site runoff from running over the construction site and entering the project's temporary erosion and sediment control methods.

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

(January 26, 2012 COA GSP)

The Contractor shall prepare a Surface Water Pollution Prevention Plan (SWPPP) in accordance with Volume 2 of the Washington Department of Ecology's Stormwater Management Manual for Western Washington (2005 Edition) and the Construction Stormwater General Permit (General Permit.) The General Permit language is available online at:

<http://www.ecv.wa.gov/proqrams/wq/stormwater/construction/>

- 1 The SWPPP shall discuss the Contractor's methodology and approach to controlling
2 erosion and preventing sediment from leaving the site and anticipated erosion control
3 measures to be implemented beyond those included in the Plans. The following
4 items shall be submitted to and approved by the Engineer at the time noted.
5
- 6 1. An accepted SWPPP plan shall be submitted and approved prior to beginning
7 construction.
 - 8 2. An ESC Lead to be responsible for the project erosion and sediment control
9 management shall be identified and 24 hour contact information provided to the
10 Engineer prior to beginning construction.
 - 11 3. An SPCC plan shall be completed and submitted prior to beginning construction.
 - 12 4. After completion of construction activities a full copy of the SWPPP to include all
13 inspection reports, plan modifications, and sampling reports shall be submitted.

14
15 **Seeding and Fertilizing**

16
17 Section 8-01.3(2)B is supplemented with the following:
18

19 **8-01.3(2)A Preparation for Application**

20 (*****)

21 *This section is supplemented with the following:*

22 All areas to be seeded shall meet the specified finish grades and shall be free of
23 undesirable weed or plant growth. Scarify the top six (6) inches of subgrade. Where
24 identified on Plans, a four (4) inch depth of compacted Coarse Compost shall be
25 scarified into subgrade to a twelve (12) inch depth. Lightly compact soil to 85%
26 maximum density and establish a smooth and uniform finished grade that protects
27 against obstruction to surface drainage. Rake and remove rocks, roots, and debris one
28 (1) inches or larger in any dimension.

29
30 Unwanted vegetation in any area to be seeded shall be controlled according to the
31 requirements of Section 8-02.3(3) prior to seeding.
32

33 Areas requiring seeding which become compacted due to construction use, such as
34 staging areas and access roads, shall be loosened and cultivated to a minimum depth of
35 10 inches prior to seeding operations.
36

37 No cultivation shall occur in areas within the drip line of existing vegetation scheduled to
38 remain.
39

40
41 **8-01.3(2)B Seeding and Fertilizing**

42 (*****)

43 *This section is supplemented with the following:*

44 Hydroseeding is anticipated to begin after finish-grading work has been completed and
45 while the soil remains friable and weed free. Throughout hydroseeding operations, the
46 Contractor shall keep the premises clean, free of excess soils and other materials, including
47 refuse and debris, resulting from the Contractor's work. At the conclusion of work, the
48 Contractor shall remove surplus hydroseeding materials and installation debris from the
49 construction site and shall leave the project in a neat condition.

50 **Erosion Control Seed**

51 Seed of the following composition, proportion, and quality shall be applied at a rate of 80
52 pounds per acre on areas requiring seeding, fertilizing and mulching:

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Kind and Variety of <u>Seed in Mixture</u>	Pounds of Pure Live Seed <u>Per Acre</u>
Perennial Rye (Lolium perenne)	60.0
Red fescue (Festuca rubra ssp. rubra)	17.0
White Dutch Clover (Trifolium repens) (pre-inoculated)	<u>3.0</u>
TOTAL	80.0

Source Identified seed shall be fourth generation or earlier. Non-Source Identified seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the *** Puget Lowland *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA) and shown at:

http://www.wsdot.wa.gov/publications/fulltext/Roadside/eco_regions_v9.jpg

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

(NWR July 27, 2009)

Fertilizer for Seeding, Fertilizing, and Mulching

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

Total Nitrogen as N - 135 pounds per acre.

Available Phosphoric Acid as P2O5 - 60 pounds per acre.

Soluble Potash as K2O - 60 pounds per acre.

The Contractor shall provide a manufacturer's certificate that the product contains 70% or greater slow release nitrogen with a release time period greater than six weeks and that hydroseeding is an acceptable application method.

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

8-01.3(2)D Mulching

(*****)

This section is supplemented with the following:

Wood cellulose fiber mulch used with erosion control seeding shall be applied in accordance with manufacturer's recommended rate. Mulch shall be applied with a tackifier per section 8-01.3(2)E.

8-01.3(7) Stabilized Construction Entrance

1 (*****)
2 Section 8-01.3(7) is supplemented with the following:
3 The Stabilized Construction Entrance shall meet the requirements of WSDOT Standard Plan
4 I-80.10-01.

5
6 **8-01.3(8) Street Cleaning**

7 (*****)
8 Section 8-01.3(8) is supplemented with the following:
9 Contractor shall be responsible for controlling dust and mud within the project limits.
10 Contractor shall clean up on a daily basis all refuse, rubbish, scrap material and debris
11 caused by the work, to the end that, at all times, the site of the work shall present a neat,
12 orderly and workmanlike appearance.

13
14 Contractor shall be responsible at all times, for the maintenance of streets and other utilities
15 affected by construction operations. Contractor shall clean and sweep streets at the end of
16 each working day, and throughout the working day, as deemed necessary by the Project
17 Engineer, to render the streets free of all mud, debris, and foreign materials.

18
19 In the event the Contractor fails to conform to these requirements, the Owner shall have the
20 right to have the work done by others and the cost shall be deducted from moneys due to
21 the Contractor in accordance with Section 1-05.7 of the Standard Specifications as revised
22 by the Special Provisions.

23
24 Costs associated with street cleaning are considered incidental to other work of this contract.

25
26 No separate payment will be made for street cleaning.

27
28 Loose dirt and construction debris shall be removed from the roadway at the end of each
29 work shift, prior to expected rainfall, to control dust, and as ordered by the Engineer. Dirt and
30 debris will not be allowed into the storm sewer system or into waterways. Cleaning and
31 debris removal shall occur within 24 hours of the order. The type and number of sweepers
32 are subject to the approval of the Engineer. For street sweepers, a backup vehicle, equipped
33 with a sequential arrow sign meeting the requirements of Section 9-35.4 of the
34 AMENDMENTS TO THE STANDARD SPECIFICATIONS of these Contract Provisions, shall
35 follow the work vehicle (sweeper). The backup vehicle shall be self-propelled and separate
36 from the work vehicle and shall be equipped with a truck mounted impact attenuator meeting
37 the requirements in the Special Provision Mobile Operations.

38
39 The Contractor shall plan the operations to minimize the need for street cleaning.

40
41 All equipment shall be kept clean and free of dirt and contaminants and shall be free of fluid
42 leaks.

43
44 **8-01.3(9) Sediment Control Barriers**

45 (*****)
46 Section 8-01.3(9) is supplemented with the following:
47 Silt fence shall be inspected after heavy rainfall and regularly during prolonged rainfall. If
48 there are tears or breaks found in the fence, the fence shall be repaired or replaced
49 immediately. If the filter fabric deteriorates, it shall be replaced.

50
51 **Payment**

52

1 Section 8-01.5 is supplemented with the following:

2

3 *(April 3, 2006 WSDOT GSP)*

4 All costs associated with the treatment of pH in high pH stormwater or dewatering water
5 shall be included in the applicable concrete, grinding or sawcutting items of work.

6

7 **ROADSIDE RESTORATION**

8

9

10 **Materials**

11 Section 8-02.2(9-14.1(1)) shall be supplemented with the following:

12

13 *(NWR January 3, 2011)*

14

15 **Topsoil Type B**

16 Topsoil Type B shall meet the material requirements as specified in Section 9-14.1(2) with
17 the exception that the second paragraph is deleted.

18

19 **Compost**

20 Compost shall be coarse compost and meet the material requirements as specified
21 in Section 9-14.4(8).

22

23 **Mixing Requirements**

24 The Contractor shall submit the proposed method of mixing in writing for the
25 Engineers approval. No mixing shall take place without written approval from the
26 Engineer.

27

28 **Soil Amendments**

29 Soil amendment shall be coarse compost.

30

31 **Arborvitae**

32 Arborvitae trees shall be 8' in height at planting, Extra Wide, and Grade A Extra Heavy.

33

34 **Construction Requirements**

35

36 ***8-02.3(1) Responsibility During Construction***

37

38 Section 8-02.3(1) is supplemented with the following:

39

40 *(NWR June 5, 2000)*

41 For all planting areas, the Contractor shall perform work in a manner that minimizes
42 displacement and compaction of the existing soil. Work will be stopped if, in the
43 opinion of the Engineer, construction method, soil moisture content or other
44 condition will result in displacement of the existing soil horizon (such as ruts over 3
45 inches deep), or compaction of the soil. The Contractor will not be allowed to
46 resume work until conditions improve or an alternate method of construction is
47 approved by the Engineer.

48

49 ***8-02.3(3) Planting Area Weed Control***

50

51 Section 8-02.3(3) is supplemented with the following:

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(NWR January 3, 2011)

Unwanted Vegetation

In addition to noxious weeds, unwanted vegetation within roadside and mitigation areas throughout the project limits includes:

- Butterfly bush (*Buddleia* spp.)
- Canadian thistle (*Cirsium arvense*)
- Common reed (*Phragmites australis*)
- Evergreen blackberry (*Rubus laciniatus*)
- Giant hogweed (*Heracleum Mantegazzianum*)
- Hedge bindweed (*Calystegia sepium*)
- Himalayan blackberry (*Rubus discolor* or *R. procerus*)
- Knotweed (*Polygonum cuspidatum*, *P. bohemicum*, *P. sachalinense*, *P. polystachyum*)
- Purple loosestrife (*Lythrum salicaria*)
- Reed Canarygrass (*Phalaris arundinacea*)
- Scotch broom (*Cytisus scoparius*)

The Contractor shall identify all target weeds, specific to the site, to be controlled in the Weed and Pest Control Plan in accordance with Section 8-02.3(2).

(NWR January 3, 2011)

The Contractor shall control additional unwanted vegetation found within the ***Portage Creek Wetland Enhancement and Prairie Creek Fish Passage areas***. A method for control shall be proposed in the weed control and pest control plans and approved by the Engineer.

(NWR January 17, 2006)

The application of pre-emergent or residual herbicide will not be allowed on this project.

(NWR January 3, 2011)

All work to control weeds or pests shall be performed according to the Weed and Pest Control Plan as required in Section 8-02.3(2) throughout the life of the project. If the need arises for methods of weed or pest control that are not covered by the approved Weed and Pest Control Plan, the Contractor shall submit an amended plan for approval by the Engineer prior to performing the work.

(NWR March 22, 2010)

A *** one (1) - foot *** radius area around each plant, excluding emergent plants, where applicable, shall be kept free of all other vegetation.

The seeded areas between plants shall be kept free of all undesirable vegetation as described in Section 8-02.3(3).

8-02.3(5) Planting Area Preparation

Section 8-02.3(5) is supplemented with the following:

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(NWR August 1, 2001)

For planting areas that become compacted due to construction use, such as staging areas and access roads, the Contractor shall loosen and cultivate to a minimum depth of *** 12 inches *** prior to planting and seeding operations.

No cultivation shall occur in areas within the drip line of existing vegetation scheduled to remain.

8-02.3(6) Soil Amendments

Section 8-02.3(6) is supplemented with the following:

(NWR January 17, 2006)

Prior to placement and incorporation of soil amendment, the application and incorporation methods shall be approved by the Engineer.

After the initial planting area weed control, soil placement, and grading are completed, and prior to the installation of irrigation lines and planting, all designated planting areas shall be covered with soil amendment. Soil amendment shall not be placed when a condition exists, such as frozen or water saturated soil, that may be detrimental to successful application, incorporation, or soil structure.

The Contractor shall notify the Engineer a minimum of five working days prior to the start of soil amendment work.

(NWR August 1, 2001)

Soil amendment shall be uniformly and evenly placed in all designated planting areas to a 3 inch, non-compacted depth and incorporated into the existing soil to a 10 inch depth.

8-02.3(8) Planting

Section 8-02.3(6) is supplemented with the following:

(NWR January 17, 2006)

The Contractor shall exercise care when installing plant material in creek or stream bank edges to minimize disturbance of the stream bank and prevent sediment or other pollutant discharges from entering the stream.

(NWR January 17, 2006)

Extension of Planting Period

For planting areas where soil is saturated during the contract planting period, the Contractor may request an extension of the planting period until a time when soils are no longer saturated. The Contractor must submit a written request to the Engineer a minimum of 10 working days prior to the end of the contract planting period. The request must indicate the following:

1. Planting areas included in proposal
2. Method of storage for plant material and cuttings
3. Time for planting
4. Supplementary measures to ensure plant survival

1 The Engineer will only approve the extension for planting areas where saturated
2 soil prevents planting during the contract planting period. Only additional costs for
3 storage of plant material and remobilization are included in this item.
4

5 An extension of planting period waives only the planting timing for the selected
6 planting areas. All other provisions shall continue to apply.
7

8 **8-02.3(11) Bark or Wood Chip Mulch**
9

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

12 *(NWR January 17, 2006)*

13 Bark mulch or wood chip mulch shall be placed to a *** 3-inch *** non-compacted
14 depth within a 1-foot radius around each plant (except emergents, if applicable).
15

16 **8-02.3(13) Plant Establishment**
17

18 Section 8-02.3(11) is supplemented with the following:
19

20 The Plant Establishment Plan shall show the scheduling, frequency, dates,
21 materials and equipment utilized, whichever may apply, for all plant establishment
22 activities including, but not limited to, the following:
23

24 A. Plant Establishment Activities
25

26 1. Weed Control for Target Weeds within Planting Areas
27

- 28 a. Chemical Applications
29 (post and pre-emergent)
- 30 b. Hand weeding and removal
31

32 2. Fertilizing
33

34 3. Watering
35

36 4. Litter and Debris Removal
37

38 5. Pruning
39

40 6. Insect and Disease Control
41

42 7. Erosion Control Methods and Procedures
43

44 8. Plant Replacement
45
46

47 **Payment**

48 Section 8-02.5 is supplemented with the following:
49

50 (*****)
51

1 “Environmental Mitigation”, per lump sum
2 The lump sum contract price for “Environmental Mitigation” shall be full pay for tools, labor,
3 equipment, and materials necessary to construct the mitigation, including plant removal and
4 weed control, PSIFE, grading, topsoil, and any other items necessary to complete the
5 mitigation, and no other payment will be made. Excavation for environmental mitigation is
6 paid under the item “Mitigation Excavation Incl. Haul.”
7
8

9 **CHAIN LINK FENCE AND WIRE FENCE**

10
11 **(*****)**

12 Section 8-12.2 is supplemented with the following:
13

14 The Property Fence shall consist of vinyl posts, rails, and boards. Color shall be khaki.
15
16

17 **(*****)**

18 Section 8-12.3(1)B is supplemented with the following:
19

20 Top rails for Chain Link Fence Type 4 shall be galvanized pipe meeting the requirements for
21 line or brace posts as shown in WSDOT Standard Plan L-20.10-01.
22

23 The Property Fence shall be Solid Board style as shown in the standard plan in the
24 appendix.
25

26 The Contractor shall submit detailed drawings and specifications showing the wood fence
27 details, site specific layout and foundation designs for approval prior to constructing the
28 fence.
29

30 **(*****)**

31 Add the following new section:
32

33 8-12.3(3) Rolling Chain Link Fence Gate, 30-foot
34

35 Where shown in the plans, two 30-foot rolling chain link fence gates shall be constructed to
36 produce a total opening of 60 feet. The rolling gates shall be constructed per WSDOT
37 Standard Plan L-20.10-01, except where modified to produce a rolling gate. The rolling gate
38 shall include a double carrier wheel at the bottom, a rear wheel that rides on a tracking post,
39 and a latch to enable locking with a padlock. All metal parts shall be hot dipped galvanized.
40

41 Prior to constructing the rolling chain link fence gate, the Contractor shall submit shop
42 drawings and material catalog cuts for approval by the Engineer.
43

44 **(*****)**

45 Add the following new section:
46

47 8-12.3(4) Widen Existing Fence Gate
48

49 Where shown in the plans, two existing 14 foot gates shall be widened to 20 foot double
50 gates per WSDOT Standard Plan L-30.10-01. The existing gate posts, gates, and
51 foundations shall be removed and disposed of. The existing fence fabric shall be trimmed

1 back as necessary to accommodate the new gates and cut wires shall be painted with
2 galvanizing paint prior to attaching to the new gate posts.
3
4 New foundations, gate posts, and gate assemblies shall be installed per WSDOT Standard
5 Plan L-30.10-01.
6
7 Add the following new section:
8
9 8-12.3(5) Bollard
10
11 Where shown in the plans, bollards shall be constructed per Snohomish County Standard
12 Plan 4-170.
13
14 (*****)
15 **Payment**
16 Section 8-12.5 is supplemented with the following:
17
18 “Rolling Chain Link Fence Gate, 30-foot”, per each
19 The unit contract price for “Widen Existing Fence Gate” shall be full pay for tools, labor,
20 equipment, and materials necessary to construct the widened gate, including removal of
21 existing gate, excavation, foundations, gate posts, galvanizing paint, gate assemblies, and
22 fence fabric, and no other payment will be made.
23
24 “Property Fence”, per linear foot
25 The linear foot bid price for “Property Fence” shall be full pay to furnish and install the wood
26 fence, including posts, rails, boards, hardware, foundations, excavation and submittal and
27 revision of the fence plans and specifications, and no further payment shall be made.
28
29 “Widen Existing Fence Gate”, per each
30 The unit contract price for “Widen Existing Fence Gate” shall be full pay for tools, labor,
31 equipment, and materials necessary to construct the widened gate, including removal of
32 existing gate, excavation, foundations, gate posts, galvanizing paint, gate assemblies, and
33 fence fabric, and no other payment will be made.
34
35 “Pedestrian Handrail”, per linear foot
36 The unit contract price for “Pedestrian Handrail” shall be full pay for tools, labor, equipment,
37 and materials necessary to construct the handrail, including coring, excavation, foundations,
38 handrail, and sidewalk trimming and cleanup, and no other payment will be made.
39
40 “Bollard”, per each
41 The unit contract price for “Bollard” shall be full pay for tools, labor, equipment, and materials
42 necessary to construct the bollard, including sawcutting, coring, excavation, foundations,
43 bollard, and sidewalk/roadway trimming and cleanup, and no other payment will be made.
44 The unit contract price for “Bollard” shall apply whether the bollard is fixed or removable.
45
46
47 **CEMENT CONCRETE SIDEWALKS**
48
49 Section 8-14 is supplemented with the following:
50
51 (March 28, 2011 COA GSP)

1 **AMERICANS WITH DISABILITIES ACT (ADA)**

2 **Construction Requirements**

3
4 All ADA facilities shall be in accordance with the latest edition of the Proposed Right-of-Way
5 Accessibility Guidelines (PROWAG) guidelines.

6
7 Unless otherwise specified on the plans, or directed by the Engineer, cross slopes of
8 sidewalks shall be a nominal 1.5%. Cross slopes shall not be less than 1% nor exceed 2%.

9
10 Maximum slopes shown on the plans represent the maximum allowable slopes permitted by
11 current ADA requirements. The Contractor shall take into consideration construction
12 tolerances when placing sidewalks to insure maximum slopes are not exceeded.

13
14 Completed sidewalks or other hardscape elements that exceed maximum specified slopes
15 or are less than minimum specified slopes shall be removed and replaced by the Contractor
16 at the Contractor's expense.

17
18 **Measurement and Payment**

19
20 Measurement of slopes shall be performed on the walkable surface and shall not take into
21 consideration the curb elevation.

22
23 Measurement and payment of concrete sidewalks shall be included in "Cement Conc.
24 Sidewalk".

25
26 Measurement and payment of ramps shall be included in "Cement Conc. Sidewalk", and no
27 separate payment will be made.

28
29 (*****)

30 **Payment**

31
32 Supplement the section with the following:

33
34 The unit bid price for Cement Conc. Sidewalk shall apply regardless of the thickness of the
35 sidewalk required.

36
37 **MAILBOX SUPPORT**

38
39 Section 8-18 is supplemented with the following:

40
41 (*****)

42 **RESET MAILBOXES**

43 **Construction Requirements**

44
45 The Contractor shall coordinate permanent mailbox locations with the Engineer, and shall
46 reset mailboxes on a new post.

47
48 **Payment**

49 Section 8-18.5 is supplemented with the following:

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“Reset Mailbox”, per each

The unit contract price for “Reset Mailbox” shall be full pay for tools, labor, equipment, and materials necessary to reset the mailbox, including moving the mailbox from its existing location, constructing a new foundation, setting the post, and attaching the mailbox to the new post, and no other payment will be made.

ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL

Materials

(*****)

Roadway decorative luminaires shall be factory painted black and consists of the following:

Pole: 11 ga, 9” Base Dia., Steel Fluted Tapered Pole, 0.14”/ft taper, 35’-0” height with Visco Model 20C finial or approved equal.

Mast Arm: 2” Sch. 40 Steel Pipe, 2 3/8” O.D. x 0.154” Wall, 6’-0” length with G1 arm assembly.

Luminaires: 250W HPS Cobra Head provided by Snohomish County PUD No. 1

Base:

Lower Base Section: Visco Model 10A/9 or approved equal

Upper Base Section: Visco Model 11A/9 with removable access door or approved equal

Base Collar: Visco Model 12A/9 or approved equal

Hanging Basket Arms: Mounted at 12’-0” high with an 18” reach.

Receptacle: 15A, 120V Duplex Receptacle with weather proof cover mounted at 13’-0”

Banner Arms: 1.90” O.D. Banner Arms and Clamp with a 3” Dia. Brass ball at the end. Top arm mounted at 19’-0” and Bottom Arm mounted at 14’-0”.

Pedestrian Luminaires shall be factory painted black and consist of the following:

Pole: 11 ga, 5 3/4” Base Dia., Steel Fluted Tapered Pole, 0.14”/ft taper, 14’-0” with 19/21 EVR Capital or approved equal.

Luminaire: Visco Model #199 Polycarbonate Globe or approved equal with 70W, HPS Type I luminaire.

Base:

Lower Base Section: Visco Model 10A or approved equal

Upper base Section: Visco Model 11A/9

Base Collar: Visco Model 12A/9 or approved equal

The Contractor shall coordinate between the City and the manufacturer to provide the manufacturer to provide the manufacturer with banner size in order that the manufacturer can provide calculation for structural integrity of the pole and breakaway hardware/devices (breakaway hardware/devices to be purchased independently by the City.)

Sign Holders shall be mounted to each pedestrian luminaire pole with two self tapping screws supplied by the Contractor. The contractor shall field drill the holes for the self tapping screws at the locations determined by the Engineer.

(*****)

Fiber Optic

Fiber Optic Conduit shall be Rigid PVC Conduit per Standard Specification 9-29.1(4)A

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(January 3, 2011 WSDOT GSP)

Traffic Signal Standards

Traffic signal standards shall be furnished and installed in accordance with the methods and materials noted in the applicable Standard Plans, pre-approved plans, or special design plans.

All welds shall comply with the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. Welding inspection shall comply with Section 6-03.3(25)A Welding Inspection.

Hardened washers shall be used with all signal arm connecting bolts instead of lockwashers. All signal arm AASHTO M 164 connecting bolts tightening shall comply with Section 6-03.3(33).

Traffic signal standard types and applicable characteristics are as follows:

Type PPB Pedestrian push button posts shall conform to Standard Plan J-20.10 or to one of the following pre-approved plans:

<u>Fabricator</u>	<u>Drawing No.</u>
Northwest Signal Supply Inc.	NWS 3540 Rev. 1 and NWS 3540B Rev. 1
Valmont Ind. Inc.	DB00655 Rev. G Sht. 1 & 2
Ameron Pole Prod. Div.	M3723 Rev. G
Union Metal Corp.	TA-10035 Rev. R3
West Coast Engineering Group	WSDOT-PP-01 Rev. 1
KW Industries	10-200-PED-1 Rev. 5, Sheets 1 and 2

Type PS Pedestrian signal standards shall conform to Standard Plan J-20.16 or to one of the following pre-approved plans:

<u>Fabricator</u>	<u>Drawing No.</u>
Northwest Signal Supply Inc.	NWS 3540 Rev. 1 and NWS 3540B Rev. 1
Valmont Ind. Inc.	DB00655 Rev.G Sht. 1 & 2
Ameron Pole Prod. Div.	M3723 Rev. G or W3539 Rev. B
Union Metal Corp.	TA-10025 Rev. R14

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	West Coast Engineering Group	WSDOT-PP-02 Rev. 1
	American Pole Structures, Inc.	WS-PP-03 Rev. 1C
	KW Industries	10-200-PED-1 Rev. 5, Sheets 1 and 2
Type I	Type I vehicle signal standards shall conform to Standard Plan J-21.15 or to one of the following pre-approved plans:	
	<u>Fabricator</u>	<u>Drawing No.</u>
	Northwest Signal Supply Inc.	NWS 3540 Rev. 1 and NWS 3540B Rev. 1
	Valmont Ind. Inc.	DB00655 Rev. G Sht. 1 & 2
	Ameron Pole Prod. Div	M3723 Rev. G or W3539 Rev. B
	Union Metal Corp.	TA-10025 Rev. R14
	West Coast Engineering Group	WSDOT-PP-02 Rev. 1
	American Pole Structures, Inc.	WS-PP-03 Rev. 1C
	KW Industries	10-200-PED-1 Rev. 5, Sheets 1 and 2
Type FB	Type FB flashing beacon standard shall conform to Standard Plan J-21.16 or the following pre-approved plan:	
	<u>Fabricator</u>	<u>Drawing No.</u>
	Union Metal Corp	50200-B58 Rev. R4
	Valmont Ind. Inc.	DB00655 Rev.G Sht. 1 & 2
	Ameron Pole Prod. Div.	W3539 Rev. B
	Northwest Signal Supply, Inc.	NWS 3540 Rev. 1 and NWS 3540B Rev. 1
	KW Industries	10-200-PED-1 Rev. 5, Sheets 1 and 2

1	Type RM	Type RM ramp meter standard shall conform to Standard Plan J-22.15 or the following pre-approved plan:	
2			
3			
4		<u>Fabricator</u>	<u>Drawing No.</u>
5		Union Metal Corp	50200-B58 Rev. R4
6			
7		Valmont Ind. Inc.	DB00655 Rev. G
8			Sht. 1 & 2
9			
10		Ameron Pole	W3539 Rev. B
11		Prod. Div.	
12			
13		Northwest Signal	NWS 3540 Rev. 1 and
14		Supply, Inc.	NWS 3540B Rev. 1
15			
16		KW Industries	10-200-PED-1
17			Rev. 5, Sheets 1 and 2
18			
19	Type CCTV	Type CCTV camera pole standards shall conform to one of the	
20		following pre-approved Plans:	
21			
22		<u>Fabricator</u>	<u>Drawing No.</u>
23		Valmont Industries, Inc.	DB 00759 Rev. L
24		Ameron Pole Product Div.	W6CCTV1 Rev D
25		West Coast Engineering Group	AP-WSDOT-CP-01-Rev. 3
26		American Pole Structures, LLC	WS-CP-01 Rev. 1C
27			Sht. 1 & 2
28		Union Metal Corporation	Drawing No P33-B317, Rev R3,
29			Sheets1, 2 of 2
30		Union Metal Corporation	Drawing No. P33-B318, Rev. R6
31			Sheets 1, 2 of 2
32		Northwest Signal Supply, Inc.	Drawing No. NWS 3545 (For
33			Type CCTV)
34		KW Industries	Drawing No. 10-200-CAM-1
35			Rev. 6, Sheets 1 and 2
36			
37	Type II	Characteristics:	
38			
39		Luminaire mounting height	N.A.
40		Luminaire arms	N.A.
41		Luminaire arm length	N.A.
42		Signal arms	One Only
43			
44		Type II standards shall conform to one of the following pre-	
45		approved plans, provided all other requirements noted herein	
46		have been satisfied. Maximum (x) (y) (z) signal arm loadings in	
47		cubic feet are noted after fabricator.	
48			
49		Signal Arm	
50		<u>Length (max)</u>	<u>Fabricator-(x) (y) (z)</u>
51			<u>Drawing No.</u>
52		65 ft.	Valmont Ind. Inc.-(2894) DB00625-Rev.N,

1			Shts. 1, 2 & 3
2			
3	65 ft.	Union Metal Corp. (2900)	71026-B86 Rev. R7
4			Shts. 1, 2, & 3
5			
6	65 ft.	Ameron Pole-(2900)	W3724-1 Rev. I &
7		Prod. Div.	W3724-2 Rev. F
8			
9	65 ft.	Northwest Signal-(2802)	NWS 3500 Rev. 3
10		Supply Inc.	or NWS 3500B
11			Rev. 3
12			
13	45 ft.	American Pole(1875)	WS-T2-L Rev. 6
14		Structures, Inc.	
15			
16	65 ft.	American Pole (2913)	WS-T2-H Rev. 6
17		Structures, Inc.	
18			
19	65 ft.	KW Industries	10-200-TSP-4 Rev. 4,
20			Sheets 1, 2, and 3
21			
22	65 ft	West Coast	WSDOT-TS-01 Rev. 3
23		Engineering Group	Sheets 1, 2, and 3
24			
25			
26	65 ft.	Maico	WSDOTMA Rev. 3
27		Industries (2894)	Sheets 1, 2 and 3
28			
29	Type III	Characteristics:	
30			
31		Luminaire mounting height	30 ft.,
32			35 ft.,
33			40 ft.,
34			or 50 ft.
35		Luminaire arms	One Only
36		Luminaire arm type	Type 1
37		Luminaire arm length (max.)	16 ft.
38		Signal arms	One Only
39			
40		Type III standards shall conform to one of the following pre-	
41		approved plans, provided all other requirements noted herein	
42		have been satisfied. Maximum (x) (y) (z) signal arm loadings in	
43		cubic feet are noted after fabricator.	
44			
45		Signal Arm	
46		<u>Length (max)</u>	<u>Fabricator-(x) (y) (z)</u>
47			<u>Drawing No.</u>
48	65 ft.	Valmont Ind. Inc.-(2947)	DB00625-Rev.N,
49			Shts. 1, 2 & 3
50			and"J" luminaire arm
51			
52	65 ft.	Union Metal Corp. (2900)	71026-B87 Rev. R8

1			Shts. 1, 2 & 3
2			
3	65 ft.	Ameron Pole-(2900)	W3724-1 Rev. I &
4		Prod. Div.	W3724-2 Rev. F
5			and "J" luminaire arm
6			
7	65 ft.	Northwest Signal-(2802)	NWS 3500 Rev. 3
8		Supply Inc.	or NWS 3500B
9			Rev. 3
10			
11	45 ft.	American Pole (1875)	WS-T3J-L, Sht. 1 of 2
12		Structures, Inc.	Rev. 9, and Sht. 2 of 2 Rev. 4
13			
14	65 ft.	American Pole (2913)	WS-T3J-H, Sht. 1 of 2
15		Structures, Inc.	Rev. 8, and Sht. 2 of 2 Rev. 4
16			
17	65 ft	West Coast	WSDOT-TS-01 Rev. 3
18		Engineering Group	Sheets 1, 2, and 3
19			
20	65 ft.	Maico	WSDOTMA Rev. 3
21		Industries (2947)	Sheets 1, 2 and 3
22			and "J" luminaire arm
23			
24	65 ft.	KW Industries	10-200-TSP-2 Rev. 4,
25			Sheets 1, 2, and 3
26			
27	Type IV	Type IV strain pole standards shall be consistent with details in	
28		the plans and Standard Plan J-7c or one of the following pre-	
29		approved plans:	
30			
31		<u>Fabricator</u>	<u>Drawing No.</u>
32		Northwest Signal	NWS 3520 Rev. 1or NWS 3520B Rev. 1,
33		Supply Inc.	
34			
35		Valmont Ind. Inc.	5000-4
36			
37		Ameron Pole	M3650 Rev. D
38		Prod. Div.	
39			
40		Union Metal Corp.	EA-10224 Rev. R8
41			
42		American Pole	9000-12-037 Rev. A
43		Structures, Inc.	
44			
45		Maico Industries	WA-SP-4 Rev.2, Sheets 1 and 2 of 2
46			
47		KW Industries	10-200-SP-1 Rev. 4,
48			Sheets 1 and 2
49			
50		KW Industries	10-200-SP-2 Rev. 5,
51			Sheets 1 and 2
52			

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Type V Type V combination strain pole and lighting standards shall be consistent with details in the plans and Standard Plan J-7c or one of the following pre-approved plans:

<u>Fabricator</u>	<u>Drawing No.</u>
Northwest Signal Supply Inc.	NWS 3520 Rev. 1 or NWS 3520B Rev. 1
Valmont Ind. Inc.	5000-4
Ameron Pole Prod. Div.	M3650 Rev. D
Union Metal Corp.	EA-10225, Rev. R8 Shts. 1 & 2
American Pole Structures, Inc.	9020-12-007 Rev. B
Maico Industries	WA-SP-5 Rev. 2 , Sheets 1, 2 & 3 and "J" luminaire arm

The luminaire arm shall be Type 1, 16 foot maximum and the luminaire mounting height shall be 40 feet or 50 feet as noted in the plans.

Type SD Type SD standards require special design. All special design shall be based on the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals and pre-approved plans and as follows:

1. A 90 mph wind loading shall be used.
2. The Design Life and Recurrence Interval shall be 50 years for luminaire support structures.
3. Fatigue design shall conform to AASHTO Section 11, Table 11-1 using fatigue category III.

Complete calculations for structural design, including anchor bolt details, shall be prepared by a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural Engineering or by an individual holding valid registration in another state as a civil or structural Engineer.

All shop drawings and the cover page of all calculation submittals shall carry the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration. The cover page shall include the contract number, contract title, and sequential index to calculation page numbers. Two copies of the associated design calculations shall be submitted for approval along with shop drawings.

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Details for handholes and luminaire arm connections are available from the Bridges and Structures Office.

Foundations for various types of standards shall be as follows:

Type PPB	As noted on Standard Plan J-20.10.
Type PS	As noted on Standard Plan J-21.10.
Type I	As noted on Standard Plan J-21.10.
Type FB	As noted on Standard Plan J-21.10.
Type RM	As noted on Standard Plan J-21.10.
Type CCTV	As noted in the Plans.
Type II	As noted in the Plans.
Type III	As noted in the Plans.
Type IV	As noted in the Plans and Standard Plan J-7c.
Type V	As noted in the Plans and Standard Plan J-7c.
Type SD	As noted in the Plans.

Equipment List And Drawings

Section 8-20.2(1) is supplemented with the following:

(March 13, 1995 WSDOT GSP)

If traffic signal standards, strain pole standards, or combination traffic signal and lighting standards are required, final verified dimensions including pole base to signal mast arm connection point, pole base to light source distances (H1), mast arm length, offset distances to mast arm mounted appurtenances, and orientations of pole mounted appurtenances will be furnished by the Engineer as part of the final approved shop drawings prior to fabrication.

(*****)

Section 8-20.5 is supplemented with the following:

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

“Fiber Optic Handhole”, per each

The unit contract price for “Fiber Optic Handhole” shall be full pay for tools, labor, equipment, and materials necessary to construct the handhole, including sawcutting, coring, excavation, handhole, and backfill, and no other payment will be made.

“Fiber Optic Conduit”, per each

The unit contract price for “Fiber Optic Conduit” shall be full pay for tools, labor, equipment, and materials necessary to construct the conduit, including providing and installing sleeving, sawcutting, coring, excavation, boring the conduit under railroad tracks, and backfill, and no other payment will be made.

PERMANENT SIGNING

Sign Removal

(April 3, 2012 COA GSP)

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The fourth and fifth sentences of Section 8-21.3(4) are replaced with the following:

All removed signs shall remain the property of the City. All removed signs shall be returned to:

City of Arlington Maintenance Shop
6205 188th PL NE
Arlington, WA 98223

Identification Plates

(June 2, 2008 COA GSP)

Section 8-21.3(9) G, Identification Plates, is deleted.

ROCK AND GRAVITY BLOCK WALL AND GABION CRIBBING

(*****)

Section 8-24.1 is supplemented with the following:

Work includes furnishing and installing modular concrete block retaining wall units to the lines and grades designated on the construction drawings and as specified herein.

Contractor shall check the materials upon delivery to assure proper material has been received.

Contractor shall prevent excessive mud, cementitious material, and like construction debris from coming in contact with the materials.

Contractor shall protect the materials from damage. Damaged material shall not be incorporated in the project (ASTM C1372).

The Contractor shall submit a detailed wall layout plan for approval by the engineer. The wall layout plan shall include, at a minimum:

- Types of blocks to be used
- Detailed block layout, including plan for stepping up or down block levels
- Wall reinforcement details and calculations, if necessary. Structural calculations shall be signed by a licensed professional engineer.

(*****)

Section 8-24.2 is supplemented with the following:

Modular Wall Units

A. Wall units shall be capable of providing the Abby pattern, as shown by Allan Block Europa series, as produced by a licensed manufacturer.

B. Wall units shall have minimum 28 day compressive strength of 3000 psi (20.7 MPa) in accordance with ASTM C1372. The concrete units shall have adequate freeze-thaw protection with an average absorption rate in accordance with ASTM C1372 or an average absorption rate of 7.5 lb/ft³ (120 kg/m³) for northern climates and 10 lb/ft³ (160 kg/m³) for southern climates.

- 1 C. Exterior dimensions shall be uniform and consistent. Maximum dimensional
2 deviations on the height of any two units shall be 0.125 in. (3 mm).
3 D. Wall units shall provide a minimum of 110 lbs total weight per square foot of wall face
4 area (555 kg/m²). Fill contained within the units may be considered 80% effective weight.
5 E. Exterior face shall be textured. Color as specified by owner.
6 F. Art Inset blocks are required at the locations shown in the plans. The art inset blocks
7 shall have a face finish similar to that of the other modular blocks.

8 **Wall Rock**

- 9 A. Material must be well-graded compactable aggregate, 0.25 in. to 1.5 in., (6 mm - 38
10 mm) with no more than 10% passing the #200 sieve. (ASTM D422)
11 B. Material behind and within the blocks may be the same material.

12
13 **Infill Soil**

- 14 A. Infill material shall be site excavated soils when approved by the on-site soils
15 engineer unless otherwise specified in the drawings. Unsuitable soils for backfill (heavy clays
16 or organic soils) shall not be used in the reinforced soil mass. Fine grained cohesive soils
17 ($\phi < 31$) may be used in wall construction, but additional backfilling, compaction and water
18 management efforts are required. Poorly graded sands, expansive clays and/or soils with a
19 plasticity index (PI) >20 or a liquid limit (LL) >40 should not be used in wall construction.
20 B. The infill soil used must meet or exceed the designed friction angle and description
21 noted on the design cross sections, and must be free of debris and consist of one of the
22 following inorganic USCS soil types: GP, GW, SW, SP meeting the following gradation as
23 determined in accordance with ASTM D422.

24

Sieve Size	Percent Passing
4 inch (100 mm)	100 – 75
No. 4 (4.75 mm)	100 – 20
No. 40 (0.425 mm)	0 - 60
No. 200 (0.075 mm)	0 - 35

- 30
31 C. Where additional fill is required, contractor shall submit sample and specifications to
32 the wall design engineer or the onsite soils engineer for approval and the approving engineer
33 must certify that the soils proposed for use has properties meeting or exceeding original
34 design standards.

35
36 (*****)

37 Section 8-24.3 is supplemented with the following:

38 **Excavation**

- 39 A. Contractor shall excavate to the lines and grades shown on the construction
40 drawings. Contractor shall use caution not to over-excavate beyond the lines shown, or to
41 disturb the base elevations beyond those shown.
42 B. Contractor shall verify locations of existing structures and utilities prior to excavation.
43 Contractor shall ensure all surrounding structures are protected from the effects of wall
44 excavation.

45
46 **Foundation Soil Preparation**

- 47 A. Foundation soil shall be defined as any soils located beneath a wall.
48 B. Foundation soil shall be excavated as dimensioned on the plans and compacted to a
49 minimum of 95% of Standard Proctor (ASTM D698) prior to placement of the base material.

1 C. Foundation soil shall be examined by the on-site soils engineer to ensure that the
2 actual foundation soil strength meets or exceeds assumed design strength. Soil not meeting
3 the required strength shall be removed and replaced with acceptable material.

4

5 **Base**

6 A. The base material shall be the same as the Wall Rock material (Section 2.2) or a low
7 permeable granular material.

8 B. Base material shall be placed as shown on the construction drawing. Top of base
9 shall be located to allow bottom wall units to be buried to proper depths as per wall heights
10 and specifications.

11 C. Base material shall be installed on undisturbed native soils or suitable replacement
12 fills compacted to a minimum of 95% Standard Proctor (ASTM D698).

13 D. Base shall be compacted at 95% Standard Proctor (ASTM D698) to provide a level
14 hard surface on which to place the first course of blocks. The base shall be constructed to
15 ensure proper wall embedment and the final elevation shown on the plans. Well-graded
16 sand can be used to smooth the top 1/2 in. (13 mm) on the base material.

17 E. Base material shall be a 4 in. (100 mm) minimum depth for walls under 4 ft (1.2 m)
18 and a 6 in. (150 mm) minimum depth for walls over 4 ft (1.2 m).

19

20 **Unit Installation**

21 A. The first course of wall units shall be placed on the prepared base with the raised lip
22 facing up and out and the front edges tight together. The units shall be checked for level and
23 alignment as they are placed.

24 B. Ensure that units are in full contact with base. Proper care shall be taken to develop
25 straight lines and smooth curves on base course as per wall layout.

26 C. Fill all cores and cavities and a minimum of 12 in. (300 mm) behind the base course
27 with wall rock. Use infill soils behind the wall rock and approved soils in front of the base
28 course to firmly lock in place. Check again for level and alignment. Use a plate compactor to
29 consolidate the area behind the base course. All excess material shall be swept from top of
30 units.

31 D. Install next course of wall units on top of base course. Position blocks to be offset
32 from seams of blocks below. Perfect "running bond" is not essential, but a 3 in. (75 mm)
33 minimum offset is recommended. Check each block for proper alignment and level. Fill all
34 cavities in and around wall units and to a minimum of 12 in. (300 mm) depth behind block
35 with wall rock. For taller wall application the depth of wall rock behind the block should be
36 increased; walls from 15 ft (4.57 m) to 25 ft (7.62 m) should have a minimum of 2 ft (0.61 m)
37 and walls above 25ft (7.62 m) should have a minimum of 3 ft (0.9 m). Spread infill soil in
38 uniform lifts not exceeding 8 in. (200 mm) in uncompacted thickness and compact to 95% of
39 Standard Proctor (ASTM D698) behind the consolidation zone.

40 E. The consolidation zone shall be defined as 3 ft (0.9 m) behind the wall. Compaction
41 within the consolidation zone shall be accomplished by using a hand operated plate
42 compactor and shall begin by running the plate compactor directly on the block and then
43 compacting in parallel paths from the wall face until the entire consolidation zone has been
44 compacted. A minimum of two passes of the plate compactor are required with maximum lifts
45 of 8 in. (200 mm). Expansive or fine-grained soils may require additional compaction passes
46 and/or specific compaction equipment such as a sheepsfoot roller. Maximum lifts of 4 inches
47 (100 mm) may be required to achieve adequate compaction within the consolidation zone.
48 Employ methods using lightweight compaction equipment that will not disrupt the stability or
49 batter of the wall. Final compaction requirements in the consolidation zone shall be
50 established by the engineer of record.

51 F. Install each subsequent course in like manner. Repeat procedure to the extent of wall
52 height.

1 G. As with any construction work, some deviation from construction drawing alignments
2 will occur. Variability in construction of SRWs is approximately equal to that of cast-in-place
3 concrete retaining walls. As opposed to cast-in-place concrete walls, alignment of SRWs can
4 be simply corrected or modified during construction. Based upon examination of numerous
5 completed SRWs, the following recommended minimum tolerances can be achieved with
6 good construction techniques.
7 Vertical Control - ± 1.25 in. (32 mm) max. over 10 ft (3 m) distance
8 Horizontal Location Control - straight lines ± 1.25 in. (32 mm) over a 10 ft (3 m) distance.
9 Rotation - from established plan wall batter: 2.0°
10 Bulging - 1.0 in. (25 mm) over a 10 ft (3.0 m) distance

11

12 **Anti-Graffiti Coating**

13 The entire exposed face of the wall shall be coated with US Coating Solutions Ant-Graffiti
14 System. The coating shall be applied per the manufacturer's recommendation, including
15 sealing of the wall prior to applying the coating.

16

17 **Additional Construction Notes**

18 A. Filter fabric use is not suggested for use with cohesive soils. Clogging of such fabric
19 creates unacceptable hydrostatic pressures in soil reinforced structures. When filtration is
20 deemed necessary in cohesive soils, use a three dimensional filtration system of clean sand
21 or filtration aggregate.

22 B. Embankment protection fabric is used to stabilize rip rap and foundation soils in
23 water applications and to separate infill materials from the retained soils. This fabric should
24 permit the passage of fines to preclude clogging of the material. Embankment protection
25 fabric shall be a high strength polypropylene monofilament material designed to meet or
26 exceed typical Corps of Engineers plastic filter fabric specifications (CW-02215); stabilized
27 against ultraviolet (UV) degradation and typically exceeding the values in Table 1, page 8 of
28 the AB Spec Book.

29 C. Water management is of extreme concern during and after construction. Steps must
30 be taken to ensure that drain pipes are properly installed and vented to daylight and a
31 grading plan has been developed that routes water away from the retaining wall location.
32 Site water management is required both during construction of the wall and after completion
33 of construction.

34

35 (*****)

36 Section 8-24.5 is supplemented with the following:

37

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

40

41 "Modular Block Wall", per SF

42 The unit contract price for "Modular Block Wall" shall be full pay for tools, labor, equipment,
43 and materials necessary to construct the wall, including excavation, wall construction, and
44 backfill, anti-graffiti coating, and no other payment will be made.

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**DIVISION 9
MATERIALS**

STRUCTURAL STEEL AND RELATED MATERIALS

9-06.18 Metal Bridge Railing

(*****)

Section 9-06.18 is supplemented with the following:

Pedestrian Handrail shall anodized aluminum per Snohomish County Std. Plan 4-200, 4-2-2, and 4-204.

EROSION CONTROL AND ROADSIDE PLANTING

(January 14, 2011 COA GSP)

Section 9-14.4(2) is replaced with the following:

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

All HECPs shall be 100% biodegradable and in a dry condition free of noxious weeds, seeds, chemical printing ink, germination inhibitors, herbicide residue, chlorine bleach, rock, metal, plastic, and other materials detrimental to plant life. The HECP shall be suitable for spreading with a hydroseeder.

All HECPs shall be furnished premixed by the manufacturer with Type A or Type B Tackifier as specified in 9-14.4(7). Under no circumstances will field mixing of additives or components be acceptable.

The Contractor shall provide test results, dated within five years prior to the date of application, from an independent, accredited laboratory, as approved by the Engineer, showing the product meets the following requirements:

1 **STANDARD PLANS**

2 **January 9, 2012**

3 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-
4 01 transmitted under Publications Transmittal No. PT 09-013, effective January 2, 2012 is
5 made a part of this contract.
6

7 The Standard Plans are revised as follows:
8

9 B-10.20 and B10.40

10 Substitute "step" in lieu of "handhold" on plan
11

12 C-14a

13 SECTION B, callout – 1½" PVC CONDUIT (TYP.) is revised to read: 1¼" PVC
14 CONDUIT (TYP.) callout (mark) 8 #9 ~ 36" (TYP.) is revised to read: callout (mark) 8 #8
15 ~ 36" (TYP.) EPOXY BAR EXPANSION JOINT DETAIL, callout (mark) W #9 (epoxy
16 coated symbol) ~ 36" (TYP.) is revised to read: callout (mark) 8 #8 (epoxy coated
17 symbol) ~ 36" (TYP.)
18

19 C-23.60

20 Note 4. For anchor post assembly details, see Standard Plan C-1b. Use detail on this
21 plan for wood breakaway post. (No block on this post)
22

23 Is revised as follows:
24

25 Note 4. For anchor post assembly details, refer to standard plan C-1b for Sim.
26 Installation, with the exception of using the wood breakaway post detail, this plan. (No
27 block on this post). Typical for both steel or wood guardrail runs.
28

29 G-24.40

30 Existing callout - CORNER BOLT (TYP.)

31 New callout - CORNER BOLT OR SHOULDER BOLT (TYP.)
32

33 J-1f

34 Note 2, reference to J-7d is revised to J-15.15

35 References to J-9a (3 instances) are revised to J-60.05
36

37 J-3b

38 Sheet 2 of 2, Plan View of Service Cabinet, Boxed Note, "SEE STANDARD PLAN J-
39 6C..." is revised to read: "SEE STANDARD PLAN J-10.10..."

40 Sheet 2 of 2, Plan View of Service Cabinet Notes, references to Std. Plan J-9a are
41 revised to J-60.05 (3 instances).
42

43 J-7c

44 Note 3, reference to J-7d is revised to J-15.15
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46 J-16b

47 Key Note 1, reference to J-16a is revised to J-40.36
48

49 J-16c

50 Key Note 1, reference to J-16a is revised to J-40.36
51

1 J-20.10
2 Sheet 2, 2-Way Mounting Angle Detail,
3 Dimension 1.625" is revised to 1.8125"
4 Dimension 2.375" is revised to 2.1875"
5
6 J-75.40
7 Monotube Sign Structure, elevation, callout – EQUIPMENT GROUNDING
8 CONDUCTOR ~ SIZE PER NEC. MINIMUM SIZE # 8
9 Is revised to read; EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC
10 minimum size # 4 AWG
11 Detail C, callout– EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL
12 REINFORCING BAR, SIZE PER NEC MIN. SIZE # 8
13 Is revised to read; EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL
14 REINFORCING BAR, SIZE PER NEC minimum size # 4 AWG
15
16 J-75.45
17 elevation, callout – EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC.
18 MINIMUM SIZE # 8
19
20 Is revised to read:
21
22 EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC minimum size # 4 AWG
23
24 Detail D, callout– EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL
25 REINFORCING BAR, SIZE PER NEC. MIN. SIZE # 8
26
27 Is revised to read:
28
29 EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR,
30 SIZE PER NEC minimum size # 4 AWG
31
32 K-80.30
33 In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std.
34 Plan K-80.35
35
36 L-20.10, Sheet 1
37 Delete all references to tension cable and substitute tension wire. Add knuckled selvage
38 is required on the top edge of the fence fabric.
39
40 L-20.10, Sheet 2
41 Delete all references to tension cable and substitute tension wire. All rope thimbles, wire
42 rope clips and seizing are not required.
43
44 L-30.10, Sheet 1
45 Delete all references to tension cable and substitute tension wire.
46
47 L-30.10, Sheet 2
48 Delete all references to tension cable and substitute tension wire. All rope thimbles, wire
49 rope clips and seizing are not required.
50
51 The following are the Standard Plan numbers applicable at the time this project was
52 advertised. The date shown with each plan number is the publication approval date

1 shown in the lower right-hand corner of that plan. Standard Plans showing different
2 dates shall not be used in this contract.

3

A-10.10-00.....8/7/07	A-30.35-00.....10/12/07	A-50.20-01.....9/22/09
A-10.20-00.....10/5/07	A-40.00-00.....8/11/09	A-50.30-00.....11/17/08
A-10.30-00.....10/5/07	A-40.10-02.....6/2/11	A-50.40-00.....11/17/08
A-20.10-00.....8/31/07	A-40.15-00.....8/11/09	A-60.10-01.....10/14/09
A-30.10-00.....11/8/07	A-40.20-00.....9/20/07	A-60.20-02.....6/2/11
A-30.15-00.....11/8/07	A-40.50-01.....6/2/11	A-60.30-00.....11/8/07
A-30.30-01.....6/16/11	A-50.10-00.....11/17/08	A-60.40-00.....8/31/07

4

B-5.20-01.....6/16/11	B-30.50-00.....6/01/06	B-75.20-01.....6/10/08
B-5.40-01.....6/16/11	B-30.70-02.....6/16/11	B-75.50-01.....6/10/08
B-5.60-01.....6/16/11	B-30.80-00.....6/8/06	B-75.60-00.....6/8/06
B-10.20-00.....6/1/06	B-30.90-01.....9/20/07	B-80.20-00.....6/8/06
B-10.40-00.....6/1/06	B-35.20-00.....6/8/06	B-80.40-00.....6/1/06
B-10.60-00.....6/8/06	B-35.40-00.....6/8/06	B-82.20-00.....6/1/06
B-15.20-00.....6/1/06	B-40.20-00.....6/1/06	B-85.10-01.....6/10/08
B-15.40-00.....6/1/06	B-40.40-01.....6/16/10	B-85.20-00.....6/1/06
B-15.60-00.....6/1/06	B-45.20-00.....6/1/06	B-85.30-00.....6/1/06
B-20.20-01.....11/21/06	B-45.40-00.....6/1/06	B-85.40-00.....6/8/06
B-20.40-02.....6/10/08	B-50.20-00.....6/1/06	B-85.50-01.....6/10/08
B-20.60-02.....6/10/08	B-55.20-00.....6/1/06	B-90.10-00.....6/8/06
B-25.20-00.....6/8/06	B-60.20-00.....6/8/06	B-90.20-00.....6/8/06
B-25.60-00.....6/1/06	B-60.40-00.....6/1/06	B-90.30-00.....6/8/06
B-30.10-00.....6/8/06	B-65.20-00.....6/1/06	B-90.40-00.....6/8/06
B-30.20-01.....11/21/06	B-65.40-00.....6/1/06	B-90.50-00.....6/8/06
B-30.30-00.....6/1/06	B-70.20-00.....6/1/06	B-95.20-01.....2/3/09
B-30.40-00.....6/1/06	B-70.60-00.....6/1/06	B-95.40-00.....6/8/06

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C-1.....6/16/11	C-5.....6/16/11	C-20.14-01.....10/14/09
C-1a.....10/14/09	C-6.....5/30/97	C-20.15-00.....10/14/09
C-1b.....6/16/11	C-6a.....10/14/09	C-20.18-00.....10/14/09
C-1c.....5/30/97	C-6c.....1/6/00	C-20.19-00.....10/14/09
C-1d.....10/31/03	C-6d.....5/30/97	C-20.40-02.....6/16/11
C-2.....1/6/00	C-6f.....7/25/97	C-20.42-02.....6/16/11
C-2a.....6/21/06	C-7.....6/16/11	C-20.45.00.....6/16/11
C-2b.....6/21/06	C-7a.....6/16/11	C-22.14-02.....6/16/11
C-2c.....6/21/06	C-8.....2/10/09	C-22.16-02.....6/16/11
C-2d.....6/21/06	C-8a.....7/25/97	C-22.40-02.....6/16/10
C-2e.....6/21/06	C-8b.....6/27/11	C-22.45.00.....6/16/11
C-2f.....3/14/97	C-8e.....2/21/07	C-23.60-01.....10/14/09
C-2g.....7/27/01	C-8f.....6/30/04	C-25.18-02.....6/16/11
C-2h.....3/28/97	C-10.....6/3/10	C-25.20-04.....10/14/09
C-2i.....3/28/97	C-13.....7/3/08	C-25.22-03.....10/14/09
C-2j.....6/12/98	C-13a.....7/3/08	C-25.26-01.....10/14/09
C-2k.....7/27/01	C-13b.....7/3/08	C-25.80-01.....7/3/08
C-2n.....7/27/01	C-13c.....7/3/08	C-28.40-01.....6/16/11
C-2o.....7/13/01	C-14a.....7/3/08	C-40.14-01.....6/3/10
C-2p.....10/31/03	C-14b.....7/26/02	C-40.16-01.....6/3/10
C-3.....6/27/11	C-14c.....7/3/08	C-40.18-01.....10/14/09
C-3a.....10/4/05	C-14d.....7/3/08	C-85.14-00.....6/16/11

	C-3b.....6/27/11	C-14e.....7/3/08	C-85.15-00.....6/16/11
	C-3c.....6/27/11	C-15a.....7/3/08	C-85.16-00.....6/16/11
	C-4b.....6/8/06	C-15b.....7/3/08	C-85-18-00.....6/16/11
	C-4e.....2/20/03	C-16a.....6/3/10	C-85.20-00.....6/16/11
	C-4f.....6/16/11	C-16b.....6/3/10	C-90.10-00.....7/3/08
1	D-2.04-00.....11/10/05	D-2.48-00.....11/10/05	D-3.16-00.....6/16/11
	D-2.06-01.....1/6/09	D-2.64-01.....1/6/09	D-4.....12/11/98
	D-2.08-00.....11/10/05	D-2.66-00.....11/10/05	D-6.....6/19/98
	D-2.14-00.....11/10/05	D-2.68-00.....11/10/05	D-10.10-01.....12/2/08
	D-2.16-00.....11/10/05	D-2.80-00.....11/10/05	D-10.15-01.....12/2/08
	D-2.18-00.....11/10/05	D-2.82-00.....11/10/05	D-10.20-00.....7/8/08
	D-2.20-00.....11/10/05	D-2.84-00.....11/10/05	D-10.25-00.....7/8/08
	D-2.32-00.....11/10/05	D-2.86-00.....11/10/05	D-10.30-00.....7/8/08
	D-2.34-01.....1/6/09	D-2.88-00.....11/10/05	D-10.35-00.....7/8/08
	D-2.36-02.....1/6/09	D-2.92-00.....11/10/05	D-10.40-01.....12/2/08
	D-2.42-00.....11/10/05	D-3.....6/2/11	D-10.45-01.....12/2/08
	D-2.44-00.....11/10/05	D-3.10-00.....6/16/10	D-15.10-01.....12/2/08
	D-2.60-00.....11/10/05	D-3.11-00.....6/16/10	D-15.20-02.....6/2/11
	D-2.62-00.....11/10/05	D-3.17-00.....6/16/11	D-15.30-01.....12/02/08
	D-2.46-00.....11/10/05	D-3.15-00.....6/16/11	
2	E-1.....2/21/07	E-4.....8/27/03	
	E-2.....5/29/98	E-4a.....8/27/03	
3	F-10.12-02.....6/16/11	F-10.62-01.....9/05/07	F-40.15-01.....6/3/10
	F-10.16-00.....12/20/06	F-10.64-02.....7/3/08	F-40.16-01.....6/3/10
	F-10.18-00.....6/27/11	F-30.10-01.....6/3/10	F-45.10-00.....6/3/10
	F-10.40-01.....7/3/08	F-40.12-01.....6/3/10	F-80.10-01.....6/3/10
	F-10.42-00.....1/23/07	F-40.14-01.....6/3/10	
4	G-10.10-00.....9/20/07	G-24.60-01.....6/16/11	G-70.20-01.....6/27/11
	G-20.10-00.....9/20/07	G-25.10-02.....6/27/11	G-70.30-01.....6/27/11
	G-22.10-01.....7/3/08	G-30.10-01.....6/16/11	G-90.10-01.....5/11/11
	G-24.10-00.....11/8/07	G-50.10-00.....11/8/07	G-90.20-01.....6/27/11
	G-24.20-00.....11/8/07	G-60.10-01.....6/27/11	G-90.30-01.....6/2/11
	G-24.30-00.....11/8/07	G-60.20-01.....6/27/11	G-90.40-01.....10/14/09
	G-24.40-01.....12/2/08	G-60.30-01.....6/27/11	G-95.10-01.....6/2/11
	G-24.50-00.....11/8/07	G-70.10-01.....6/27/11	G-95.20-02.....6/2/11
			G-95.30-02.....6/2/11
5	H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-00.....9/5/07
	H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-00.....9/5/07
	H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	H-70.30-01.....11/17/08
6	I-10.10-01.....8/11/09	I-30.40-00.....10/12/07	I-50.20-00.....8/31/07
	I-30.10-01.....8/11/09	I-30.50-00.....11/14/07	I-60.10-00.....8/31/07
	I-30.15-00.....8/11/09	I-40.10-00.....9/20/07	I-60.20-00.....8/31/07
	I-30.20-00.....9/20/07	I-40.20-00.....9/20/07	I-80.10-01.....8/11/09
	I-30.30-00.....9/20/07	I-50.10-00.....9/20/07	
7	J-1f.....6/23/00	J-21.20-00.....10/14/09	J-40.30-02.....5/11/11

J-3.....8/1/97	J-22.15-00.....10/14/09	J-40.36-00.....6/3/10
J-3b.....3/4/05	J-22.16-01.....6/3/10	J-40.37-00.....6/3/10
J-3c.....6/24/02	J-26.10-01.....6/27/11	J-40.38-00.....6/16/11
J-3d.....11/5/03	J-26.15-00.....6/16/10	J-50.10-00.....6/3/11
J-7c.....6/19/98	J-28.10-01.....5/11/11	J-50.11-00.....6/3/11
J-10.....7/18/97	J-28.22-00.....8/07/07	J-50.12-00.....6/3/11
J-10.10-01.....5/11/11	J-28.24-00.....8/07/07	J-50.15-00.....6/3/11
J-12.....2/10/09	J-28.26-01.....12/02/08	J-50.16-00.....6/3/11
J-15.15-00.....6/16/10	J-28.30-02.....6/27/11	J-50.20-00.....6/3/11
J-16b.....2/10/09	J-28.40-01.....10/14/09	J-50.25-00.....6/3/11
J-16c.....2/10/09	J-28.42-00.....8/07/07	J-50.30-00.....6/3/11
J-20.10-00.....10/14/09	J-28.45-01.....6/27/11	J-60.05-00.....6/16/11
J-20.15-00.....10/14/09	J-28.50-02.....6/2/11	J-60.13-00.....6/16/10
J-20.16-00.....10/14/09	J-28.60-01.....6/2/11	J-60.14-00.....6/16/10
J-20.20-00.....10/14/09	J-28.70-01.....5/11/11	J-75.10-01.....5/11/11
J-20.26-00.....10/14/09	J-29.10-00.....6/27/11	J-75.20-00.....2/10/09
J-21.10-02.....6/27/11	J-29.15-00.....6/27/11	J-75.30-01.....5/11/11
J-21.15-00.....10/14/09	J-29.16-00.....6/27/11	J-75.40-00.....10/14/09
J-21.16-00.....10/14/09	J-40.10-02.....5/11/11	J-75.45-00.....10/14/09
J-21.17-00.....10/14/09	J-40.20-00.....5/11/11	J-90.10-01.....6/27/11
		J-90.20-01.....6/27/11

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K-10.20-01.....10/12/07	K-26.40-01.....10/12/07	K-40.60-00.....2/15/07
K-10.40-00.....2/15/07	K-30.20-00.....2/15/07	K-40.80-00.....2/15/07
K-20.20-01.....10/12/07	K-30.40-01.....10/12/07	K-55.20-00.....2/15/07
K-20.40-00.....2/15/07	K-32.20-00.....2/15/07	K-60.20-02.....7/3/08
K-20.60-00.....2/15/07	K-32.40-00.....2/15/07	K-60.40-00.....2/15/07
K-22.20-01.....10/12/07	K-32.60-00.....2/15/07	K-70.20-00.....2/15/07
K-24.20-00.....2/15/07	K-32.80-00.....2/15/07	K-80.10-00.....2/21/07
K-24.40-01.....10/12/07	K-34.20-00.....2/15/07	K-80.20-00.....12/20/06
K-24.60-00.....2/15/07	K-36.20-00.....2/15/07	K-80.30-00.....2/21/07
K-24.80-01.....10/12/07	K-40.20-00.....2/15/07	K-80.35-00.....2/21/07
K-26.20-00.....2/15/07	K-40.40-00.....2/15/07	K-80.37-00.....2/21/07

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L-10.10-01.....6/16/11	L-40.10-01.....6/16/11	L-70.10-01.....5/21/08
L-20.10-01.....6/16/11	L-40.15-01.....6/16/11	L-70.20-01.....5/21/08
L-30.10-01.....6/16/11	L-40.20-01.....6/16/11	

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M-1.20-02.....6/3/11	M-9.60-00.....2/10/09	M-40.10-02.....5/11/11
M-1.40-02.....6/3/11	M-11.10-01.....1/30/07	M-40.20-00...10/12/07
M-1.60-02.....6/3/11	M-15.10-01.....2/6/07	M-40.30-00.....9/20/07
M-1.80-03.....6/3/11	M-17.10-02.....7/3/08	M-40.40-00.....9/20/07
M-2.20-02.....6/3/11	M-20.10-02.....6/3/11	M-40.50-00.....9/20/07
M-3.10-03.....6/3/11	M-20.20-01.....1/30/07	M-40.60-00.....9/20/07
M-3.20-02.....6/3/11	M-20.30-02.....10/14/09	M-60.10-01.....6/3/11
M-3.30-03.....6/3/11	M-20.40-02.....6/3/11	M-60.20-02.....6/27/11
M-3.40-03.....6/3/11	M-20.50-02.....6/3/11	M-65.10-02.....5/11/11
M-3.50-02.....6/3/11	M-24.20-01.....5/31/06	M-80.10-01.....6/3/11
M-5.10-02.....6/3/11	M-24.40-01.....5/31/06	M-80.20-00.....6/10/08
M-7.50-01.....1/30/07	M-24.50-00.....6/16/11	M-80.30-00.....6/10/08
M-9.50-01.....1/30/07	M-24.60-03.....5/11/11	

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APPENDIX A
PREVAILING WAGE

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: 04/02/2012

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Snohomish	Asbestos Abatement Workers	Journey Level	\$40.03	5D	1H	
Snohomish	Boilermakers	Journey Level	\$60.24	5N	1C	
Snohomish	Brick Mason	Brick And Block Finisher	\$41.41	5A	1M	
Snohomish	Brick Mason	Journey Level	\$48.27	5A	1M	
Snohomish	Brick Mason	Pointer-Caulker-Cleaner	\$48.27	5A	1M	
Snohomish	Building Service Employees	Janitor	\$9.04		1	
Snohomish	Building Service Employees	Shampooer	\$9.23		1	
Snohomish	Building Service Employees	Waxer	\$9.23		1	
Snohomish	Building Service Employees	Window Cleaner	\$13.48		1	
Snohomish	Cabinet Makers (In Shop)	Journey Level	\$15.08		1	
Snohomish	Carpenters	Acoustical Worker	\$48.63	5D	1M	
Snohomish	Carpenters	Bridge, Dock And Wharf Carpenters	\$48.47	5A	1M	
Snohomish	Carpenters	Carpenter	\$48.47	5D	1M	
Snohomish	Carpenters	Creosoted Material	\$48.57	5D	1M	
Snohomish	Carpenters	Floor Finisher	\$48.60	5D	1M	
Snohomish	Carpenters	Floor Layer	\$48.60	5D	1M	
Snohomish	Carpenters	Floor Sander	\$48.60	5D	1M	
Snohomish	Carpenters	Sawfiler	\$48.60	5D	1M	
Snohomish	Carpenters	Shingler	\$48.60	5D	1M	
Snohomish	Carpenters	Stationary Power Saw Operator	\$48.60	5D	1M	
Snohomish	Carpenters	Stationary Woodworking Tools	\$48.60	5D	1M	
Snohomish	Cement Masons	Journey Level	\$49.15	7A	1M	
Snohomish	Divers & Tenders	Diver	\$100.28	5D	1M	8A
Snohomish	Divers & Tenders	Diver On Standby	\$56.68	5D	1M	
Snohomish	Divers & Tenders	Diver Tender	\$52.23	5D	1M	
Snohomish	Divers & Tenders	Surface Rcv & Rov Operator	\$52.23	5D	1M	

Snohomish	Divers & Tenders	Surface Rcv & Rov Operator Tender	\$48.67	<u>5A</u>	<u>1B</u>	
Snohomish	Dredge Workers	Assistant Engineer	\$49.57	<u>5D</u>	<u>1T</u>	<u>8L</u>
Snohomish	Dredge Workers	Assistant Mate(deckhand)	\$49.06	<u>5D</u>	<u>1T</u>	<u>8L</u>
Snohomish	Dredge Workers	Engineer Welder	\$49.62	<u>5D</u>	<u>1T</u>	<u>8L</u>
Snohomish	Dredge Workers	Leverman, Hydraulic	\$51.19	<u>5D</u>	<u>1T</u>	<u>8L</u>
Snohomish	Dredge Workers	Maintenance	\$49.06	<u>5D</u>	<u>1T</u>	<u>8L</u>
Snohomish	Dredge Workers	Mates And Boatmen	\$49.57	<u>5D</u>	<u>1T</u>	<u>8L</u>
Snohomish	Dredge Workers	Oiler	\$49.19	<u>5D</u>	<u>1T</u>	<u>8L</u>
Snohomish	Drywall Applicator	Journey Level	\$48.47	<u>5D</u>	<u>1M</u>	
Snohomish	Drywall Tapers	Journey Level	\$48.79	<u>5P</u>	<u>1E</u>	
Snohomish	Electrical Fixture Maintenance Workers	Journey Level	\$13.76		<u>1</u>	
Snohomish	Electricians - Inside	Cable Splicer	\$58.70	<u>7H</u>	<u>1E</u>	
Snohomish	Electricians - Inside	Construction Stock Person	\$29.16	<u>7H</u>	<u>1D</u>	
Snohomish	Electricians - Inside	Journey Level	\$54.69	<u>7H</u>	<u>1E</u>	
Snohomish	Electricians - Motor Shop	Craftsman	\$15.37		<u>1</u>	
Snohomish	Electricians - Motor Shop	Journey Level	\$14.69		<u>1</u>	
Snohomish	Electricians - Powerline Construction	Cable Splicer	\$64.95	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Certified Line Welder	\$59.37	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Groundperson	\$42.16	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Head Groundperson	\$44.50	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$59.37	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Jackhammer Operator	\$44.50	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Journey Level Lineperson	\$59.37	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Line Equipment Operator	\$49.95	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Pole Sprayer	\$59.37	<u>5A</u>	<u>4A</u>	
Snohomish	Electricians - Powerline Construction	Powderperson	\$44.50	<u>5A</u>	<u>4A</u>	
Snohomish	Electronic Technicians	Journey Level	\$30.10		<u>1</u>	
Snohomish	Elevator Constructors	Mechanic	\$75.24	<u>7D</u>	<u>4A</u>	
Snohomish	Elevator Constructors	Mechanic In Charge	\$82.00	<u>7D</u>	<u>4A</u>	
Snohomish	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>	
Snohomish	Fence Erectors	Fence Erector	\$14.00		<u>1</u>	
Snohomish	Flaggers	Journey Level	\$33.93	<u>7A</u>	<u>2Y</u>	

Snohomish	Glaziers	Journey Level	\$50.91	<u>7L</u>	<u>1Y</u>	
Snohomish	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$55.68	<u>5J</u>	<u>1S</u>	
Snohomish	Heating Equipment Mechanics	Journey Level	\$67.82	<u>7F</u>	<u>1E</u>	
Snohomish	Hod Carriers & Mason Tenders	Journey Level	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Industrial Engine And Machine Mechanics	Journey Level	\$15.65		<u>1</u>	
Snohomish	Industrial Power Vacuum Cleaner	Journey Level	\$9.24		<u>1</u>	
Snohomish	Inland Boatmen	Boat Operator	\$51.95	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Cook	\$48.62	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Deckhand	\$48.62	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Deckhand Engineer	\$49.60	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Launch Operator	\$50.80	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Mate	\$50.80	<u>5B</u>	<u>1K</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$9.73		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$11.48		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$12.78		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$9.04		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$10.53		<u>1</u>	
Snohomish	Insulation Applicators	Journey Level	\$48.47	<u>5D</u>	<u>1M</u>	
Snohomish	Ironworkers	Journeyman	\$58.27	<u>7N</u>	<u>1O</u>	
Snohomish	Laborers	Air, Gas Or Electric Vibrating Scream	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Airtrac Drill Operator	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Ballast Regular Machine	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Batch Weighman	\$33.93	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Brick Pavers	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Brush Cutter	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Brush Hog Feeder	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Burner	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Caisson Worker	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Carpenter Tender	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Caulker	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Cement Dumper-paving	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Cement Finisher Tender	\$40.03	<u>7A</u>	<u>2Y</u>	

Snohomish	Laborers	Change House Or Dry Shack	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Chipping Gun (under 30 Lbs.)	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Chipping Gun(30 Lbs. And Over)	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Choker Setter	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Chuck Tender	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Clary Power Spreader	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Clean-up Laborer	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Compressed Air Worker 0-30 psi	\$52.08	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Compressed Air Worker 30.01-44.00 psi	\$57.08	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Compressed Air Worker 44.01-54.00 psi	\$60.76	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Compressed Air Worker 54.01-60.00 psi	\$66.46	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Compressed Air Worker 60.01-64.00 psi	\$68.58	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Compressed Air Worker 64.01-68.00 psi	\$73.68	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Compressed Air Worker 68.01-70.00 psi	\$75.58	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Concrete Dumper/chute Operator	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Concrete Form Stripper	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Concrete Placement Crew	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Concrete Saw Operator/core Driller	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Crusher Feeder	\$33.93	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Curing Laborer	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Ditch Digger	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Diver	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Drill Operator (hydraulic,diamond)	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Dry Stack Walls	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Dump Person	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Epoxy Technician	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Erosion Control Worker	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Faller & Bucker Chain Saw	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Fine Graders	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Firewatch	\$33.93	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Form Setter	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Gabian Basket Builders	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	General Laborer	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Grade Checker & Transit Person	\$41.28	<u>7A</u>	<u>2Y</u>	

Snohomish	Laborers	Grinders	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Grout Machine Tender	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Groutmen (pressure)including Post Tension Beams	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Guardrail Erector	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Hazardous Waste Worker (level A)	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Hazardous Waste Worker (level B)	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Hazardous Waste Worker (level C)	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	High Scaler	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Jackhammer	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Laserbeam Operator	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Maintenance Person	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Manhole Builder-mudman	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Material Yard Person	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Miner	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Motorman-dinky Locomotive	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunit, Shotcrete, Water Bla	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pavement Breaker	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pilot Car	\$33.93	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pipe Layer Lead	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pipe Layer/tailor	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pipe Pot Tender	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pipe Reliner	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pipe Wrapper	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Pot Tender	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Powderman	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Powderman's Helper	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Power Jacks	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Railroad Spike Puller - Power	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Raker - Asphalt	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Re-timberman	\$41.28	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Remote Equipment Operator	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Rigger/signal Person	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Rip Rap Person	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Rivet Buster	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Rodder	\$40.77	<u>7A</u>	<u>2Y</u>	

Snohomish	Laborers	Scaffold Erector	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Scale Person	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Sloper (over 20")	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Sloper Sprayer	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Spreader (concrete)	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Stake Hopper	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Stock Piler	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Tamper (multiple & Self-propelled)	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Toolroom Person (at Jobsite)	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Topper	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Track Laborer	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Track Liner (power)	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Truck Spotter	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Tugger Operator	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Tunnel Work-Guage and Lock Tender	\$41.38	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Miner	\$41.38	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Snohomish	Laborers	Vibrator	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Vinyl Seamer	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Watchman	\$30.84	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Welder	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Well Point Laborer	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers	Window Washer/cleaner	\$30.84	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers - Underground Sewer & Water	General Laborer & Topman	\$40.03	<u>7A</u>	<u>2Y</u>	
Snohomish	Laborers - Underground Sewer & Water	Pipe Layer	\$40.77	<u>7A</u>	<u>2Y</u>	
Snohomish	Landscape Construction	Irrigation Or Lawn Sprinkler Installers	\$17.31		<u>1</u>	
Snohomish	Landscape Construction	Landscape Equipment Operators Or Truck Drivers	\$20.06		<u>1</u>	
Snohomish	Landscape Construction	Landscaping Or Planting Laborers	\$14.13		<u>1</u>	
Snohomish	Lathers	Journey Level	\$48.74	<u>5D</u>	<u>1H</u>	
Snohomish	Marble Setters	Journey Level	\$48.27	<u>5A</u>	<u>1M</u>	
Snohomish	Metal Fabrication (In Shop)	Fitter	\$15.38		<u>1</u>	
Snohomish	Metal Fabrication (In Shop)	Laborer	\$9.79		<u>1</u>	
Snohomish	Metal Fabrication (In Shop)	Machine Operator	\$9.04		<u>1</u>	
Snohomish	Metal Fabrication (In Shop)	Painter	\$9.98		<u>1</u>	

Snohomish	Metal Fabrication (In Shop)	Welder	\$15.38		<u>1</u>	
Snohomish	Millwright	Journey Level	\$49.47	<u>5D</u>	<u>1M</u>	
Snohomish	Modular Buildings	Journey Level	\$9.04		<u>1</u>	
Snohomish	Painters	Journey Level	\$35.72	<u>6Z</u>	<u>2B</u>	
Snohomish	Pile Driver	Journey Level	\$48.67	<u>5A</u>	<u>1M</u>	
Snohomish	Plasterers	Journey Level	\$46.88	<u>7Q</u>	<u>1R</u>	
Snohomish	Playground & Park Equipment Installers	Journey Level	\$11.94		<u>1</u>	
Snohomish	Plumbers & Pipefitters	Journey Level	\$61.57	<u>5A</u>	<u>1G</u>	
Snohomish	Power Equipment Operators	Asphalt Plant Operators	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Assistant Engineer	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Barrier Machine (zipper)	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Batch Plant Operator, Concrete	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Bobcat	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Brooms	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Bump Cutter	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cableways	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Chipper	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Compressor	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Finish Machine -laser Scream	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Conveyors	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 100 Tons Through 199 Tons, or 150' of boom (including jib with attachments); Overhead, bridge type, 100 tons and over; Tower crane up to 175' in height, base to boom.	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 200 Tons To 300 Tons, Or 250' Of Boom (including Jib With Attachments)	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: Friction 100 Tons Through 199 Tons	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: Friction Over 200 Tons	\$52.07	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: Over 300 Tons Or 300' Of Boom (including Jib With Attachments)	\$52.07	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Crusher	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Deck Engineer/deck Winches (power)	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Derricks, On Building Work	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Dozer Quad 9, HD 41, D10 and Over	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Dozers D-9 & Under	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Drilling Machine	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Gradechecker/stakeman	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Guardrail Punch/Auger	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Horizontal/directional Drill Locator	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Horizontal/directional Drill Operator	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators	Hydralifts/boom Trucks Over 10 Tons	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loaders, Plant Feed	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loaders: Elevating Type Belt	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Locomotives, All	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Material Transfer Device	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Mixers: Asphalt Plant	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Motor Patrol Grader - Non-finishing	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Motor Patrol Graders, Finishing	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Pavement Breaker	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Posthole Digger, Mechanical	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Power Plant	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Pumps - Water	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Rigger And Bellman	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Rollagon	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Roller, Other Than Plant Mix	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Roto-mill, Roto-grinder	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Saws - Concrete	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Scrapers - Concrete & Carry All	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Service Engineers - Equipment	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shotcrete/gunite Equipment	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Slipform Pavers	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Spreader, Topsider & Screedman	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Subgrader Trimmer	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Tower Bucket Elevators	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Tower Crane Over 175'in Height, Base To Boom	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Transporters, All Track Or Truck Type	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Trenching Machines	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Truck Mount Portable Conveyor	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Welder	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Wheel Tractors, Farmall Type	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Yo Yo Pay Dozer	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operators	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator, Concrete	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Bobcat	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Brooms	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cableways	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Chipper	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Compressor	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Conveyors	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 Tons To 300 Tons, Or 250' Of Boom (including Jib With Attachments)	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction 100 Tons Through 199 Tons	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction Over 200 Tons	\$52.07	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: Over 300 Tons Or 300' Of Boom (including Jib With Attachments)	\$52.07	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Crusher	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/deck Winches (power)	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Dozer Quad 9, HD 41, D10 and Over	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch/Auger	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks Over 10 Tons	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Mixers: Asphalt Plant	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Grader - Non-finishing	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders, Finishing	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Rigger And Bellman	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Power Equipment Operators-Underground Sewer & Water	Tower Crane Over 175'in Height, Base To Boom	\$51.51	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	\$50.94	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Welder	\$50.39	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$47.12	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$49.90	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$42.91	<u>5A</u>	<u>4A</u>	
Snohomish	Power Line Clearance Tree Trimmers	Spray Person	\$40.73	<u>5A</u>	<u>4A</u>	
Snohomish	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$41.29	<u>5A</u>	<u>4A</u>	
Snohomish	Power Line Clearance Tree Trimmers	Tree Trimmer	\$38.38	<u>5A</u>	<u>4A</u>	
Snohomish	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$28.95	<u>5A</u>	<u>4A</u>	
Snohomish	Refrigeration & Air Conditioning Mechanics	Mechanic	\$61.57	<u>5A</u>	<u>1G</u>	
Snohomish	Residential Brick Mason	Journey Level	\$20.00		<u>1</u>	
Snohomish	Residential Carpenters	Journey Level	\$38.08	<u>5D</u>	<u>1M</u>	
Snohomish	Residential Cement Masons	Journey Level	\$14.00		<u>1</u>	
Snohomish	Residential Drywall Applicators	Journey Level	\$38.08	<u>5D</u>	<u>1M</u>	
Snohomish	Residential Drywall Tapers	Journey Level	\$48.79	<u>5P</u>	<u>1E</u>	
Snohomish	Residential Electricians	Journey Level	\$30.62	<u>7F</u>	<u>1D</u>	
Snohomish	Residential Glaziers	Journey Level	\$34.60	<u>7L</u>	<u>1H</u>	
Snohomish	Residential Insulation Applicators	Journey Level	\$25.68		<u>1</u>	
Snohomish	Residential Laborers	Journey Level	\$20.73		<u>1</u>	
Snohomish	Residential Marble Setters	Journey Level	\$30.74		<u>1</u>	
Snohomish	Residential Painters	Journey Level	\$17.46		<u>1</u>	
Snohomish	Residential Plumbers & Pipefitters	Journey Level	\$28.99		<u>1</u>	

Snohomish	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$38.78	<u>5A</u>	<u>1G</u>	
Snohomish	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$40.04	<u>7F</u>	<u>1R</u>	
Snohomish	Residential Soft Floor Layers	Journey Level	\$41.95	<u>5A</u>	<u>2Z</u>	
Snohomish	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$41.31	<u>5C</u>	<u>2R</u>	
Snohomish	Residential Stone Masons	Journey Level	\$30.74		<u>1</u>	
Snohomish	Residential Terrazzo Workers	Journey Level	\$9.04		<u>1</u>	
Snohomish	Residential Terrazzo/Tile Finishers	Journey Level	\$21.60		<u>1</u>	
Snohomish	Residential Tile Setters	Journey Level	\$25.17		<u>1</u>	
Snohomish	Roofers	Journey Level	\$43.65	<u>5A</u>	<u>1R</u>	
Snohomish	Roofers	Using Irritable Bituminous Materials	\$46.65	<u>5A</u>	<u>1R</u>	
Snohomish	Sheet Metal Workers	Journey Level (Field or Shop)	\$67.82	<u>7F</u>	<u>1E</u>	
Snohomish	Shipbuilding & Ship Repair	Boilermaker	\$35.83	<u>7M</u>	<u>1H</u>	
Snohomish	Shipbuilding & Ship Repair	Carpenter	\$33.93	<u>5T</u>	<u>1L</u>	
Snohomish	Shipbuilding & Ship Repair	Electrician	\$33.96	<u>5T</u>	<u>1L</u>	
Snohomish	Shipbuilding & Ship Repair	Heat & Frost Insulator	\$55.68	<u>5J</u>	<u>1S</u>	
Snohomish	Shipbuilding & Ship Repair	Laborer	\$25.35	<u>5T</u>	<u>1L</u>	
Snohomish	Shipbuilding & Ship Repair	Machinist	\$33.96	<u>5T</u>	<u>1L</u>	
Snohomish	Shipbuilding & Ship Repair	Painter	\$35.72	<u>6Z</u>	<u>2B</u>	
Snohomish	Shipbuilding & Ship Repair	Shipfitter	\$33.96	<u>5T</u>	<u>1L</u>	
Snohomish	Shipbuilding & Ship Repair	Welder/Burner	\$33.96	<u>5T</u>	<u>1L</u>	
Snohomish	Sign Makers & Installers (Electrical)	Sign Installer	\$26.56		<u>1</u>	
Snohomish	Sign Makers & Installers (Electrical)	Sign Maker	\$20.50		<u>1</u>	
Snohomish	Sign Makers & Installers (Non-Electrical)	Sign Installer	\$22.56		<u>1</u>	
Snohomish	Sign Makers & Installers (Non-Electrical)	Sign Maker	\$20.50		<u>1</u>	
Snohomish	Soft Floor Layers	Journey Level	\$41.95	<u>5A</u>	<u>2Z</u>	
Snohomish	Solar Controls For Windows	Journey Level	\$9.04		<u>1</u>	
Snohomish	Sprinkler Fitters (Fire Protection)	Journey Level	\$68.79	<u>5C</u>	<u>1X</u>	
Snohomish	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.23		<u>1</u>	
Snohomish	Stone Masons	Journey Level	\$48.27	<u>5A</u>	<u>1M</u>	
Snohomish	Street And Parking Lot Sweeper Workers	Journey Level	\$15.00		<u>1</u>	
Snohomish	Surveyors	Assistant Construction Site Surveyor	\$49.48	<u>7A</u>	<u>1T</u>	<u>8P</u>
Snohomish	Surveyors	Chainman	\$48.96	<u>7A</u>	<u>1T</u>	<u>8P</u>

Snohomish	Surveyors	Construction Site Surveyor	\$50.39	7A	1T	8P
Snohomish	Telecommunication Technicians	Journey Level	\$22.38		1	
Snohomish	Telephone Line Construction - Outside	Cable Splicer	\$34.20	5A	2B	
Snohomish	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$18.72	5A	2B	
Snohomish	Telephone Line Construction - Outside	Installer (Repairer)	\$32.78	5A	2B	
Snohomish	Telephone Line Construction - Outside	Special Aparatus Installer I	\$34.20	5A	2B	
Snohomish	Telephone Line Construction - Outside	Special Apparatus Installer II	\$33.51	5A	2B	
Snohomish	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$34.21	5A	2B	
Snohomish	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$31.81	5A	2B	
Snohomish	Telephone Line Construction - Outside	Telephone Lineperson	\$31.81	5A	2B	
Snohomish	Telephone Line Construction - Outside	Television Groundperson	\$18.16	5A	2B	
Snohomish	Telephone Line Construction - Outside	Television Lineperson/Installer	\$24.09	5A	2B	
Snohomish	Telephone Line Construction - Outside	Television System Technician	\$28.72	5A	2B	
Snohomish	Telephone Line Construction - Outside	Television Technician	\$25.81	5A	2B	
Snohomish	Telephone Line Construction - Outside	Tree Trimmer	\$31.82	5A	2B	
Snohomish	Terrazzo Workers	Journey Level	\$43.93	5A	1M	
Snohomish	Tile Setters	Journey Level	\$43.93	5A	1M	
Snohomish	Tile, Marble & Terrazzo Finishers	Finisher	\$37.76	5A	1B	
Snohomish	Traffic Control Stripers	Journey Level	\$40.73	7A	1K	
Snohomish	Truck Drivers	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$46.97	5D	3A	8L
Snohomish	Truck Drivers	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$46.13	5D	3A	8L
Snohomish	Truck Drivers	Dump Truck	\$37.94		1	
Snohomish	Truck Drivers	Dump Truck And Trailer	\$38.52		1	
Snohomish	Truck Drivers	Other Trucks	\$38.52		1	
Snohomish	Truck Drivers	Transit Mixer	\$37.91	6I	1B	
Snohomish	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$17.05		1	
Snohomish	Well Drillers & Irrigation Pump Installers	Oiler	\$13.93		1	

Snohomish	Well Drillers & Irrigation Pump Installers	Well Driller	\$19.01		<u>1</u>	
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Davis Bacon Prevailing Wage Rates (<http://www.wdol.gov/dba.aspx>)

General Decision Number: WA120001 02/17/2012 WA1

Superseded General Decision Number: WA20100001

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	01/06/2012
1	01/13/2012
2	02/10/2012
3	02/17/2012

CARP0001-008 09/01/2009

	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:.....	\$ 27.73	10.56
GROUP 2:.....	\$ 29.73	10.56
GROUP 3:.....	\$ 28.00	10.56
GROUP 4:.....	\$ 27.73	10.56
GROUP 5:.....	\$ 63.50	10.56
GROUP 6:.....	\$ 30.75	10.56
GROUP 7:.....	\$ 31.75	10.56
GROUP 8:.....	\$ 28.00	10.56
GROUP 9:.....	\$ 33.75	10.56
SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE, STEVENS AND WHITMAN COUNTIES		
GROUP 1:.....	\$ 26.06	10.56
GROUP 2:.....	\$ 28.06	10.56
GROUP 3:.....	\$ 26.32	10.56
GROUP 4:.....	\$ 26.06	10.56
GROUP 5:.....	\$ 60.14	10.56
GROUP 6:.....	\$ 29.07	10.56
GROUP 7:.....	\$ 30.07	10.56
GROUP 8:.....	\$ 27.32	10.56
GROUP 9:.....	\$ 33.07	10.56

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

CARP0770-003 06/01/2010

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.....	\$ 35.49	12.60
CARPENTERS.....	\$ 35.39	12.60
DIVERS TENDER.....	\$ 39.15	12.60
DIVERS.....	\$ 87.20	12.60
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 36.39	12.60
PILEDRIVER, DRIVING, PULLING, CUTTING, PLACING		

COLLARS, SETTING, WELDING
 OR CRESOTE TREATED
 MATERIAL, ALL PILING.....\$ 35.59 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 06/01/2010

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 13.08

CARPENTERS ON CREOSOTE		
MATERIAL.....	\$ 35.49	13.08
CARPENTERS.....	\$ 35.39	13.08
DIVERS TENDER.....	\$ 39.15	13.08
DIVERS.....	\$ 87.20	13.08
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 36.39	13.08
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 35.59	13.08

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS)

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 PILEDRIIVER 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 06/01/2009

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.89	3%+15.71
ELECTRICIAN.....	\$ 40.81	3%+15.71

* ELEC0048-003 01/02/2012

CLARK, KLICKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 40.75	3%+16.30
ELECTRICIAN.....	\$ 37.05	3%+16.30

HOURLY ZONE PAY:

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Portland, The Dalles, Hood River, Tillamook, Seaside and Astoria

Zone Pay:

- Zone 1: 31-50 miles \$1.50/hour
- Zone 2: 51-70 miles \$3.50/hour
- Zone 3: 71-90 miles \$5.50/hour
- Zone 4: Beyond 90 miles \$9.00/hour

*These are not miles driven. Zones are based on Delorme Street Atlas USA 2006 plus.

ELEC0073-001 08/22/2011

ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 31.48	14.84
ELECTRICIAN.....	\$ 28.62	14.84

ELEC0076-002 09/01/2011

GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 37.54	21.62
ELECTRICIAN.....	\$ 34.13	21.62

ELEC0112-005 06/01/2011

ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA WALLA, YAKIMA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 37.70	35+14.63
ELECTRICIAN.....	\$ 35.90	3%+14.63

ELEC0191-003 07/01/2011

ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 42.91	15.39
ELECTRICIAN.....	\$ 39.01	15.39

ELEC0191-004 07/01/2011

CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 39.28	15.24
ELECTRICIAN.....	\$ 35.71	15.24

ELEC0970-001 01/01/2009

COWLITZ AND WAHKIAKUM COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 34.68	3%+9.59
ELECTRICIAN.....	\$ 31.53	3%+9.59

ENGI0302-003 06/01/2011

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.....	\$ 35.79	15.15
Group 1AA.....	\$ 36.36	15.15
Group 1AAA.....	\$ 36.92	15.15
Group 1.....	\$ 35.24	15.15
Group 2.....	\$ 34.75	15.15
Group 3.....	\$ 34.33	15.15
Group 4.....	\$ 31.97	15.15

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; Scrapers-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 machine-laser screed; Cranes-A frame-10 tons and under; Elevator and Manlift-permanent or shaft type; Gradechecker, Stakehop; Forklifts under 3000 lbs. with attachments; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger, mechanical; Power plant; Pumps, water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/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 eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing

H-2 Class "C" Suit - Base wage rate plus \$.25 per hour.

H-3 Class "B" Suit - Base wage rate plus \$.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$.75 per hour.

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) - \$.70

Zone 3 (Over 45 radius miles) - \$1.00

BASEPOINTS: Aberdeen, Bellingham, Bremerton, Everett, Kent, Mount Vernon, Port Angeles, Port Townsend, Seattle, Shelton, Wenatchee, Yakima

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1AAA - Cranes-over 300 tons, or 300 ft of boom (including jib with attachments)

GROUP 1AA - Cranes 200 to 300 tons, or 250 ft of boom (including jib with attachments); Tower crane over 175 ft in height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons, under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead 6 yards to, but not including 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9, HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self propelled 45 yards and over; Slipform pavers; Transporters, all truck or track type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-Concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-overhead, bridge type-20 tons through 44 tons; Chipper; Concrete Pump-truck mount with boom attachment; Crusher; Deck Engineer/Deck Winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing Machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Horizontal/directional drill operator; Loaders-overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics-all; Mixers-asphalt plant; Motor patrol graders-finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrade trimmer; Tractors, backhoes-over 75 hp; Transfer material service machine-shuttle buggy, blaw knox-roadtec; Truck crane oiler/driver-100 tons and over; Truck Mount portable conveyor; Yo Yo Pay dozer

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; A-frame crane over 10 tons; Drill oilers-auger type, truck or crane mount; Dozers-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator;

Outside hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loader-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pumps-concrete; Roller, plant mix or multi-lift materials; Saws-concrete; 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.

ENGI0370-002 06/01/2011

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 1A.....	\$ 24.41	12.05
GROUP 1.....	\$ 24.76	12.05
GROUP 2.....	\$ 25.08	12.05
GROUP 3.....	\$ 25.69	12.05
GROUP 4.....	\$ 25.85	12.05
GROUP 5.....	\$ 26.01	12.05
GROUP 6.....	\$ 26.29	12.05
GROUP 7.....	\$ 26.56	12.05
GROUP 8.....	\$ 27.66	12.05

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 1A: Boat Operator; Crush Feeder; Oiler; Steam Cleaner

GROUP 1: Bit Grinders; Bolt Threading Machine; Compressors (under 2000 CFM, gas, diesel, or electric power); Deck Hand; Drillers Helper (Assist driller in making drill rod connections, service drill engine and air compressor, repair drill rig and drill tools, drive drill support truck to and on the job site, remove drill cuttings from around bore hole and inspect drill rig while in operation); Fireman & Heater Tender; Hydro-seeder, Mulcher, Nozzleman; Oiler Driver, & Cable Tender, Mucking Machine; Pumpman; Rollers, all types on subgrade, including seal and chip coatings (farm type, Case, John Deere & similar, or Compacting Vibrator), except when pulled by Dozer with operable blade; Welding Machine; Crane Oiler-Driver (CLD required) & Cable Tender, Mucking Machine

GROUP 2: A-frame Truck (single drum); Assistant Refrigeration Plant (under 1000 ton); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Belt Finishing Machine; Blower Operator (cement); Cement Hog; Compressor (2000 CFM or over, 2 or more, gas diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Ditch Witch or similar; Elevator Hoisting Materials; Dope Pots (power agitated); Fork Lift or Lumber Stacker, hydra-lift & similar; Gin Trucks (pipeline); Hoist, single drum; Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable-concrete); Pavement Breaker, Hydra-Hammer & similar; Power Broom; Railroad Ballast Regulation Operator (self-propelled); Railroad Power Tamper Operator (self-propelled); Railroad

Tamper Jack Operator (self-propelled); Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross & similar on construction job only); Tractor (Farm type R/T with attachment, except Backhoe); Tugger Operator

GROUP 3: A-frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 ton); Backfillers (Cleveland & similar); Batch Plant & Wet Mix Operator, single unit (concrete); Belt-Crete Conveyors with power pack or similar; Belt Loader (Kocal or similar); Bending Machine; Bob Cat (Skid Steer); Boring Machine (earth); Boring Machine (rock under 8 inch bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginaw or similar); Canal Lining Machine (concrete); Chipper (without crane); Cleaning & Doping Machine (pipeline); Deck Engineer; Elevating Belt-type Loader (Euclid, Barber Green & similar); Elevating Grader-type Loader (Dumor, Adams or similar); Generator Plant Engineers (diesel or electric); 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; Roller (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 dragline; 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 and Similar); Ultra High Pressure Waterjet 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.

ENGI0612-006 06/01/2011

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.....	\$ 35.79	15.15
GROUP 1AA.....	\$ 36.36	15.15
GROUP 1AAA.....	\$ 36.92	15.15
GROUP 1.....	\$ 35.24	15.15
GROUP 2.....	\$ 34.75	15.15
GROUP 3.....	\$ 34.33	15.15
GROUP 4.....	\$ 31.97	15.15

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.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing

H-2 Class "C" Suit - Base wage rate plus \$.25 per hour.

H-3 Class "B" Suit - Base wage rate plus \$.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$.75 per hour.

ENGI0701-002 01/01/2012

CLARK, COWLITZ, KLICKKITAT, PACIFIC (SOUTH), SKAMANIA, AND
WAHAKIYAKUM COUNTIES

POWER EQUIPMENT OPERATORS: ZONE 1

	Rates	Fringes
Power equipment operators:		
(See Footnote A)		
GROUP 1.....	\$ 37.27	12.08
GROUP 1A.....	\$ 39.13	12.08
GROUP 1B.....	\$ 41.00	12.08
GROUP 2.....	\$ 35.64	12.08
GROUP 3.....	\$ 34.64	12.08
GROUP 4.....	\$ 33.71	12.08
GROUP 5.....	\$ 32.60	12.08
GROUP 6.....	\$ 29.61	12.08

Zone Differential (add to Zone 1 rates):
Zone 2 - \$3.00
Zone 3 - \$6.00

For the following metropolitan counties: MULTNOMAH;
CLACKAMAS; MARION; WASHINGTON; YAMHILL; AND COLUMBIA;
CLARK; AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS
INDICATED:

All jobs or projects located in Multnomah, Clackamas and
Marion Counties, West of the western boundary of Mt. Hood
National Forest and West of Mile Post 30 on Interstate 84
and West of Mile Post 30 on State Highway 26 and West of
Mile Post 30 on Highway 22 and all jobs or projects located
in Yamhill County, Washington County and Columbia County
and all jobs or projects located in Clark & Cowlitz County,
Washington except that portion of Cowlitz County in the Mt.
St. Helens "Blast Zone" shall receive Zone I pay for all
classifications.

All jobs or projects located in the area outside the
identified boundary above, but less than 50 miles from the
Portland City Hall shall receive Zone II pay for all
classifications.

All jobs or projects located more than 50 miles from the
Portland City Hall, but outside the identified border
above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; BEND; COOS BAY; EUGENE;
GRANTS PASS; KLAMATH FALLS; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the
respective city hall of the above mentioned cities shall

receive Zone I pay for all classifications.

All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: CONCRETE: Batch Plant and/or Wet Mix Operator, three units or more; CRANE: Helicopter Operator, when used in erecting work; Whirley Operator, 90 ton and over; LATTICE BOOM CRANE: Operator 200 tons through 299 tons, and/or over 200 feet boom; HYDRAULIC CRANE: Hydraulic Crane Operator 90 tons through 199 tons with luffing or tower attachments; FLOATING EQUIPMENT: Floating Crane, 150 ton but less than 250 ton

GROUP 1A: HYDRAULIC CRANE: Hydraulic Operator, 200 tons and over (with luffing or tower attachment); LATTICE BOOM CRANE: Operator, 200 tons through 299 tons, with over 200 feet boom; FLOATING EQUIPMENT: Floating Crane 250 ton and over

GROUP 1B: LATTICE BOOM CRANE: Operator, 300 tons through 399 tons with over 200 feet boom; Operator 400 tons and over; FLOATING EQUIPMENT: Floating Crane 350 ton and over

GROUP 2: ASPHALT: Asphalt Plant Operator (any type); Roto Mill, pavement profiler, operator, 6 foot lateral cut and over; 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 Clamshell, etc. Operator, under 3 cu. yds. (Fireman or Diesel-Electric Engineer required); Floating Crane (derrick barge) Operator, less than 30 tons; GENERATORS: Generator Operator; Diesel-electric Engineer; GUARDRAIL EQUIPMENT: Guardrail Punch Operator (all types); Guardrail Auger Operator (all types); Combination Guardrail machines, i.e., punch auger, etc.; HEATING PLANT: Surface Heater and Planer Operator; HYDRAULIC HOES EXCAVATOR: Robotic Hydraulic backhoe operator, track and wheel type up to and including 20,000 lbs. with any or all attachments; Excavator Operator over 20,000 lbs through 80,000 lbs.; LOADERS: Belt Loaders, Kolman and Ko Cal types; Loaders Operator, front end and overhead, 25,000 lbs and less than 60,000 lbs; Elevating Grader Operator by Tractor operator, Sierra, Euclid or similar types; PILEDRIEVERS: 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; Stationary 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; Belcrete 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

 IRON0014-005 07/01/2010

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE, STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 31.09	19.60

 IRON0029-002 07/01/2010

CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKAIKUM COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.62	19.60

 IRON0086-002 07/01/2010

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 31.09	19.60

 IRON0086-004 07/01/2010

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,

MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.67	19.60

LABO0001-002 06/01/2009		

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.....	\$ 21.77	9.07
GROUP 2.....	\$ 24.86	9.07
GROUP 3.....	\$ 30.96	9.07
GROUP 4.....	\$ 31.70	9.07
GROUP 5.....	\$ 32.21	9.07
CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITTTITAS AND YAKIMA COUNTIES		
GROUP 1.....	\$ 17.95	9.07
GROUP 2.....	\$ 20.58	9.07
GROUP 3.....	\$ 22.54	9.07
GROUP 4.....	\$ 23.09	9.07
GROUP 5.....	\$ 23.48	9.07

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 06/01/2011

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.....	\$ 21.31	10.00
GROUP 2.....	\$ 23.41	10.00
GROUP 3.....	\$ 23.68	10.00
GROUP 4.....	\$ 23.95	10.00
GROUP 5.....	\$ 24.23	10.00
LABORER (SPOKANE)		
GROUP 1.....	\$ 21.01	10.00
GROUP 2.....	\$ 23.11	10.00
GROUP 3.....	\$ 23.38	10.00
GROUP 4.....	\$ 23.65	10.00
GROUP 5.....	\$ 23.93	10.00

Zone Differential (Add to Zone 1 rate): \$2.00

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office.

LABORERS CLASSIFICATIONS

GROUP 1: Flagman; Landscape Laborer; Scaleman; Traffic Control Maintenance Laborer (to include erection and maintenance of barricades, signs and relief of flagperson); Window Washer/Cleaner (detail cleanup, such as, but not limited to cleaning floors, ceilings, walls, windows, etc. prior to final acceptance by the owner)

GROUP 2: Asbestos Abatement Worker; Brush Hog Feeder; Carpenter Tender; Cement Handler; Clean-up Laborer; Concrete Crewman (to include stripping of forms, hand operating jacks on slip form construction, application of concrete curing compounds, pumpcrete machine, signaling, handling the nozzle of squeezecrete or similar machine, 6 inches and smaller); Confined Space Attendant; Concrete Signalman; Crusher Feeder; Demolition (to include clean-up, burning, loading, wrecking and salvage of all material); Dumpman; Fence Erector; Firewatch; Form Cleaning Machine Feeder, Stacker; General Laborer; Grout Machine Header Tender; Guard Rail (to include guard rails, guide and

reference posts, sign posts, and right-of-way markers); Hazardous Waste Worker, Level D (no respirator is used and skin protection is minimal); Miner, Class "A" (to include all bull gang, concrete crewman, dumpman and pumpcrete crewman, including distributing pipe, assembly & dismantle, and nipper); Nipper; Riprap Man; Sandblast 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 Raker; 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; Tamping (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; 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); Guniting (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 06/01/2011

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.....	\$ 23.95	9.95

LABO0335-001 06/01/2011

CLARK, COWLITZ, KLUCKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHKIYAKUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHKIYAKUM COUNTIES

	Rates	Fringes
Laborers:		
ZONE 1:		
GROUP 1.....	\$ 27.91	10.45
GROUP 2.....	\$ 28.51	10.45
GROUP 3.....	\$ 28.95	10.45
GROUP 4.....	\$ 29.33	10.45
GROUP 5.....	\$ 25.41	10.45
GROUP 6.....	\$ 22.99	10.45
GROUP 7.....	\$ 19.79	10.45

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 Scalars, 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 06/01/2008

	Rates	Fringes
Hod Carrier.....	\$ 29.58	8.40

PAIN0005-002 01/01/2012

STATEWIDE EXCEPT CLARK, COWLITZ, KLUCKITAT, PACIFIC (SOUTH),
SKAMANIA, AND WAHAKIAKUM COUNTIES

	Rates	Fringes
Painters: STRIPERS.....	\$ 30.96	12.77

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

* PAIN0005-006 01/01/2012

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.....	\$ 21.50	7.98
Over 30'/Swing Stage Work..	\$ 22.20	7.98
Brush, Roller, Striping, Steam-cleaning and Spray....	\$ 21.53	9.45
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 07/01/2011

CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKIAKUM
COUNTIES

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 19.85	7.99
High work - All work 60 ft. or higher.....	\$ 22.90	7.99
Spray and Sandblasting.....	\$ 22.90	7.99

PAIN0055-007 07/01/2011

CLARK, COWLITZ, KLICKITAT, SKAMANIA and WAHKIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY & PARKING LOT STRIPER.....	\$ 33.19	9.05

PLAS0072-004 06/01/2011

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.....	\$ 25.01	11.32

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 10/01/2011

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.....	\$ 34.90	14.25
COMPOSITION, TROWEL		

MACHINE, GRINDER, POWER TOOLS, GUNNITE NOZZLE.....	\$ 35.40	14.25
TROWLING MACHINE OPERATOR ON COMPOSITION.....	\$ 35.40	14.25

 PLAS0555-002 06/01/2011

CLARK, KLICKITAT AND SKAMANIA COUNTIES

ZONE 1:

	Rates	Fringes
Cement Masons:		
CEMENT MASONS DOING BOTH COMPOSITION/POWER MACHINERY AND SUSPENDED/HANGING SCAFFOLD..	\$ 29.62	17.59
CEMENT MASONS ON SUSPENDED, SWINGING AND/OR HANGING SCAFFOLD.....	\$ 29.05	17.59
CEMENT MASONS.....	\$ 28.48	17.59
COMPOSITION WORKERS AND POWER MACHINERY OPERATORS...	\$ 29.05	17.59

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 12/02/2011

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 WAHAKIYAKUM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE 1		
GROUP 1.....	\$ 26.90	13.15
GROUP 2.....	\$ 27.02	13.15
GROUP 3.....	\$ 27.15	13.15

GROUP 4.....	\$ 27.41	13.15
GROUP 5.....	\$ 27.63	13.15
GROUP 6.....	\$ 27.79	13.15
GROUP 7.....	\$ 27.99	13.15

Zone Differential (Add to Zone 1 Rates):

- Zone 2 - \$0.65
- Zone 3 - 1.15
- Zone 4 - 1.70
- Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: A Frame or Hydra lift truck w/load bearing surface; Articulated Dump Truck; Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Concrete Pump Truck; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations 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 trucks: 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)

* TEAM0174-001 06/01/2009

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:.....	\$ 31.87	14.60
GROUP 2:.....	\$ 31.03	14.60
GROUP 3:.....	\$ 28.22	14.60
GROUP 4:.....	\$ 23.25	14.60
GROUP 5:.....	\$ 31.42	14.60
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.

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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: (ANYONE WORKING ON HAZMAT JOBS SEE FOOTNOTE A BELOW)		
ZONE 1:		
GROUP 1.....	\$ 20.02	10.86
GROUP 2.....	\$ 22.29	10.86
GROUP 3.....	\$ 22.79	10.86
GROUP 4.....	\$ 23.12	10.86
GROUP 5.....	\$ 23.23	10.86
GROUP 6.....	\$ 23.40	10.86
GROUP 7.....	\$ 23.93	10.86
GROUP 8.....	\$ 24.26	10.86

Zone Differential (Add to Zone 1 rate: Zone 2 - \$2.00)

BASE POINTS: Spokane, Moses Lake, 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 Hydraulic System; Fork Lift

(3001-16,000 lbs.); Fuel Truck Driver, Steamcleaner & Washer; Power Operated Sweeper; Rubber-tired Tunnel Jumbo; Scissors Truck; Slurry Truck Driver; Straddle Carrier (Ross, Hyster, & similar); Tireperson; Transit Mixers & Truck Hauling Concrete (3 yd. to & including 6 yds.); Trucks, side, end, bottom & articulated end dump (3 yards to and including 6 yds.); Warehouseperson (to include shipping & receiving); Wrecker & Tow Truck

GROUP 4: A-Frame; Burner, Cutter, & Welder; Service Greaser; Trucks, side, end, bottom & articulated end dump (over 6 yards to and including 12 yds.); Truck Mounted Hydro Seeder; Warehouseperson; Water Tank truck (0-8,000 gallons)

GROUP 5: 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 operated trailer); Transit Mixers & Trucks Hauling Concrete (over 20 yds.); Truck, side, end, bottom end dump (over 40 yds. to & including 100 yds.); Truck Mounted Crane (with load bearing surface either mounted or pulled (16 through 25 tons);

GROUP 8: Prime Movers and Stinger Truck; Trucks, side, end, bottom and articulated end dump (over 100 yds.); Helicopter Pilot Hauling Employees or Materials

Footnote A - Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C-D: - \$.50 PER HOUR (This is the lowest level of protection. This level may use an air purifying respirator or additional protective clothing.

LEVEL A-B: - \$1.00 PER HOUR (Uses supplied air in conjunction with a chemical splash suit or fully encapsulated suit with a self-contained breathing apparatus.

Employees shall be paid Hazmat pay in increments of four(4) and eight(8) hours.

NOTE:

Trucks Pulling Equipment Trailers: shall receive \$.15/hour over applicable truck rate

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

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 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.

=====

END OF GENERAL DECISION

APPENDIX B

SOILS REPORT

Geotechnical Engineering Services

67th Avenue Phase III Improvement Project
Arlington, Washington

for
HDR Engineering, Inc.

September 21, 2010



8410 154th Avenue NE
Redmond, Washington 98052
425.861.6000

Geotechnical Engineering Services
67th Avenue Phase III Improvement
Project
Arlington, Washington

File No. 5430-006-00

September 21, 2010

Prepared for:

HDR Engineering, Inc.
500 108th Avenue NE
Bellevue, Washington 98004-5549

Attention: Eric Dawson

Prepared by:

GeoEngineers, Inc.
8410 154th Avenue NE
Redmond, Washington 98052
425.861.6000

Daniel P. Ciani, PE
Geotechnical Engineer

Thomas Tobin, PE
Principal

WLT:DPC:TAT:nlw

One copy submitted via email

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

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INTRODUCTION

This report presents the preliminary results of our geotechnical engineering services for evaluation of the soil and groundwater conditions and provides recommendations for the design and construction of the proposed 67th Avenue Phase III roadway improvements to be located in Arlington, Washington. The site is shown relative to surrounding physical features on the Vicinity Map (Figure 1) and the Site Plans (Figures 2, 3, and 4).

PROJECT DESCRIPTION

GeoEngineers' understanding of the project is based on discussions with Eric Dawson with HDR Engineering, Inc. We understand that the City of Arlington proposes roadway improvements along 67th Avenue NE, starting at the intersection of 67th Avenue NE and 204th Street NE and continuing north for approximately 0.7 miles. The proposed roadway improvements include widening portions of the existing alignment to allow three lanes of traffic, the addition of sidewalks along the west side of the alignment, construction of retaining walls, construction of multiple infiltration facilities, and installation of a multi-modal pedestrian facility along the east side of the roadway corridor.

SCOPE OF SERVICES

The purpose of this study is to complete subsurface explorations at the project site and to provide geotechnical engineering conclusions and recommendations for the design and construction of the proposed improvements.

GeoEngineers' geotechnical engineering services were completed in general accordance with our services agreement executed on August 5, 2009. Our specific scope of services for this phase of the project includes the following tasks:

1. Review geologic maps and subsurface information in our files for the site vicinity.
2. Explore subsurface soil and groundwater conditions by completing nine geotechnical explorations, which including three monitoring well installations.
3. Complete laboratory testing on selected soil samples obtained from the explorations.
4. Classify the soils encountered in the explorations and evaluate pertinent engineering and physical characteristics.
5. Provide infiltration rates for design of stormwater facilities.
6. Address City of Arlington Sensitive Areas ordinance issues.
7. Assess seismic hazards at the site, including liquefaction and lateral spreading.
8. Provide design recommendations for:
 - Site preparation and earthwork,
 - Pavement and pavement subgrade preparation,
 - Earth retention systems,

- Sedimentation and erosion control,
 - Foundation support for pedestrian bridge and culverts, and
 - Dewatering requirements for fish passage culvert construction.
9. Prepare a draft and final report presenting our conclusions and recommendations along with supporting field and laboratory data.

FIELD EXPLORATIONS AND LABORATORY TESTING

Field Explorations

Subsurface soil and groundwater conditions at the site were evaluated by completing nine geotechnical borings (MW-1, B-2, B-3, MW-4, B-5, MW-6, and B-7 through B-9). Of these nine borings, three were installed with monitoring wells (MW-1, MW-4, and MW-6) along the project alignment. The borings were completed to depths ranging from 11½ to 26½ feet below the existing ground surface. The approximate locations of these borings are shown on the Site Plans, Figures 2, 3 and 4. Details of the field exploration program and logs of the explorations are presented in Appendix A.

Laboratory Testing

Soil samples were obtained during drilling and taken to our laboratory for further evaluation. Selected samples were tested for the determination of moisture content, fines content, particle size distribution and California Bearing Ratio (CBR). A description of the laboratory testing and the test results are presented in Appendix B.

SITE DESCRIPTION

Site Geology

The site is located along the eastern edge of the Stillaguamish River Valley. According to the Geologic Map of the Arlington West Quadrangle (Minard 1985), the project site is located on an outcropping of Recessional Outwash, specifically the Marysville Sand Member in the southern portion of the site and the Arlington Gravel Member in the northern portion of the site.

The recessional outwash was deposited by meltwater flowing south from the stagnating and receding Vashon Glacier. The Marysville Sand Member is characterized by well draining stratified outwash sand, with some gravel and areas of silt and clay. This deposit is up to 65 feet thick and is generally underlain by glacial till. The Arlington gravel member consists of well drained stratified sand and gravel deposits; oxidation and iron oxide cementation are common in this unit. The deposit may be up to 85 feet thick, and is also generally underlain by glacial till.

Surface Conditions

The site is bounded by 204th Street NE to the south, the 67th Avenue NE Right of Way (ROW) to the west, the Burlington Northern Santa Fe (BNSF) Railway Company ROW to the east, and extends north to North Olympic Avenue. The focus of this geotechnical report is the portion of the project from the intersection of 67th Avenue NE and 204th Street NE (Station 100+00) and extends

approximately 0.7 miles north along 67th Avenue NE (Station 138+00). The project alignment is shown on the attached Site Plans, Figures 2, 3, and 4.

The property around the proposed project alignment is developed for commercial and residential use and is occupied by restaurants, residential buildings, and small retail stores. The BNSF railroad alignment and ROW border the eastern boundary of the roadway corridor. The BNSF railroad embankment is elevated above portions of the roadway. Portions of the grade transition slope downward towards 67th Avenue at moderate inclination and portions of the slope are truncated by a 3 to 4 feet high concrete cantilever retaining wall. Site grade along the southern portion of the project is generally at Elevation 133 feet and slopes downward to Elevation 109 feet at the northern limits of our geotechnical study area.

The vegetation along the street consists largely of landscape berms with small trees and shrubs. Several small creeks cut across the southern portion of project alignment. North of 211th Place NE there is a mapped wetland area northwest of the road corridor. This wetland area is separated from the roadway by a steep slope that parallels the west side of 67th Avenue NE.

Existing utilities within or near the project area include overhead power, business signs and communication lines and buried gas, fiber optic, storm sewer, sanitary sewer, and water.

City of Arlington Critical Areas

As part of our services for the project, we reviewed the City of Arlington's critical areas map folio for the site and surrounding area. Based on our review of the maps, we note the following:

- No seismic hazards are mapped at the site.
- Steep slope hazard areas mapped along the northern portion of the project alignment. These areas are classified as a severe hazard.
- Two streams are mapped with a 150-foot stream buffer in the southern portion of the alignment, crossing 67th Avenue NE at 204th Street NE and just south of 211th Place NE.
- Wetland critical areas are mapped along the northwest portion of the alignment as well as in the southeast portion of the alignment, within the stream buffer zone.

We also completed a geologic reconnaissance of the site to better define and confirm the critical areas identified during our map review. Our reconnaissance indicates that the critical areas are portrayed fairly accurately in the published maps. Along the southern portion of the alignment, we observed no evidence of soil exposure on the slopes, landslide scarps, hummocky features, tension cracks, surface displacement, groundwater seeps or any other indication of slope instability on the native or fill slope areas.

SUBSURFACE EXPLORATIONS

Soil Conditions

We evaluated the subsurface conditions at the site by drilling nine borings (MW-1, B-2, B-3, MW-4, B-5, MW-6, and B-7 through B-9) to depths ranging from 11½ to 26½ feet below the ground surface (bgs) at the approximate locations shown on Figures 2, 3, and 4. Monitoring wells were

installed in three of the borings, MW-1, MW-4, and MW-6. Figures A-2 through A-10 in Attachment A present a detailed description of our field exploration procedures and logs of the nine explorations.

The subsurface conditions encountered in the borings generally include 6 to 8 inches of grass/sod and root zone horizon underlain by 4½ to 9 feet of fill. Recessional outwash deposits were encountered below the fill and extended to the maximum depth explored in each boring.

The grass/sod layer consisted of silty sand with gravel, roots and other organic matter in the upper 6 to 8 inches. The fill soil generally consists of loose to medium dense silty sand with varying amounts of gravel and cobbles. The thickness of the fill layer ranges from 4½ to 9 feet and is likely associated with previous grading activities at the site. The recessional outwash consists of medium dense to very dense sand and gravel with varying amounts of silt and cobble content. Large cobbles and boulders were not encountered in the borings we completed; however, large cobbles and boulders are known to occur in recessional outwash soils.

Groundwater Conditions

Static groundwater was not observed in any of the borings at the time of exploration. We did encounter evidence of perched water in borings MW-6 and B-9 at 10 and 15 feet below ground surface, respectively. Groundwater observations represent conditions observed during drilling and may not represent the groundwater conditions throughout the year. Groundwater conditions are expected to fluctuate as a result of season, precipitation and other factors.

CONCLUSIONS AND RECOMMENDATIONS

General

We conclude that the proposed roadway improvement for the 67th Avenue Phase III project can be successfully completed from a geotechnical perspective provided the considerations presented in this report are incorporated in the project planning and design. A summary of the geotechnical considerations is provided below:

- Based on our observations of the site and the results of the soil explorations, it is our opinion that the proposed retaining walls and bridge foundations can be constructed on conventional shallow foundations. Foundation support may consist of conventional shallow footings supported on the native soil or structural fill placed over native soil. We recommend an allowable soil bearing pressure of 4,000 pounds per square foot (psf) be used for footings supported by native medium dense soil or structural fill placed over native soil.
- We anticipate that the soils at the site can be excavated using conventional construction equipment. However, cobbles were encountered in our explorations, and the contractor should be prepared to deal with cobbles and boulders in the outwash soils. Ideally, earthwork should be undertaken during extended periods of dry weather when the soils will be less susceptible to disturbance and provide better support for construction equipment. Dry weather construction will help reduce earthwork costs.
- Effective erosion and sedimentation control must be implemented during construction so that potential impacts to the adjacent sensitive areas are reduced. The erosion potential of the

on-site soils is moderate to high. The erosion and sedimentation control measures used for this project should be in accordance with applicable regulatory standards.

- The soils below the bottom of the planned infiltration facilities are medium dense to dense and contain a variable percentage of fines, which limits the infiltration capacity. Preliminary estimates of infiltration performance based on published correlations indicate design infiltration rates are in the range of 0.5 to 3 inches per hour.

The following sections of this report present our conclusions and recommendations for site development, foundation support and performance estimates for the associated site developments.

Site Preparation and Earthwork

General

We recommend that site preparation and earthwork be completed during the normally dry season of the year (generally July through September) if practical, as the workability of the soil becomes difficult and the erosion potential of the on-site soils is increased during extended periods of wet weather.

Earthwork Considerations

Grass/sod, fill, and outwash deposits were observed in the explorations. We anticipate that these soils can be excavated with conventional excavation equipment, such as trackhoes or dozers. Cobbles were encountered in our explorations, and the contractor should be prepared to deal with cobbles and boulders in the fill and outwash.

Clearing and Grubbing

The work area should be cleared of all surface and subsurface deleterious matter, including debris, trees, shrubs and associated stumps and root wads, and should be stripped of the sod and organic soil. The woody debris should be removed from the project site for disposal. Based on our experience, we anticipate that stripping depths will generally be less than 8 inches. The stripped vegetative material and organic soil can be stockpiled and later reused in landscaping if desirable.

Removal and demolition of existing structures should include removal of below-grade elements. Existing voids or new depressions created during site preparation should be cleaned of loose soil or debris and backfilled with structural fill.

Sedimentation and Erosion Control

In our opinion, the erosion potential of the undisturbed on-site soils is moderate to high. Excavation work on the sloping portions of the roadway corridor will expose soils to potential erosion.

The amount and potential impacts of erosion are in part a function of the time of year construction occurs. Wet weather construction will increase the amount and extent of erosion. We expect that exposed soils will have moderate erosion potential during wet weather. It will therefore be necessary to put in place effective erosion controls during and after construction. These should

include proper control of surface water runoff to prevent uncontrolled, concentrated surface water runoff over slope areas and minimizing the time of exposure in the areas stripped during construction through prompt re-vegetation.

Effective erosion and sedimentation control during construction may consist of interceptor swales and silt fences to prevent water from flowing off site. Because the runoff is likely to be silty, we recommend that the collected water be passed through a temporary desilting facility prior to discharging the water into the stormwater collection system. Completion of initial clearing and grading activities during the drier months and limiting the disturbance of the existing ground surface and vegetation where possible will also reduce the risks of erosion. Material stockpiles should be covered during wet weather to prevent erosion and soil loss. All areas disturbed during construction should be seeded and planted as soon as practical to reduce the potential for erosion. Erosion and sedimentation control measures should be installed and maintained in accordance with applicable regulatory standards.

Subgrade Preparation

We recommend that all subgrade soils be evaluated by a representative of GeoEngineers before placement of structural fill, wall foundation, and roadway/sidewalk construction to identify any soft or unsuitable subgrade soils. Any soft or unsuitable subgrade soils that are observed during this evaluation should be removed and replaced with compacted structural fill. Where subgrade soils have high fines content, construction during the wet season can result in significant disturbance. In areas where high fines content are observed in the subgrade soils, we recommend 2 to 4 inches of crushed rock be placed on the prepared foundation subgrade to protect it and avoid softening the silty subgrade soils during wet weather construction. Haul roads and laydown areas should also include crushed rock surfacing to protect them during wet weather construction.

Structural Fill

All fill, whether on-site or imported soil, that will support pavement areas or foundations, or in utility trenches should meet the criteria for structural fill presented below. The suitability of soil for use as structural fill depends on its gradation and moisture content.

MATERIALS

Structural fill material quality varies depending upon its use, as described below:

1. Structural fill placed to construct embankments, to backfill utility trenches, to support wall foundations and to provide subgrade for pavement should consist of common borrow as described in Section 9-03.14(3) of the 2010 Washington State Department of Transportation (WSDOT) Standard Specifications. If structural fill is placed during wet weather, it should consist of gravel borrow as described in Section 9-03.14(1) of the 2010 WSDOT Standard Specifications.
2. Structural fill placed adjacent to below-grade and retaining walls (drainage zone) should consist of gravel backfill for walls in conformance with Section 9-03.12(2) of the 2010 WSDOT Standard Specifications.
3. Structural fill placed as crushed surfacing base course below pavements should conform to Section 9-03.9(3) of the 2010 WSDOT Standard Specifications.

USE OF ON-SITE SOILS

Most of the near-surface soils observed in the explorations generally contain a high percentage of fines (silt/clay) and are moisture-sensitive. Portions of the on-site soils that meet the requirements for common borrow may be suitable for use as common borrow during dry weather, provided it can be properly moisture-conditioned prior to placement. These soils will likely be limited to the sand, sand with silt, and gravel encountered in the borings.

The on-site soils that meet the requirements for common borrow are expected to be suitable for structural fill in areas requiring compaction to at least 95 percent of the maximum dry density (MDD) estimated in general accordance with American Society for Testing and Materials (ASTM) D 1557, provided the work is completed during the normally dry season (June through September) and that the soil can be properly moisture-conditioned. It may be necessary to import sand and gravel with a low fines content to achieve adequate compaction for support of pavement areas for wet weather construction. Imported structural fill consisting of sand and gravel (WSDOT gravel borrow) should be planned if construction occurs during wet weather.

The use of on-site soils that meet the requirements for common borrow as structural fill during wet weather should be planned only for areas requiring compaction to 90 percent of the MDD or less, as long as the soils are properly protected from wet weather and not placed during periods of precipitation. The contractor should plan to cover and maintain all fill stockpiles with plastic sheeting if the soil will be used as structural fill. The reuse of on-site soils is highly dependent on the skill of the contractor and the schedule, and we will work with the design team and contractor to maximize the reuse of on-site soils during the wet and dry seasons.

STRUCTURAL FILL PLACEMENT

Structural fill should generally be placed in loose lifts not exceeding about 8 to 10 inches in thickness. Each lift should be conditioned to the proper moisture content and compacted to the specified density before placing subsequent lifts. If structure fill is placed adjacent to existing slopes, the existing slope should be benched prior to the fill placement and compaction to avoid an unstable interface zone. Structural fill placed in areas used to support footings or retaining walls should be compacted to at least 95 percent of MDD as determined by the ASTM D-1557 test method. Pavement area fill, including utility trench backfill, should be compacted to at least 90 percent of MDD, except for the upper 2 feet below finished subgrade surface, which should be compacted to at least 95 percent of MDD. Structural fill to support sidewalks should be placed after the subgrade is evaluated and be compacted to at least 90 percent of MDD.

We recommend that a representative from GeoEngineers, Inc. be present during structural fill placement to observe the work and perform in-place density tests to evaluate whether or not the specified compaction is being achieved.

Excavations

General

Trafficability on the site is not expected to be difficult during dry weather conditions. However, the fill soils will be susceptible to disturbance from construction equipment during wet weather conditions, and pumping and rutting of the exposed soils under equipment loads may occur. Ideally, earthwork should be undertaken during extended periods of dry weather, when the surficial

soils will be less susceptible to disturbance and provide better support for construction equipment. Dry weather construction will help reduce earthwork costs and increase the potential for reusing the on-site soils as fill.

Temporary and Permanent Slopes

All temporary cut slopes must comply with the provisions of Title 296 Washington Administrative Code (WAC), Part N, "Excavation, Trenching and Shoring." The contractor performing the work has the primary responsibility for protection of workers and adjacent improvements.

Temporary cut slopes may be utilized around the site during construction. We recommend that temporary cut slopes be inclined no steeper than 1½:1 (horizontal to vertical). Flatter slopes may be necessary if seepage is present on the face of the cut slopes or if localized sloughing occurs.

Because the contractor has control of the construction operations, the contractor should be made responsible for the stability of cut slopes, as well as the safety of the excavations. Shoring and temporary slopes must conform to applicable local, state and federal safety regulations. The final configuration for temporary excavation slopes should be evaluated during construction, as it is a function of the soil and groundwater conditions encountered and the contractor's approach to excavation.

Permanent cut and fill slopes should be inclined no steeper than 2H:1V except along the creeks. Permanent creek banks should be inclined no steeper than 3H:1V. Permanent slopes should be planted or hydroseeded as soon as practicable after grading. We recommend that all fill be placed as structural fill, as described above.

Slope Stability Assessment

Based on our explorations and geotechnical evaluation, it is our opinion that there is low risk of slope instability within the project area. Our assessment assumes that the existing slopes associated with the creek channel will not be compromised by temporary oversteeping and/or the removal of vegetation. In addition, we conclude that permanent slopes constructed in accordance with the recommendations in the Earthwork section of this report will perform well from a slope stability standpoint.

Construction Dewatering

General

Static groundwater was not observed in any of the borings at the time of exploration. Therefore, shallow facilities such as utility trenches and traffic signal or luminaire foundations will likely not encounter groundwater.

Dewatering during construction of the new culverts and possibly the pedestrian bridge may be required, even if the creeks are diverted (piped) during construction. Conservatively, local groundwater levels during construction of the culverts should be assumed at the same elevation as the corresponding water levels in the nearby creek. Based on the soil conditions and our experience in the area, we expect that groundwater in excavations less than about 1 to 2 feet below the static groundwater level can be controlled by open pumping using sump pumps.

For excavations deeper than 2 feet below the water table, or in artesian water conditions, dewatering using well points or deep wells might be necessary. We recommend that the contractor be required to submit a proposed dewatering system design and plan layout to the City of Arlington and the Engineer for review and comment prior to beginning construction.

The level of effort required for dewatering will depend to a great extent on the time of year during which construction is accomplished. Less seepage into the work areas should be expected if construction is accomplished in the late summer or early fall months, and correspondingly, more seepage should be expected during the wetter periods of the year. We recommend that construction be completed in the late summer or early fall months when the creek flows are typically at their lowest. In our opinion, this will result in significant cost savings for the dewatering.

A general discussion of the dewatering methods anticipated for the project is presented below.

Open Pumping

This dewatering method involves removing water that has seeped into the excavation by pumping from a sump that has been excavated at one end of the excavation or trench. Drainage ditches that are connected to the sump are typically excavated along the sidewalls at the base of the excavation or trench. The excavation for the sump and the drainage ditches should be backfilled with gravel or crushed rock to reduce the amount of erosion and associated sediment in the water pumped from the sump. In our experience, a slotted casing or perforated 55-gallon drum that is installed in the sump backfill provides a suitable housing for a submersible pump.

The amount of water removed from the excavation by open pumping should be minimized because of high turbidity levels. Temporary storage of dewatering effluent from the sumps in a settlement tank or basin may be required to meet discharge permit requirements and reduce sediment content prior to discharging the water to surface water courses.

Pumped Wells

Individually pumped wells may be considered for dewatering the construction areas. Pumped wells that have been properly installed and developed are capable of producing the high discharge rates that are necessary to dewater highly permeable sand deposits. Pumped wells are generally the most effective dewatering method in areas where dewatering to deeper than about 15 feet below the ground surface is necessary.

We recommend that all dewatering wells installed for this project be properly developed to remove fine sediment from the immediate vicinity of the well screens. Proper development is essential for producing efficient wells and greatly reduces the turbidity of the water discharged from the well. Filter packs consisting of graded sand, or sand and fine gravel should be installed around the well screens in areas where the aquifer contains a high percentage of fine sand and silt.

Well Points

Well points are effective for dewatering all types of soils, whether pumping small amounts of water from silt or large quantities of water from coarse sand and gravel. The volume of water generated by a well point system is typically less than the volume generated by a corresponding system of pumped wells because the well points are generally completed at a shallower depth. Because of

the shallower completion depth, the volume of aquifer that contributes water to a well point system is less than for a comparable deep well system.

Well point systems are most suitable for dewatering shallow excavations where the water table must be lowered no more than about 15 feet below ground surface. Multiple well point stages are generally required beyond that depth because of the physical limitations of suction lift. Dewatering can be accomplished at depths greater than 15 feet where the excavation can be open cut to permit installation of the well point system below original grade. This technique increases the depth to which the water table can be lowered with well points.

Earthquake Engineering

Design Earthquake Parameters

The seismic design of the proposed improvements can be completed using the design criteria presented in the American Association of State Highway and Transportation Officials (AASHTO) seismic design information. The AASHTO Guide Specifications recommend a 7 percent probability of exceedance in 75 years (nominal 1,000-year earthquake) design event for development of a design spectrum. Based on these criteria, we recommend the parameters for site class, seismic zone, acceleration coefficient and spectral acceleration coefficients presented in the following table.

AASHTO SEISMIC PARAMETERS

AASHTO Seismic Parameter	Recommended Value
Site Class	D
Seismic Zone for $0.30 < S_{D1} \leq 0.50$	3
Effective Peak Ground Acceleration Coefficient $A_s = F_{pga}PGA = (1.17)(0.333)$	0.39
Design Spectral Acceleration Coefficient at 0.2 Second period $S_{DS} = F_a S_s = (1.20)(0.753)$	0.904
Design Spectral Acceleration Coefficient at 1.0 Second period $S_{D1} = F_v S_1 = (1.89)(0.255)$	0.482

Seismic Hazards

We evaluated the site conditions for seismic hazards including liquefaction, lateral spreading and seismically induced landsliding. Our evaluation indicates the site has low risk of liquefaction because of the relatively low groundwater and presence of medium dense to very dense outwash deposits below the site. Because there is a low risk of liquefaction, the site has a low risk of liquefaction-induced ground disturbance including lateral spreading. Our evaluation of seismically induced landsliding indicates that there is also a low risk for seismically induced landsliding.

Shallow Foundations

General

Based on soils observed in our explorations located near the proposed culverts and pedestrian bridge (MW-1, B-3, and B-9), we anticipate that medium dense or denser sand and gravel soils (recessional outwash) will be present below approximately 5 feet from existing grades. We recommend that the proposed bridge structure or culverts be supported on conventional spread footings bearing on the native sand and gravel soils observed in the borings at and below about 5 feet from existing grades, or on properly placed and compacted structural fill that extends down to the competent native soils.

Foundation Design Parameters

Footings may be designed using an allowable soil bearing value of 4 kips per square foot (ksf) on properly compacted structural fill or native medium dense or denser sand and gravel soils. The allowable soil bearing values apply to the total of dead and long-term live loads and may be increased by up to one-third for wind or seismic loads. Footings should be at least two-feet-wide.

Where bridge footings are sited on or near sloping ground such as a creek bank, we recommend that the bridge footings be founded a minimum of 4 feet below the lowest adjacent grade. In level ground areas, the bridge footings should be founded a minimum of 2 feet below the lowest adjacent grade. Culvert footings should be founded a minimum of 2 feet below the level of the creek channel bottom.

Settlement

Provided all loose soil is removed and the subgrade is prepared as recommended under "Construction Considerations" below, we estimate the total settlement of shallow foundations will be on the order of ½ to 1 inch. The settlements will occur rapidly, essentially as loads are applied. Differential settlement between the bridge abutments is expected to be less than 1 inch.

Lateral Resistance

Lateral foundation loads may be resisted by passive resistance on the sides of footings and by friction on the base of the footings. For footings supported on native soils or on structural fill placed and compacted in accordance with our recommendations, the allowable frictional resistance may be computed using a coefficient of friction of 0.4 applied to vertical dead-load forces.

The allowable passive resistance of soils may be computed using an equivalent fluid density of 300 pounds per cubic foot (pcf) (triangular distribution) if these elements are poured directly against undisturbed native soils or surrounded by structural fill. No passive resistance should be allowed for soils located on the creek-side of the abutment.

The above coefficient of friction and passive equivalent fluid density values incorporate a factor of safety of about 1.5.

Construction Considerations

Subgrade disturbance may occur if footing excavations are completed during wet weather. A working mat of lean concrete or compacted crushed rock should be placed over the footing subgrade immediately following excavation to prevent softening and disturbance of the footing subgrade if construction occurs during wet weather.

If soft areas are present at the footing subgrade elevation, the soft areas should be removed and replaced with structural fill at the direction of the Geotechnical Engineer. In such instances, the zone of structural fill should extend laterally beyond the footing edges a horizontal distance at least equal to the thickness of the fill.

Given the relatively high allowable bearing pressures presented above, the condition of all footing excavations must be observed by the Geotechnical Engineer or their representative to evaluate if the work is completed in accordance with our recommendations and that the subsurface conditions are as anticipated.

Pile Foundation Support

In our opinion the proposed bridge may be supported on 3-inch or 4-inch diameter driven steel pipe piles. We recommend that the pipe piles be galvanized. The pipe pile spacing should be determined by the project structural engineer.

We recommend that the driven steel pipe piles be installed using pneumatic impact equipment capable of penetrating a sufficient depth to develop the design loads. Local contractors have developed pile driving criteria for various sizes of pneumatic impact equipment for the two sizes of pipe piles. The following table presents practical refusal driving criteria for the two pile sizes and various hammer weights.

Hammer Size	3-inch	4-inch
850 lbs	10 sec/inch	16 sec/inch
1100 lbs	6 sec/inch	10 sec/inch

We recommend that 3-inch and 4-inch diameter piles installed as recommended be designed for allowable capacities of 6 and 10 tons, respectively. We estimate that foundation total settlements of less than ½ inch will develop for properly installed pipe piles

On the basis of the available data, we estimate that the pile embedment lengths will be on the order of 25 feet, or a minimum embedment depth of 10 feet into the bearing soil. Typically 3-inch and 4-inch diameter piles come in 20 foot sections. Accordingly, the contractor installing the pipe piles should be prepared to splice and extend the piles until the required refusal rate and capacity is achieved.

Traffic Signal and Luminaire Foundations

We understand that new traffic signals and luminaires are planned for the project. Pole foundation dimensions and loading have not been finalized; however, we anticipate that all project poles

and foundations will comply with WSDOT preapproved signal pole and foundation designs. The following recommendations are based on the WSDOT GDM.

New signal poles may be designed using a soil unit weight of 125 pcf, a soil friction angle of 30 degrees, and an allowable lateral bearing pressure of 1,500 psf. Alternatively, these poles can be sized using a standard foundation in accordance with Exhibit 1330-13 of the WSDOT Design Manual M 22-01.06 (June 2009) and a lateral bearing pressure of 1,500 psf. It should be noted that the June 2009 Design Manual is now superseded; however, the current Design Manual dated December 2009 does not include the standard signal pole foundation depth chart. In our opinion, the June 2009 Design Manual is appropriate for the design of traffic signals and luminaire foundations for this project.

Retaining/Abutment Walls

General

We recommend that the proposed bridge abutments consist of concrete cantilever walls bearing on shallow foundations. If retaining walls are necessary to retain the approach fills along the sides of each abutment, we recommend that these walls consist of concrete cantilever walls. The following paragraphs present our recommendations for retaining walls.

If the retaining walls are restrained against rotation, we recommend that the walls be designed for an at-rest earth pressure taken as an equivalent fluid density of 55 pcf. Rigid walls are walls that deflect less than about 0.002H under the at-rest pressure loading, where H is the height of the retaining wall. Once the wall moves approximately 0.002H, the active pressure state is achieved. For retaining walls that are allowed to deflect about 0.002H under loading, we recommend that the walls be designed for the active earth pressure taken as an equivalent fluid density of 35 pcf for well-draining gravel backfill for walls. If the ground within 5 feet of the retaining wall rises at an inclination of 2H:1V or steeper, the retaining wall should be designed using an equivalent fluid density of 60 pcf. For adjacent slopes flatter than 2H:1V, soil pressures can be interpolated between this range of values. Other conditions should be evaluated on a case-by-case basis.

Typically, retaining walls are designed for a surcharge pressure for traffic loading. For traffic loading, we recommend that retaining walls be designed for a uniform surcharge pressure determined by increasing the height of the wall by 2 feet. Other surcharge loads should be included as appropriate.

If seismic earth pressure are considered in design we recommend that a rectangular seismic earth pressure distribution equal to 7H in pounds per square foot (where H is the wall height) be added to the static lateral earth pressures presented above for the rigid wall or active earth pressure condition, whichever is appropriate.

Drainage

The above lateral earth pressures assume that the backfill behind the retaining walls is drained. Drainage consisting of either a perforated drain pipe installed near the base of the retaining walls or installation of weepholes near the base of the retaining wall should be incorporated in the design. If a drain pipe is used, the drains should consist of a perforated pipe a minimum

of 4 inches in diameter enveloped within a minimum thickness of 6 inches of gravel backfill for drains, WSDOT Standard Specification 9-03.12(4). Clean-outs for the collector pipe should be installed as appropriate. Alternatively, the walls can be provided with weepholes designed in accordance with WSDOT Standard Plans.

Construction Considerations

Backfill placed within 5 feet of below grade walls should be compacted to densities of at least 90 percent of the maximum dry density (MDD) obtained in accordance with the ASTM D-1557 procedure to reduce the potential for development of excess pressure on the walls. If sidewalks or pavement will be placed adjacent to the wall, we recommend that the upper 2 feet of fill be compacted to 95 percent of the MDD. Measures should be taken to prevent the buildup of excess lateral soil pressures due to over-compaction of the backfill behind the wall; for example, by using hand-operated mechanical vibrators.

For walls designed to retain the approach fills, the walls should bear on the native soils or on properly placed structural fill that extends down to the competent native soils. Approach fill retaining walls should be embedded at least 2 feet below finished grade where the ground surface is inclined less than 2H:1V.

Stormwater Infiltration

Recommended Infiltration Values

Two methods were used to evaluate an appropriate design (long-term) infiltration rate for the soils encountered in the explorations. The two methods consist of correlations based on United States Department of Agriculture (USDA) soil textural classification and ASTM gradation testing, as discussed in Section 3.3.6 of the Stormwater Management Manual for Western Washington (Ecology, 2005).

The following table presents a summary of the subsurface soil and groundwater conditions encountered in selected explorations and the estimated infiltration rate based on the USDA textural class and on ASTM laboratory gradation testing.

Test Pit	Sample Depth (feet)	Classification	USDA Textural Class	ASTM D ₁₀ (mm)	Approximate Groundwater Depth (ft) ¹	Estimate of Infiltration Rate (inches/hour) ¹	
						USDA	ASTM
MW-1	5	SP-SM	Sand	0.15	Not Encountered	2	3
MW-1	10	SP-SM	Sand	0.15	Not Encountered	2	3
B-2	10	GW-GM	Loamy Sand	0.075	Not Encountered	0.5	1.5
B-3	5	SP-SM	Loamy Sand/Sand	0.25	Not Encountered	2	5
B-3	21½	SM	Loamy Sand/Sand	0.05	Not Encountered	2	0.8

Test Pit	Sample Depth (feet)	Classification	USDA Textural Class	ASTM D ₁₀ (mm)	Approximate Groundwater Depth (ft) ¹	Estimate of Infiltration Rate (inches/hour) ¹	
						USDA	ASTM
MW-4	5	SW-SM	Sand	0.075	Not Encountered	2	1.5
MW-4	7½	SP-SM	Loamy Sand/Sand	0.1	Not Encountered	2	2
B-5	5	SP-SM	Loamy Sand	0.075	Not Encountered	0.5	1.5
B-5	7½	SM	Silty Loam	<0.05	Not Encountered	-	-
MW-6	5	SM	Loamy Sand	0.05	Not Encountered	0.5	0.8
MW-6	15	SP-SM	Loamy Sand	0.075	Not Encountered	0.5	1.5
B-7	10	SM	Sandy Loam	0.05	Not Encountered	0.25	0.8
B-8	7½	SM	Loamy Sand	0.05	Not Encountered	0.5	0.8
B-9	5	GP-GM	Loamy Sand/Sand	0.2	Not Encountered	2	3.5
B-9	7½	GW-GM	Loamy Sand	0.15	Not Encountered	0.5	3

Notes:

¹Infiltration rates shown for two different methodologies (Ecology, 2005).

The native soils encountered in areas where infiltration is being considered consist of medium dense to very dense sand and gravel with varying silt content. In areas the soils may contain a significant percentage of fines, which limits the infiltration capacity. Infiltration is generally not considered feasible/practical for soils with an infiltration capacity less than 0.25 inches per hour. Based on our analysis, it is our opinion that the on-site soils are generally suitable for moderate stormwater infiltration.

Drainage Considerations

General

We recommend that all surfaces be sloped to drain away from the existing and proposed structures and improvements. Pavement surfaces and open space areas should be sloped such that the surface water is collected and routed to suitable discharge points.

We anticipate that shallow groundwater seepage may enter excavations depending on the time of year construction takes place, especially in the winter months. However, we expect that this seepage water can be handled by digging interceptor trenches in the excavations and pumping from sumps. If not intercepted and removed from the excavations, the seepage water will make it difficult to place and compact structural fill and may destabilize cut slopes.

Pavement Recommendations

The design of the pavement areas will depend significantly on whether the pavement is intended to be traditional hot mix asphalt (HMA) or porous pavement. Our recommendations for design of porous and traditional HMA pavement sections are presented in the following sections.

Porous Pavement Design

GENERAL

The design of porous pavements for stormwater management should consider storage capacity of the pervious pavement system and infiltration rate of the subgrade soils, as well as water quality treatment. Porous pavement may consist of porous concrete, porous HMA, porous pavers or some type of stabilized gravel surface. Our recommendations for design of porous pavement are presented in the following subsections.

INFILTRATION

The long-term infiltration rate is dependent on several factors, including site variability, degree of long-term maintenance, pretreatment for total suspended solids and depth to groundwater. For design of porous pavements, it is typically assumed that there will be low to moderate long-term maintenance and pretreatment. Refer to our “Stormwater Infiltration” section of this report for recommended infiltration rate values.

STORAGE CAPACITY

The total stormwater storage capacity of the porous pavement system includes the capacity of the porous pavement and the capacity of the crushed rock subbase and underlying on-site soils in the planned improvement areas. The storage capacity is directly dependant on the effective porosity (or percent voids that can be filled with stormwater) of the pavement, subbase, and on-site materials. The porosity of pervious pavement depends on the mix design. The effective porosity used for design should be adjusted to account for naturally occurring moisture.

We recommend that shoulder ballast be used for the crushed rock subbase below the porous pavement. The shoulder ballast should meet the criteria described in Section 9-03.9(2) of the WSDOT Standard Specifications. Based on previous laboratory testing of crushed rock samples (1¼-inch and 5⁄8-inch clean crushed rock), we anticipate a total porosity of approximately 40 to 45 percent. For design, we recommend an effective porosity of 35 percent to account for natural moisture. The storage capacity for the crushed rock subbase should be calculated by multiplying the volume of subbase by the effective porosity. Typical subbase thicknesses range from 12 to 36 inches, depending on storage needs. A minimum of 12 inches of subbase should be used at this site to provide adequate support of traffic and to help “bridge” over the amended subgrade soils.

Additionally, landscaping areas adjacent to the pavement should be sloped to drain away from the path so that fines in runoff from the landscaping areas can be prevented from contaminating the pavement and crushed rock and reducing the storage capacity.

WATER QUALITY TREATMENT

Pavement areas are pollution-generating sources, and oils occur most prominently on busy streets and busy portions of parking lots. If porous paving is used, we recommend that the

upper 2 feet of the underlying subgrade soils be mixed with compost at a rate of approximately 10 percent compost to 90 percent soil (per volume). Compost used for amending the subgrade soils below porous pavements must meet the Washington State compost regulations in Chapter 173-350 Washington Administrative Code (WAC), which is available at <http://www.ecy.wa.gov/programs/compost>. The 2 feet of mixed soil should be recompacted to a minimum of 90 percent of the MDD per ASTM D 1557.

It is our opinion that the amended subgrade soils will meet the Washington State Department of Ecology (Ecology) requirements for “treatment soils” with a minimum Cation Exchange Capacity (CEC) of 5 microequivalents (meq). We recommend that CEC testing of the amended subgrade soils be completed during construction to verify that the soil meets Ecology requirements. The organics in the topsoil attract and bind contaminants typically found in runoff from pavement areas, and studies have shown that when stormwater is infiltrated through soils with adequate CEC, the groundwater leaving the site typically has contaminant levels equivalent to undeveloped areas. Additionally, studies have shown that porous pavement breaks down some oil pollutants through the biochemical activity of microbiota that use the pavement as a substrate (Ferguson, 2005).

Conventional Pavement Design

DESIGN CONSIDERATIONS

We recommend that the subgrade soils in conventional pavement areas be prepared and evaluated as described below in the “Site Preparation and Earthwork” section of this report. Based on the results of our laboratory California Bearing Ratio test of a composite sample taken from the site a CBR value of about 23 can be used for pavement design.

For conventional HMA pavement, based on City of Arlington Department of Public Works Standard Details for a typical roadway section, recommends at least 3 inches of HMA, Class B over 4 inches of asphalt treated base (ATB), and 6 inches of crushed rock base course. The crushed rock base course should meet the requirements of Section 9-03.9(3) of the WSDOT Standard Specifications.

The crushed rock base course should be compacted to at least 95 percent of the MDD prior to the placement of the asphalt concrete. We recommend that the geotechnical engineer observe the proof-rolling of the compacted base course prior to paving.

LIMITATIONS

We have prepared this report for the exclusive use by HDR Engineering Inc, and their authorized agents for the geotechnical elements of the proposed 67th Avenue Phase III Improvement project to be located in Arlington Harbor, Washington.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in the field of geotechnical engineering in this area at the time this report was prepared. No warranty or other conditions, expressed or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Please refer to the attachment titled Report Limitations and Guidelines for Use for additional information pertaining to use of this report.

REFERENCES

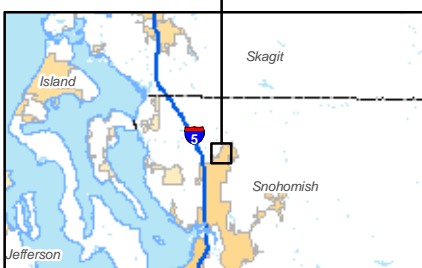
Ferguson, Bruce K., "Porous Pavements," 2005.

Minard, "Geologic Map of the Arlington West 75 Minute Quad, Snohomish County, Washinton," 1985.

Washington State Department of Ecology, "Stormwater Management Manual for Western Washington." 2005.

Washington State Department of Transportation, "Standard Specifications for Road, Bridge and Municipal Construction," 2010.

DRAFT



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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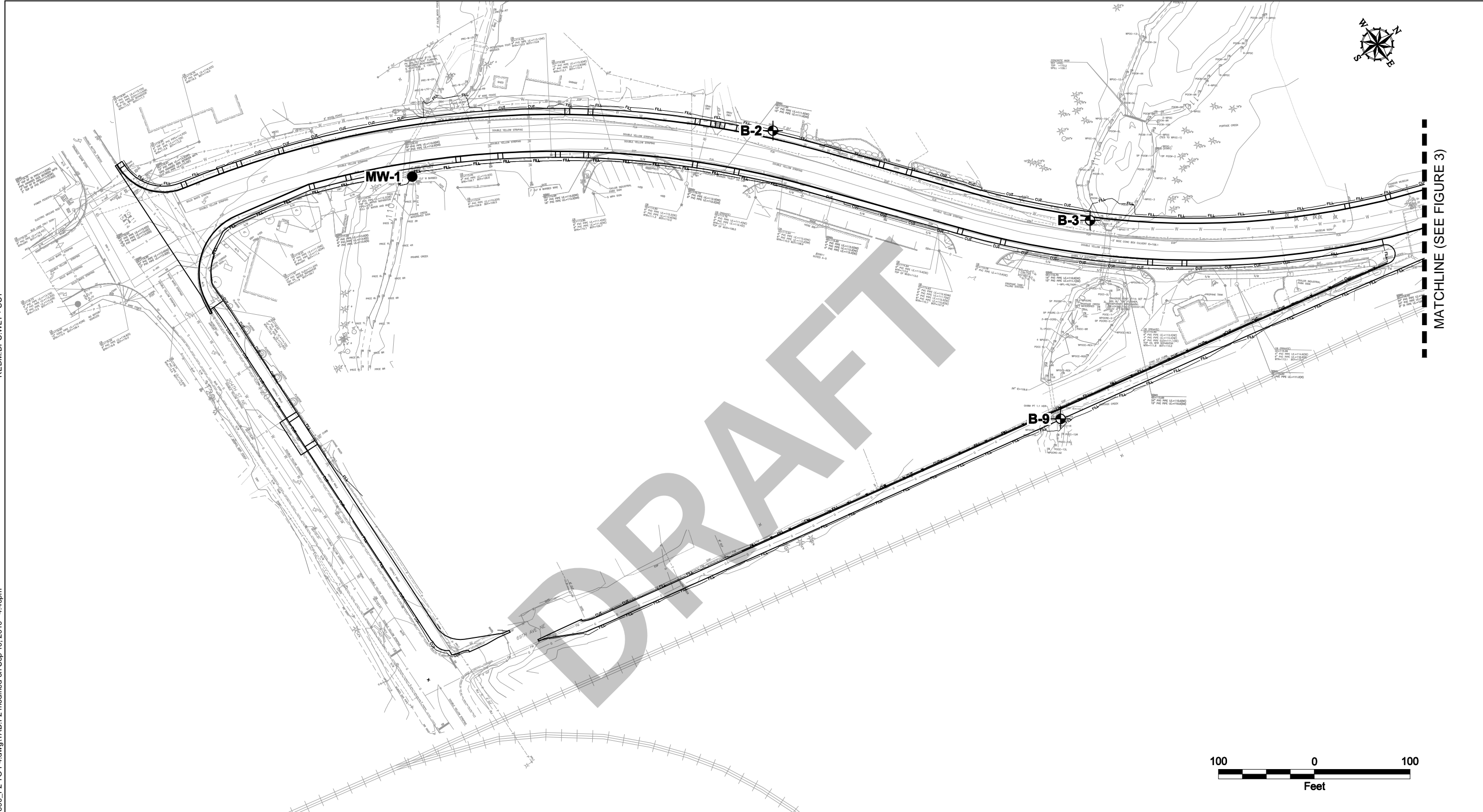
Data Sources: ESRI Data & Maps, Street Maps 2005
 Transverse Mercator, Zone 10 N North, North American Datum 1983
 North arrow oriented to grid north





Vicinity Map	
67th Avenue Phase III Improvement Project Arlington, Washington	
	Figure 1

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Legend

- B-2**  Proposed boring location
- MW-1**  Proposed monitoring well location

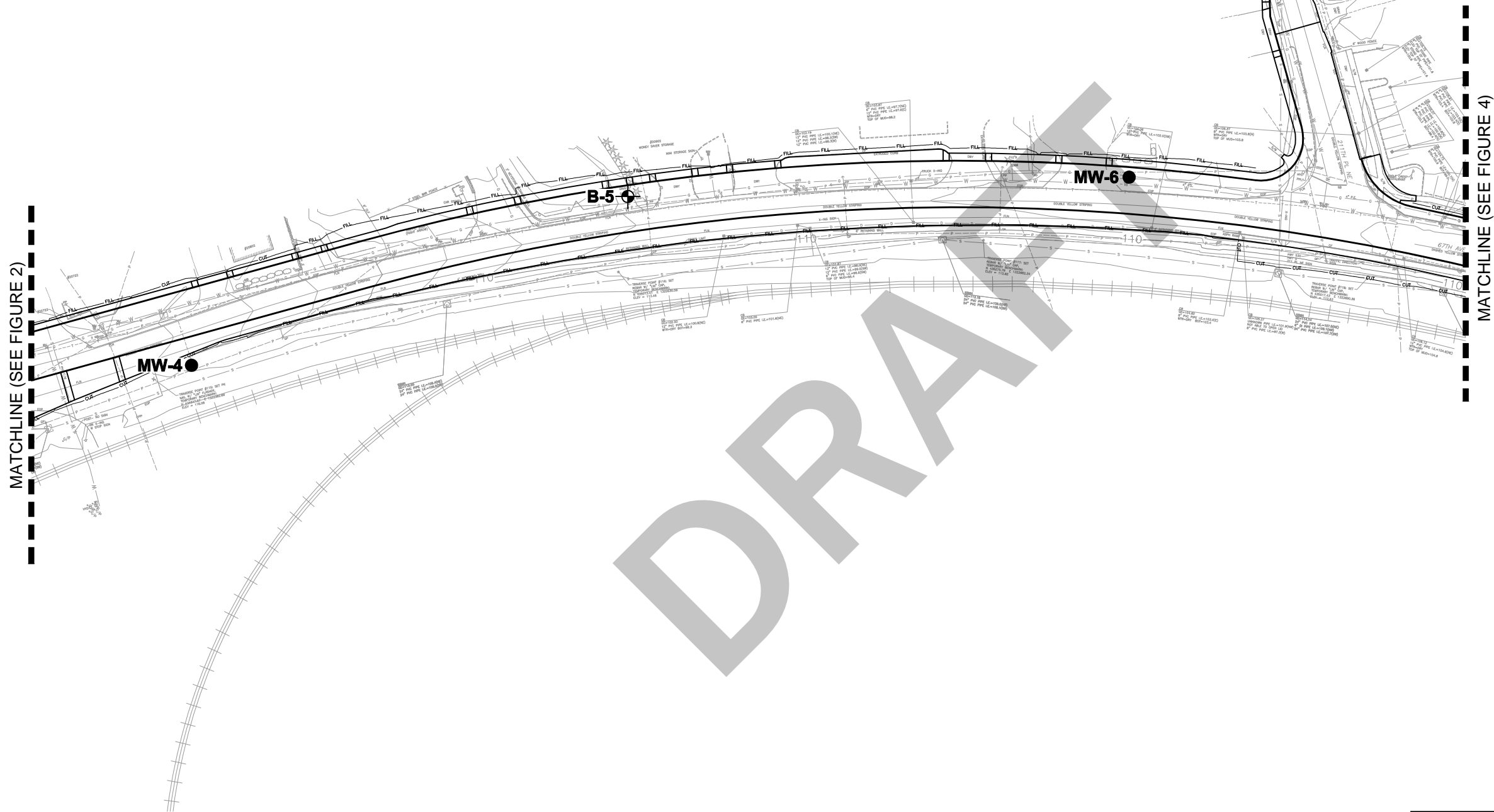
Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawing provided by HDR Engineering, Inc. from CAD drawings "00V-BP01-01.dwg, 00V-BP02-01.dwg, and 00C-SP03-20.dwg" dated 7/23/10.

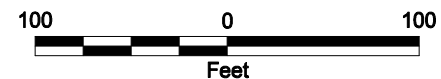


Site Plan	
67th Avenue Phase III Improvement Project Arlington, Washington	
GEOENGINEERS 	Figure 2



MATCHLINE (SEE FIGURE 2)

MATCHLINE (SEE FIGURE 4)



Legend

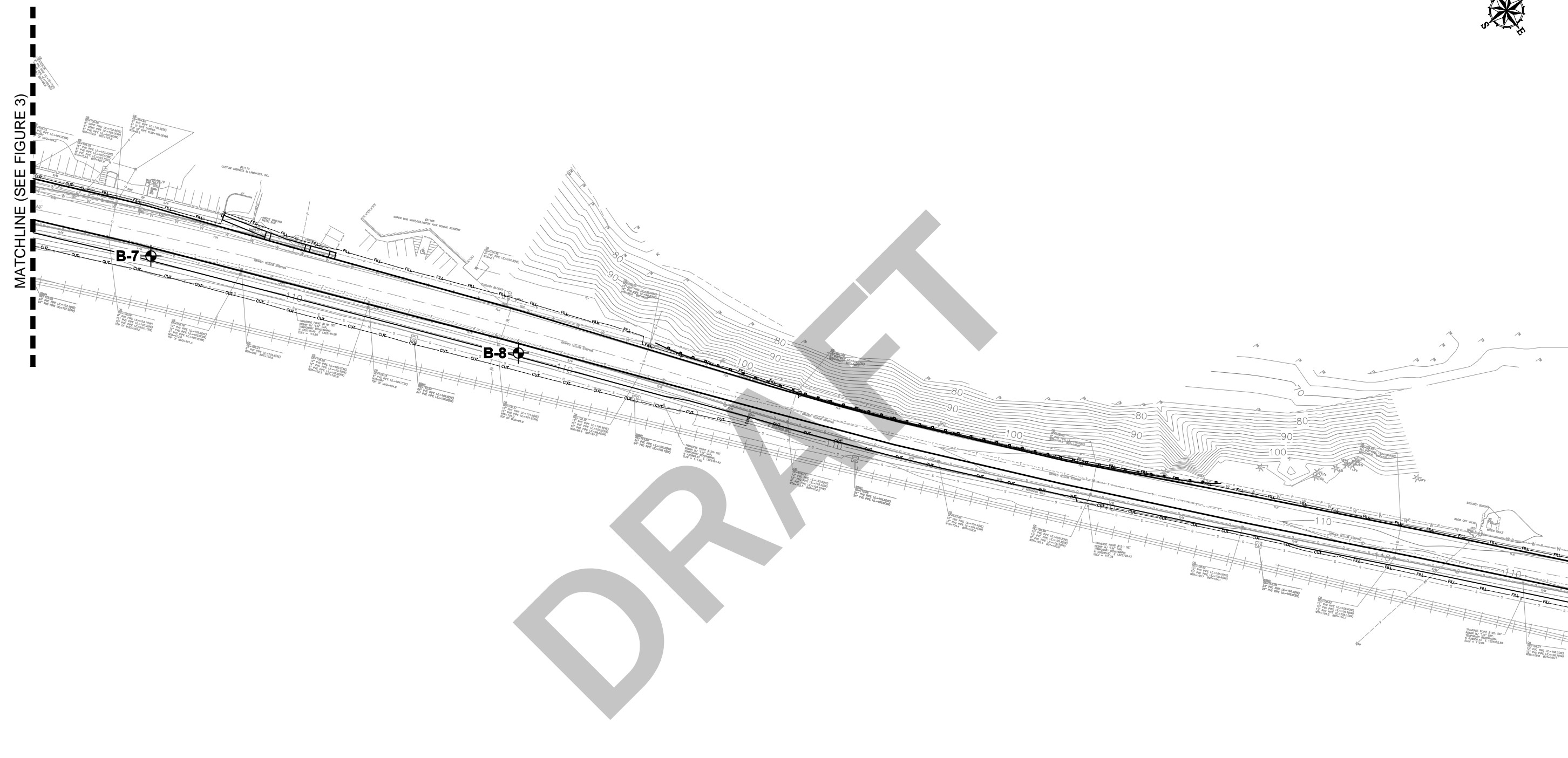
- B-5** Proposed boring location
- MW-4** Proposed monitoring well location

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawings provided by HDR Engineering, Inc. from CAD drawings "00V-BP01-01.dwg, 00V-BP02-01.dwg, and 00C-SP03-20.dwg" dated 7/23/10.

Site Plan	
67th Avenue Phase III Improvement Project Arlington, Washington	
GEOENGINEERS	Figure 3



REDM:DPC:WLT : SCY

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Legend

B-7 Proposed boring location

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawing provided by HDR Engineering, Inc. from CAD drawings "00V-BP01-01.dwg, 00V-BP02-01.dwg, and 00C-SP03-20.dwg" dated 7/23/10.

Site Plan	
67th Avenue Phase III Improvement Project Arlington, Washington	
GEOENGINEERS	Figure 4



APPENDIX A
Field Explorations

DRAFT

APPENDIX A

FIELD EXPLORATIONS

We explored subsurface conditions at the site of the proposed 67th Avenue Phase III Improvement project by completing nine boring (MW-1, B-2, B-3, MW-4, B-5, MW-6, and B7 through B-9). The drilling was performed by Geologic Drill on August 25 and 26, 2010.

The locations of the explorations were estimated in the field by measuring distances from site features through taping/pacing in the field. The approximate exploration locations are shown on the Site Plans, Figures 2, 3, and 4. Boring elevations were estimated based on a CAD drawing provided by HDR Engineering, Inc. dated July 23, 2010.

Borings

Borings were completed using trailer-mounted, continuous-flight, hollow-stem auger drilling equipment. The borings were continuously monitored by a geotechnical engineer from our firm who examined and classified the soils encountered, obtained representative soil samples, observed groundwater conditions and prepared a detailed log of each exploration.

The soils encountered in the borings were generally sampled at 2½- or 5-foot vertical intervals with a 2-inch outside diameter split-barrel standard penetration test (SPT) sampler. The samples were obtained by driving the sampler 18 inches into the soil with a 140-pound hammer with a rope and cathead free-falling 30 inches. The number of blows required for each 6 inches of penetration was recorded. The blow count ("N-value") of the soil was calculated as the number of blows required for the final 12 inches of penetration. This resistance, or N-value, provides a measure of the relative density of granular soils and the relative consistency of cohesive soils. Where very dense soil conditions preclude driving the full 18 inches, the penetration resistance for the partial penetration was entered on the logs. The blow counts are shown on the boring logs at the respective sample depths.

Soils encountered in the borings were visually classified in general accordance with the classification system described in Figure A-1. A key to the boring log symbols is also presented in Figure A-1. The logs of the borings are presented in Figures A-2 through A-10. The boring logs are based on our interpretation of the field and laboratory data and indicate the various types of soils and groundwater conditions encountered. The logs also indicate the depths at which these soils or their characteristics change, although the change may actually be gradual. If the change occurred between samples, it was interpreted. The densities noted on the boring logs are based on the blow count data obtained in the borings and judgment based on the conditions encountered.

Observations of groundwater conditions were made during drilling. The groundwater conditions encountered during drilling are presented on the boring logs. Groundwater conditions observed during drilling represent a short-term condition and may or may not be representative of the long-term groundwater conditions at the site. Groundwater conditions observed during drilling should be considered approximate.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SM	SILTY SANDS, SAND - SILT MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	CC	Cement Concrete
	AC	Asphalt Concrete
	CR	Crushed Rock/ Quarry Spalls
	TS	Topsoil/ Forest Duff/Sod

- Measured groundwater level in exploration, well, or piezometer
- Groundwater observed at time of exploration
- Perched water observed at time of exploration
- Measured free product in well or piezometer
- Graphic Log Contact**
 - Distinct contact between soil strata or geologic units
 - Approximate location of soil strata change within a geologic soil unit
- Material Description Contact**
 - Distinct contact between soil strata or geologic units
 - Approximate location of soil strata change within a geologic soil unit

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

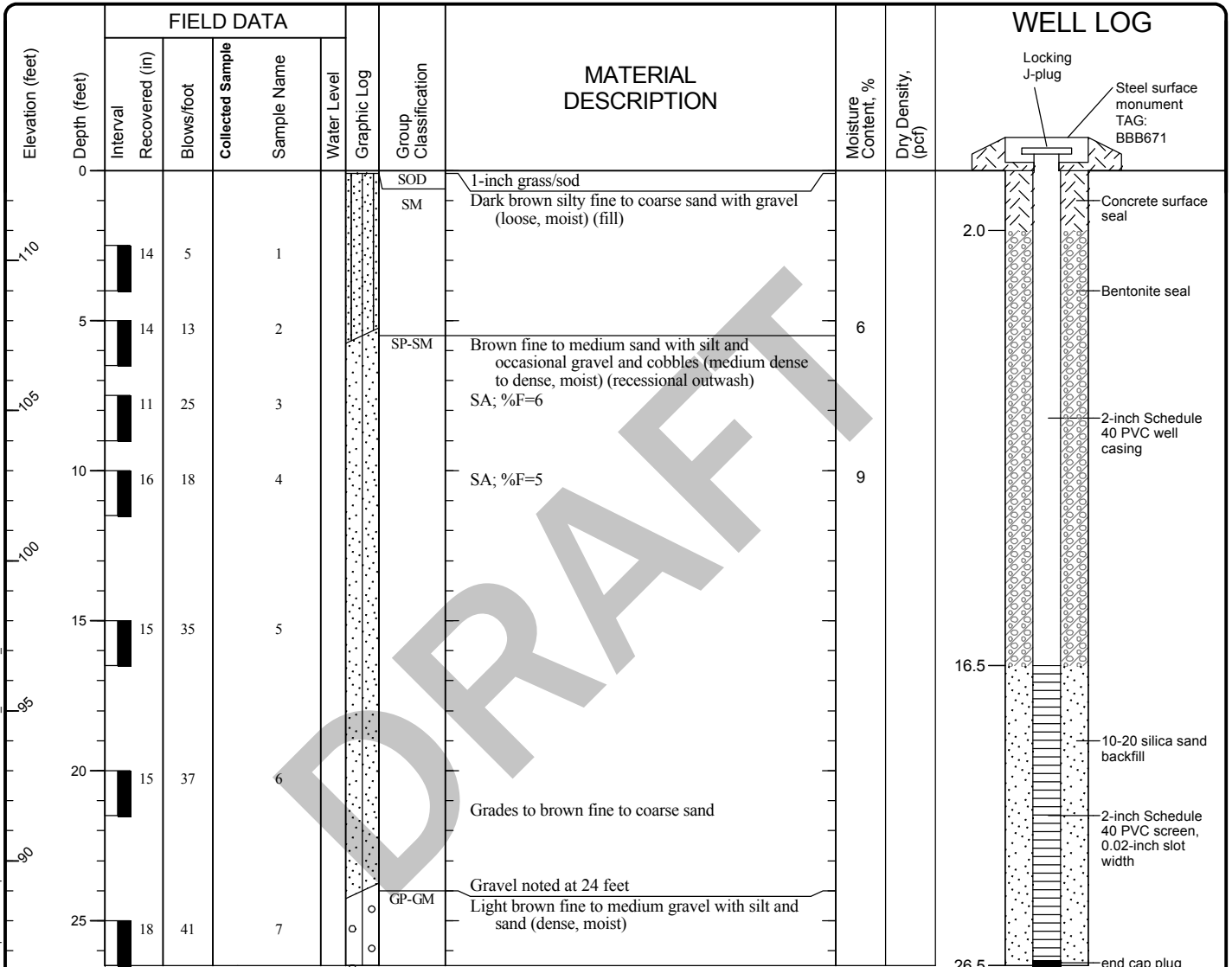
Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS

Start Drilled	8/26/2010	End	8/26/2010	Total Depth (ft)	26.5	Logged By	WBH	Checked By	DPC	Driller	Geologic Drill	Drilling Method	Hollow-stem Auger/SPT
Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop			Drilling Equipment		Deep Rock XL		A 2 (in) well was installed on 8/26/2010 to a depth of 26.5 (ft).					
Surface Elevation (ft)		113.0		Top of Casing Elevation (ft)				Groundwater		Date Measured		Depth to Water (ft) / Elevation (ft)	
Vertical Datum		NAVD88		Horizontal Datum		N/A							
Latitude				Longitude									
Notes: Auger Data: 4¼ inches I.D.; 8 inches O.D.													



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-1



Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\000\GINT\5430006000.GPJ DBTTemplate\Lib\template:GEOENGINEERS8.GDT\GEB_GEOTECH_WELL

Start Drilled 8/25/2010	End 8/25/2010	Total Depth (ft) 16.5	Logged By Checked By WBH DPC	Driller Geologic Drill	Drilling Method Hollow-stem Auger/SPT
Surface Elevation (ft) Vertical Datum 115.0 NAVD88	Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Deep Rock XL	
Latitude Longitude	System Datum	N/A		Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Notes: Auger Data: 3/4 inches I.D.; 7 inches O.D.					

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, (pcf)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							SOD	1-inch sod				
							SM	Light brown silty fine to medium sand with gravel and occasional cobbles (medium dense, moist) (fill)				
5	8	10		1				Gravel content increases				
	9	15		2				Gravel content increases				
	10	32		3			GW-GM	Brown gravel with sand, silt, and occasional cobbles (dense, moist)	4			SA; %F=6
10	11	17		4			SP-SM	Brown fine to coarse sand with silt, gravel and occasional cobbles (medium dense, moist) (recessional outwash)				
15	15	20		5			SP-SM	Light brown fine to medium sand with silt and occasional gravel (medium dense, moist)				

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-2



Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-3
 Sheet 1 of 1

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\00\GINT\5430006000.GPJ DBTTemplate\Lib\template\GEOENGINEERS8.GDT\GEIB_GEOTECH_STANDARD

Drilled	Start 8/25/2010	End 8/25/2010	Total Depth (ft)	24	Logged By Checked By	WBH DPC	Driller	Geologic Drill	Drilling Method	Hollow-stem Auger/SPT/Dames & Moore	
Surface Elevation (ft) Vertical Datum	114.0 NAVD88			Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop			Drilling Equipment	Deep Rock XL		
Latitude Longitude				System Datum	N/A			Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)	
Notes: Auger Data: 3/4 inches I.D.; 7 inches O.D.											

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, (pcf)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0							SOD SM	1-inch sod Light brown silty fine to medium sand with gravel (medium dense, moist) (fill)		
5	12	23	1				SP-SM	Brown fine to coarse sand with silt and gravel and occasional cobbles (dense, moist) (recessional outwash)	3	SA; %F=9 Rock in shoe
10	12	48	2				SP-SM	Brown fine to coarse sand with silt and gravel and occasional cobbles (dense to very dense, moist) (recessional outwash)		Bouncing on gravel
15	7	42	3				SP-SM	Brown fine to coarse sand with silt and gravel and occasional cobbles (dense to very dense, moist) (recessional outwash)		Bouncing on gravel
20	9	66	4				SM	Grades to less gravel Brown silty fine to medium sand with gravel (medium dense, moist)		
25	0	49	5				SP-SM	Brown fine to medium sand with silt (dense, moist)	7	SA; %F=15 Bouncing on gravel; used Dames and Moore sampler at 20 feet
30	18	30	7							

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-3

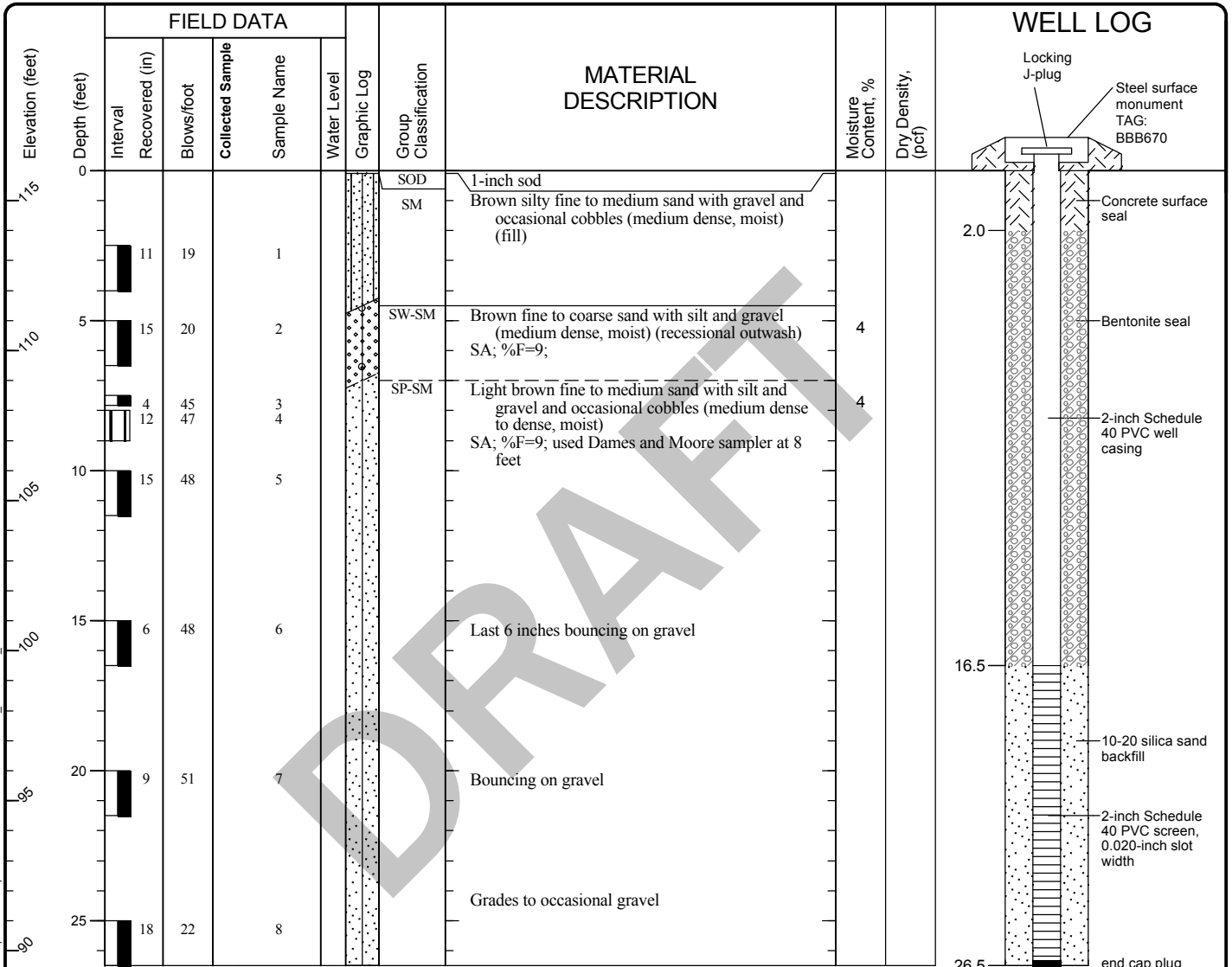


Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-4
 Sheet 1 of 1

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\00\GINT\5430006000.GPJ DBTTemplate\Lib\template\GEOENGINEERS8.GDT\GEIB_GEOTECH_STANDARD

Start Drilled	8/25/2010	End	8/25/2010	Total Depth (ft)	26.5	Logged By	WBH	Checked By	DPC	Driller	Geologic Drill	Drilling Method	Hollow-stem Auger/SPT/Dames & Moore
Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop			Drilling Equipment		Deep Rock XL		A 2 (in) well was installed on 8/26/2010 to a depth of 26.5 (ft).					
Surface Elevation (ft)		116.0		Top of Casing Elevation (ft)				Groundwater		Date Measured		Depth to Water (ft) Elevation (ft)	
Vertical Datum		NAVD88		Horizontal Datum		N/A							
Latitude				Longitude									
Notes: Auger Data: 4¼ inches I.D.; 8 inches O.D.													



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-4



Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-5
 Sheet 1 of 1

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\000\GINT\5430006000.GPJ DBTTemplate:Lib\template:GEOENGINEERS8.GDT\GEIB_GEOTECH_WELL

Start Drilled	8/25/2010	End	8/25/2010	Total Depth (ft)	11.5	Logged By	WBH	Checked By	DPC	Driller	Geologic Drill	Hollow-stem Auger/SPT/Dames & Moore
Surface Elevation (ft) Vertical Datum	103.0 NAVD88			Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop			Drilling Equipment	Deep Rock XL			
Latitude				System Datum	N/A			Groundwater				
Longitude								Date Measured	Depth to Water (ft)	Elevation (ft)		
Notes: Auger Data: 3/4 inches I.D.; 7 inches O.D.												

Elevation (feet)	FIELD DATA							MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, (pcf)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log				
0							SOD	1-inch sod			
100		0	8		1		SP-SM	Light brown silty fine to medium sand with gravel and occasional cobbles (loose to medium dense, moist) (fill)	5		SA; %F=11
5		11	21		2						
50		18	48		3		SM	Brown silty fine to medium sand with gravel and occasional cobbles (dense, moist) (recessional outwash)	5		Bouncing on gravel SA; %F=13
10		4	50		4						
		9	40		5						Gravel in shoe Used Dames and Moore sampler at 11 feet

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Note: See Figure A-1 for explanation of symbols.

Log of Boring B-5

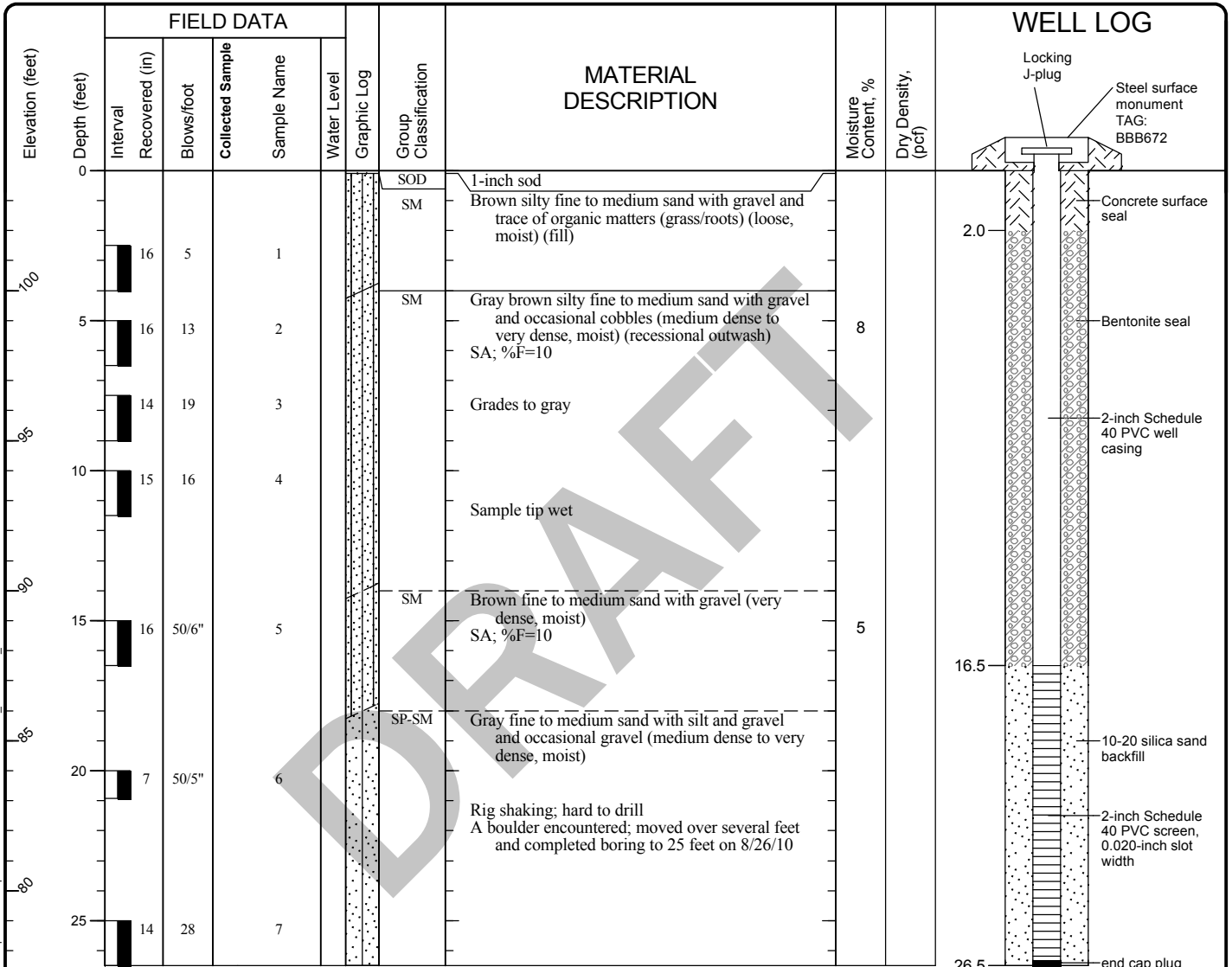


Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-6
 Sheet 1 of 1

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\000\GINT\5430006000.GPJ DBTTemplate\Lib\template:GEOENGINEERS8.GDT\GEIB_GEOTECH_STANDARD

Start Drilled	8/25/2010	End	8/25/2010	Total Depth (ft)	26.5	Logged By	WBH	Checked By	DPC	Driller	Geologic Drill	Drilling Method	Hollow-stem Auger/SPT
Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop			Drilling Equipment		Deep Rock XL		A 2 (in) well was installed on 8/26/2010 to a depth of 26.5 (ft).					
Surface Elevation (ft)		104.0		Top of Casing Elevation (ft)				Groundwater Date Measured		Depth to Water (ft)		Elevation (ft)	
Vertical Datum		NAVD88		Horizontal Datum		N/A							
Latitude				Longitude									
Notes: Auger Data: 4¼ inches I.D.; 8 inches O.D.													



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-6



Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-7
 Sheet 1 of 1

Ref: 09/16/10 Path: W:\REDMOND\PROJECTS\5430006\00\GINT\5430006000.GPJ DBTTemplate\Lib\template\GEOENGINEERS8.GDT\GEIB_GEOTECH_WELL

Start Drilled 8/26/2010	End 8/26/2010	Total Depth (ft) 21.5	Logged By Checked By WBH DPC	Driller Geologic Drill	Drilling Method Hollow-stem Auger/SPT
Surface Elevation (ft) Vertical Datum 108.0 NAVD88	Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Deep Rock XL	
Latitude Longitude	System Datum	N/A		Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Notes: Auger Data: 3/4 inches I.D.; 7 inches O.D.					

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, (pcf)	REMARKS			
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					Graphic Log	Group Classification	
0							SOD			1-inch sod			
105		13	7				SM			Dark brown silty fine to medium sand with gravel and occasional cobbles (loose, moist) (fill)			Trace organic matter
5		15	34				SP-SM			Grayish tan fine to medium sand with silt and occasional gravel (loose to dense, moist) (recessional outwash)			
100		13	7							Grades to fine sand			
10		18	11				SM			Grayish tan silty fine sand with occasional gravel (medium dense, moist)	19		SA; %F=36
95													
15			54				SP-SM			Gray fine to coarse sand with silt and gravel and occasional cobbles (dense to very dense, moist)			
90													
20		12	45										

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-7



Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-8
 Sheet 1 of 1

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\00\GINT\5430006000.GPJ DBTTemplate\Lib\template:GEOENGINEERS8.GDT\GEIB_GEOTECH_STANDARD

Drilled	Start 8/26/2010	End 8/26/2010	Total Depth (ft)	21.5	Logged By Checked By	WBH DPC	Driller	Geologic Drill	Drilling Method	Hollow-stem Auger/SPT
Surface Elevation (ft) Vertical Datum	109.0 NAVD88			Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop			Drilling Equipment	Deep Rock XL	
Latitude Longitude				System Datum	N/A			<u>Groundwater</u> <u>Date Measured</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>
Notes: Auger Data: 3/4 inches I.D.; 7 inches O.D.										

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, (pcf)	REMARKS			
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					Graphic Log	Group Classification	
0							SOD			1-inch grass/sod			
105		7	3		1		SM			Dark brown silty fine to medium sand with gravel and occasional cobbles (very loose, moist) (fill)			Trace organic matter
5		6	3		2					Grades to brown			
100		13	15		3		SM	11		Brown silty fine to coarse sand with gravel and occasional cobbles (medium dense, moist) (recessional outwash)			SA; %F=13
10		13	40		4		SP-SM			Gray fine to coarse sand with silt, gravel, and occasional cobbles (medium dense to dense, moist)			
95		13	48		5								
90		12	28		6								
20													

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-8



Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-9
 Sheet 1 of 1

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\000\GINT\5430006000.GPJ DBTTemplate\Lib\template:GEOENGINEERS8.GDT\GEIB_GEOTECH_STANDARD

Start Drilled 8/25/2010	End 8/25/2010	Total Depth (ft) 16.5	Logged By Checked By WBH DPC	Driller Geologic Drill	Hollow-stem Auger/SPT/Dames & Moore
Surface Elevation (ft) Vertical Datum 111.0 NAVD88	Hammer Data	Rope and Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Deep Rock XL	
Latitude Longitude	System Datum	N/A		Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Notes: Auger Data: 3/4 inches I.D.; 7 inches O.D.					

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Moisture Content, %	Dry Density, (pcf)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
110	0						SOD	1-inch grass/sod		
							SM	Brown silty fine to medium sand with gravel and occasional cobbles (very dense, moist)		
		13	50/5"							Trace organic matter (grass/roots)
	5						GP-GM	Brown fine gravel with sand, silt, and occasional cobbles (very dense, moist) (recessional outwash)	3	SA; %F=6 Rig shaking Bouncing on gravel
105										
		6	53				GW-GM	Brown fine to coarse gravel with sand, silt, and occasional cobbles (dense to very dense, moist)		
		9	93							Bouncing on gravel Rock in shoe; Used Dames and Moore sampler at 8 feet SA; %F=8
	10									
100										
		12	34							
	15									
95										Gravel in shoe Wet at the tip but no standing water
		18	46							

DRAFT

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-9



Project: City of Arlington\67th Avenue Phase III
 Project Location: Arlington, Washington
 Project Number: 5430-006-00

Figure A-10
Sheet 1 of 1

Refmond: Date: 9/16/10 Path: W:\REDMOND\PROJECTS\5430006\00\GINT\5430006000.GPJ DBTTemplate\Lib\template\GEOENGINEERS8.GDT\GEIB_GEOTECH_STANDARD



APPENDIX B
Laboratory Testing

DRAFT

APPENDIX B LABORATORY TESTING

General

Soil samples obtained from the explorations were transported to GeoEngineers' laboratory and examined to confirm or modify field classifications, as well as to evaluate index properties of the soil samples. Representative samples were selected for laboratory testing consisting of the determination of the sieve analyses and California Bearing Ratio. The tests were performed in general accordance with test methods of the American Society for Testing and Materials (ASTM) or other applicable procedures.

The sieve analyses test results are presented in Figures B-1 through B-4. The results of the moisture content and percent passing the U.S. No. 200 sieve determinations are presented at the respective sample depths on the exploration logs in Appendix A.

Sieve Analyses

Sieve analyses were performed on selected samples in general accordance with ASTM D 422 to determine the sample grain size distribution. The wet sieve analysis method was used to determine the percentage of soil greater than the U.S. No. 200 mesh sieve. The results of the sieve analyses were plotted and classified in general accordance with the Unified Soil Classification System (USCS).

CBR Testing

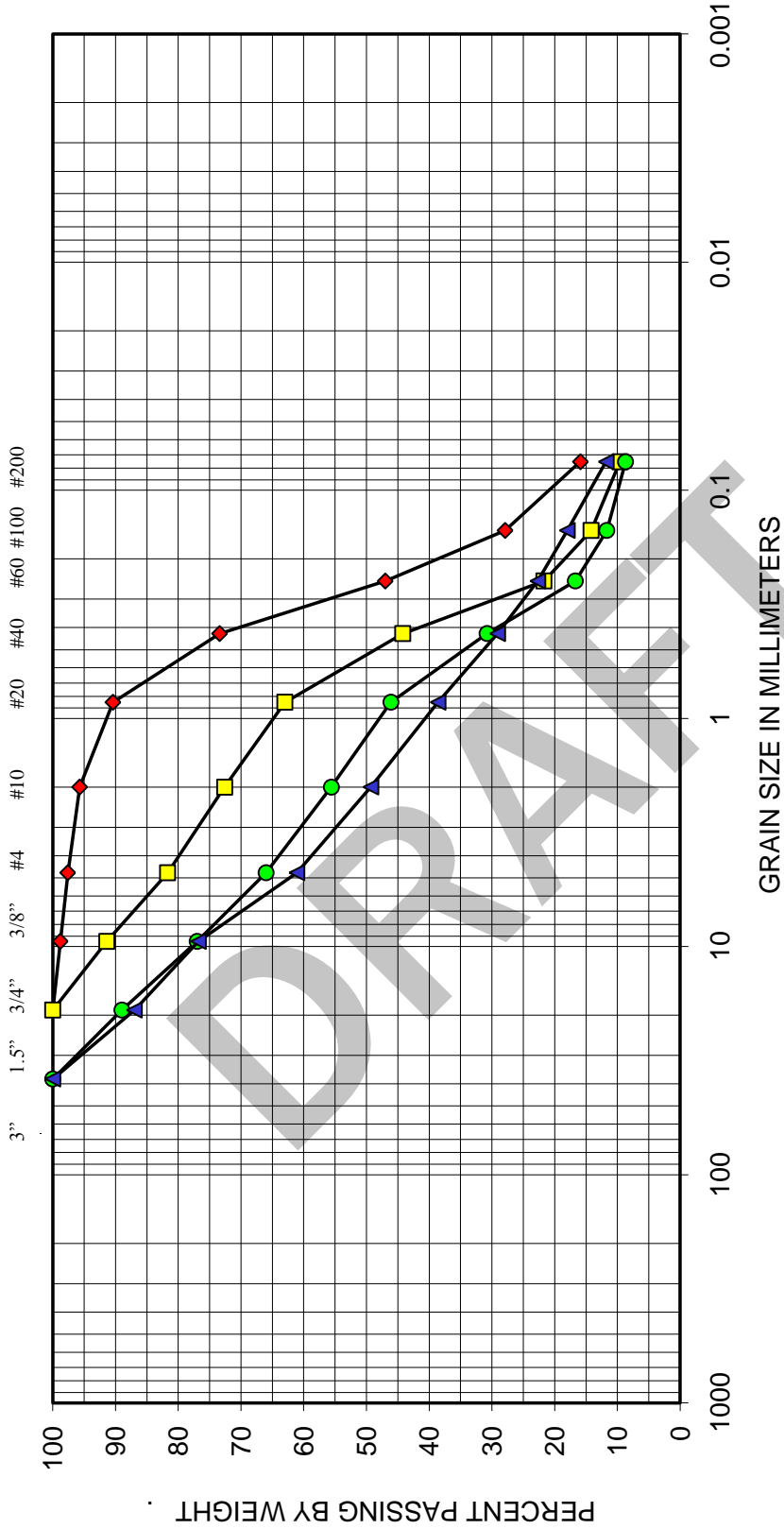
A California Bearing Ratio (CBR) test was performed on a composite soil sample in general accordance with ASTM D 1883. The composite sample consisted of soil taken from ½ to 2 feet below ground surface from explorations MW-1, B-2, B-5 and MW-6. The results of the CBR test are presented in the following table.

Exploration	Sample Depth (feet)	Soil Type	Dry Density (pcf)	Percent Maximum Dry Density	CBR
Composite	½ to 2	SM	124	93	18
			130	98	51
			135	100	83

Note:

pcf = pounds per cubic foot

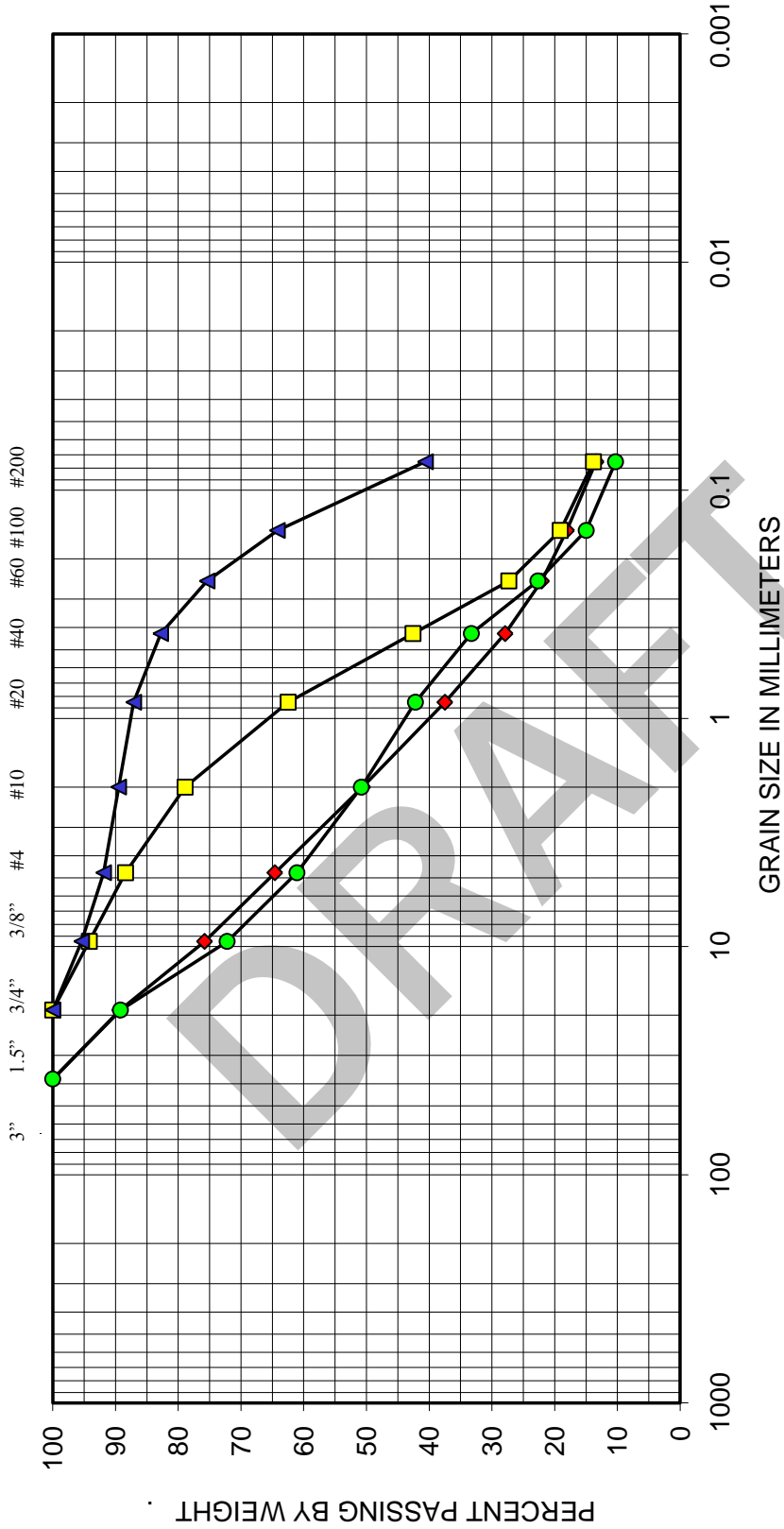
U.S. STANDARD SIEVE SIZE



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

EXPLORATION NUMBER		DEPTH (ft)		SOIL CLASSIFICATION	
◆	B-3	21.5	Brown silty fine to medium sand with gravel(SM)		
■	MW-4	5	Brown fine to coarse sand with silt and gravel (SW-SM)		
●	MW-4	7.5	Light brown fine to medium sand with silt and gravel (SP-SM)		
▲	B-5	5	Light brown fine to medium sand with silt and gravel (SP-SM)		

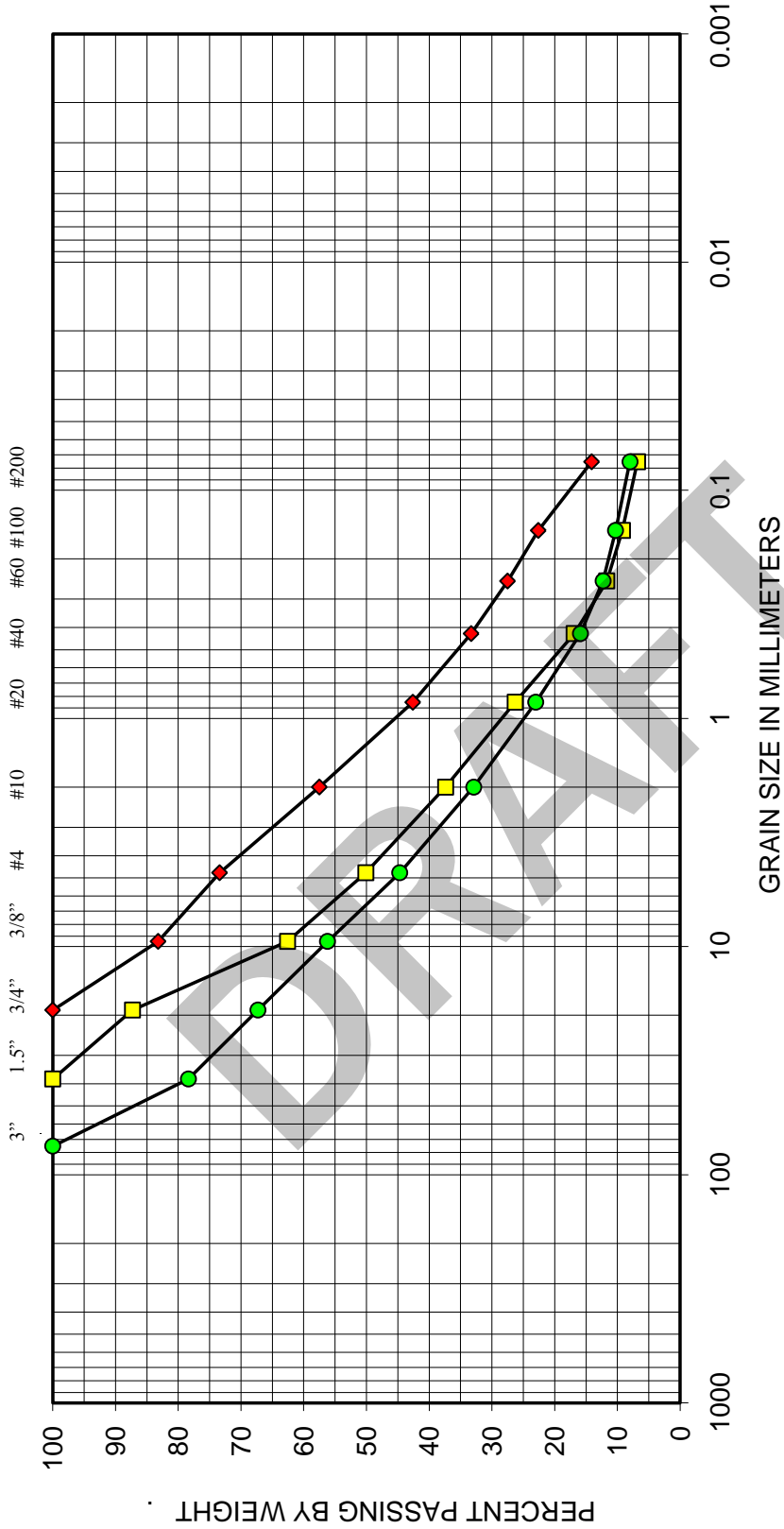
U.S. STANDARD SIEVE SIZE






COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

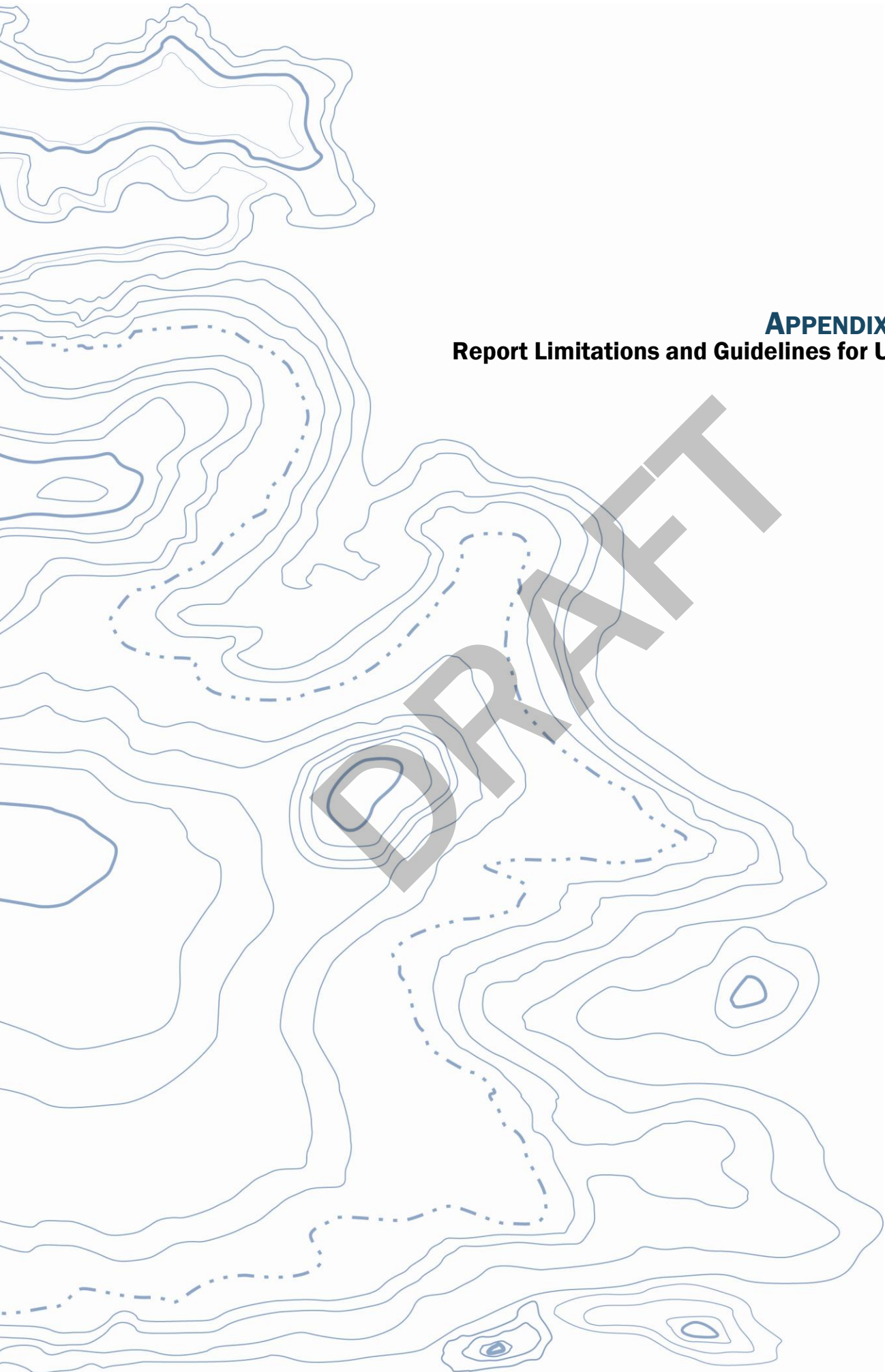
SYMBOL		EXPLORATION NUMBER	DEPTH (ft)	SOIL CLASSIFICATION
◆		B-5	7.5	Brown silty fine to medium sand with gravel (SM)
■		MW-6	5	Gray brown silty fine to medium sand with gravel(SM)
●		MW-6	15	Brown fine to medium sand with silt and gravel (SP-SM)
▲		B-7	10	Grayish tan silty fine sand with occasional gravel(SM)

U.S. STANDARD SIEVE SIZE



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

EXPLORATION NUMBER		DEPTH (ft)	SOIL CLASSIFICATION
  	B-8	7.5	Brown silty fine to medium sand with gravel (SM)
	B-9	5	Brown fine gravel with silt and sand (GP-GM)
	B-9	7.5	Brown fine to coarse gravel with silt and sand (GW-GM)



APPENDIX C
Report Limitations and Guidelines for Use

DRAFT

APPENDIX C REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This attachment provides information to help you manage your risks with respect to the use of this report.

Geotechnical Services Are Performed For Specific Purposes, Persons and Projects

This report has been prepared for the exclusive use of The city of Arlington, HDR Engineering, Inc. and their authorized agents. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, a geotechnical or geologic study conducted for a civil engineer or architect may not fulfill the needs of a construction contractor or even another civil engineer or architect that are involved in the same project. Because each geotechnical or geologic study is unique, each geotechnical engineering or geologic report is unique, prepared solely for the specific client and project site. Our report is prepared for the exclusive use of our Client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted geotechnical practices in this area at the time this report was prepared. This report should not be applied for any purpose or project except the one originally contemplated.

A Geotechnical Engineering Or Geologic Report Is Based On A Unique Set Of Project-Specific Factors

This report has been prepared for the proposed 67th Avenue Phase III Improvement project in Arlington, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you;
- not prepared for your project;
- not prepared for the specific site explored; or
- completed before important project changes were made.

For example, changes that can affect the applicability of this report include those that affect:

- the function of the proposed structure;
- elevation, configuration, location, orientation or weight of the proposed structure;
- composition of the design team; or
- project ownership.

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

Subsurface Conditions Can Change

This geotechnical or geologic report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying a report to determine if it remains applicable.

Most Geotechnical And Geologic Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ, sometimes significantly, from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Geotechnical Engineering Report Recommendations Are Not Final

Do not over-rely on the preliminary construction recommendations included in this report. These recommendations are not final, because they were developed principally from GeoEngineers' professional judgment and opinion. GeoEngineers' recommendations can be finalized only by observing actual subsurface conditions revealed during construction. GeoEngineers cannot assume responsibility or liability for this report's recommendations if we do not perform construction observation.

Sufficient monitoring, testing and consultation by GeoEngineers should be provided during construction to confirm that the conditions encountered are consistent with those indicated by the explorations, to provide recommendations for design changes should the conditions revealed during the work differ from those anticipated, and to evaluate whether or not earthwork activities are completed in accordance with our recommendations. Retaining GeoEngineers for construction observation for this project is the most effective method of managing the risks associated with unanticipated conditions.

A Geotechnical Engineering Or Geologic Report Could Be Subject To Misinterpretation

Misinterpretation of this report by other design team members can result in costly problems. You could lower that risk by having GeoEngineers confer with appropriate members of the design team after submitting the report. Also retain GeoEngineers to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering or geologic report. Reduce that risk by having GeoEngineers participate in pre-bid and preconstruction conferences, and by providing construction observation.

Do Not Redraw The Exploration Logs

Geotechnical engineers and geologists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering or geologic report should never be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, but recognize that separating logs from the report can elevate risk.

Give Contractors A Complete Report And Guidance

Some owners and design professionals believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering or geologic report, but preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with GeoEngineers and/or to conduct additional study to obtain the specific types of information they need or prefer. A pre-bid conference can also be valuable. Be sure contractors have sufficient time to perform additional study. Only then might an owner be in a position to give contractors the best information available, while requiring them to at least share the financial responsibilities stemming from unanticipated conditions. Further, a contingency for unanticipated conditions should be included in your project budget and schedule.

Contractors Are Responsible For Site Safety On Their Own Construction Projects

Our geotechnical recommendations are not intended to direct the contractor's procedures, methods, schedule or management of the work site. The contractor is solely responsible for job site safety and for managing construction operations to minimize risks to on-site personnel and to adjacent properties.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering or geology) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or site.

Geotechnical, Geologic And Environmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Biological Pollutants

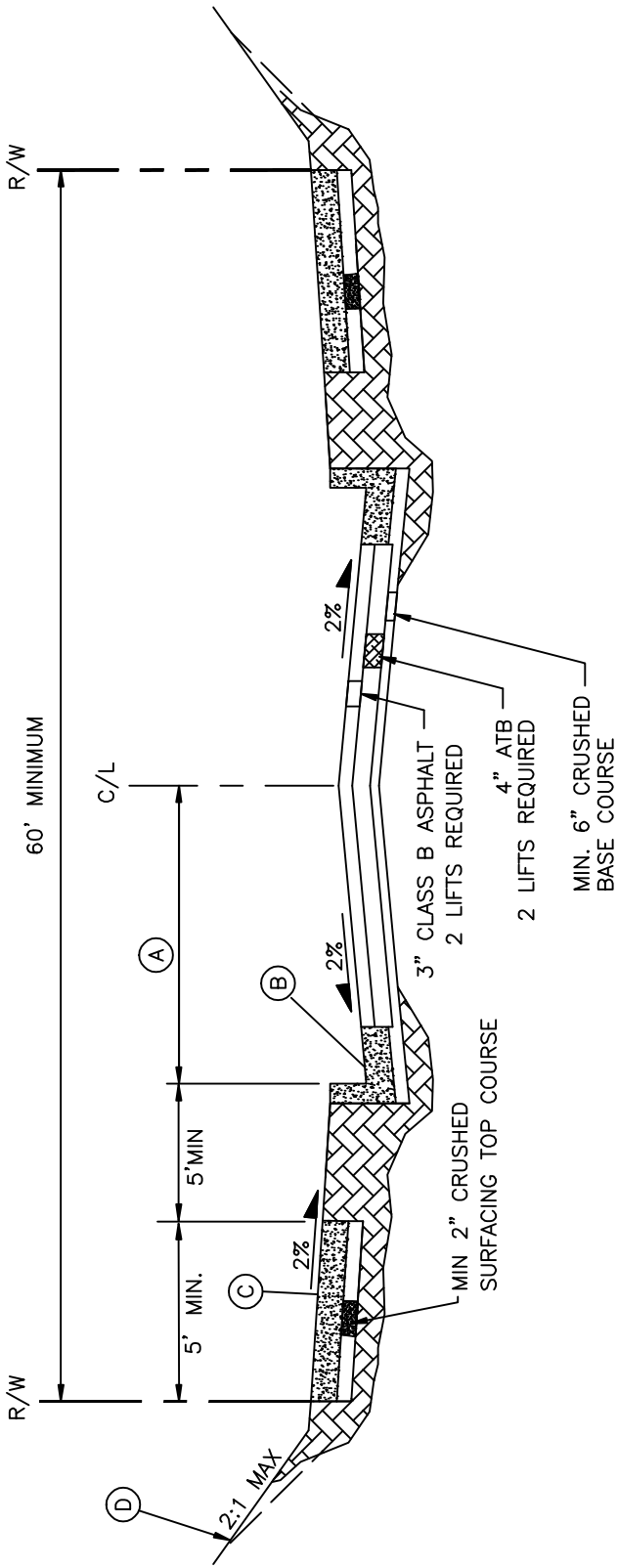
GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If Client desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.

DRAFT

APPENDIX C

**EXCERPT OF CITY OF ARLINGTON DESIGN
AND CONSTRUCTION STANDARDS AND
SPECIFICATIONS, WSDOT STANDARD PLANS,
and SNOHOMISH COUNTY STANDARD PLANS**



STANDARD ROADWAY SECTION:

- (A) PAVEMENT WIDTH
24' MINIMUM (VARIES)
- (B) CEMENT CONCRETE SIDEWALK
SEE STD DETAIL R-170
- (C) CONCRETE CURB AND GUTTER TYPE 1
SEE STD DETAIL R-180
- (D) CONSTRUCTION EASEMENT REQUIRED

NOTES:

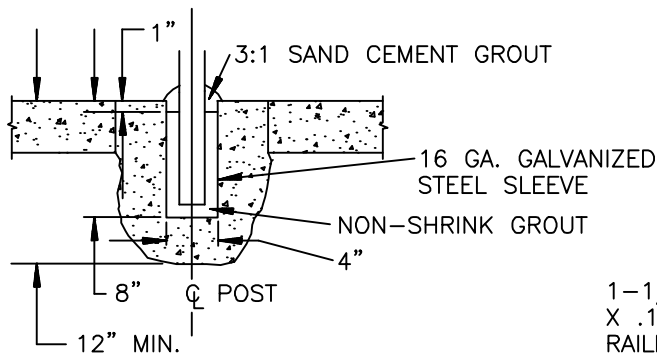
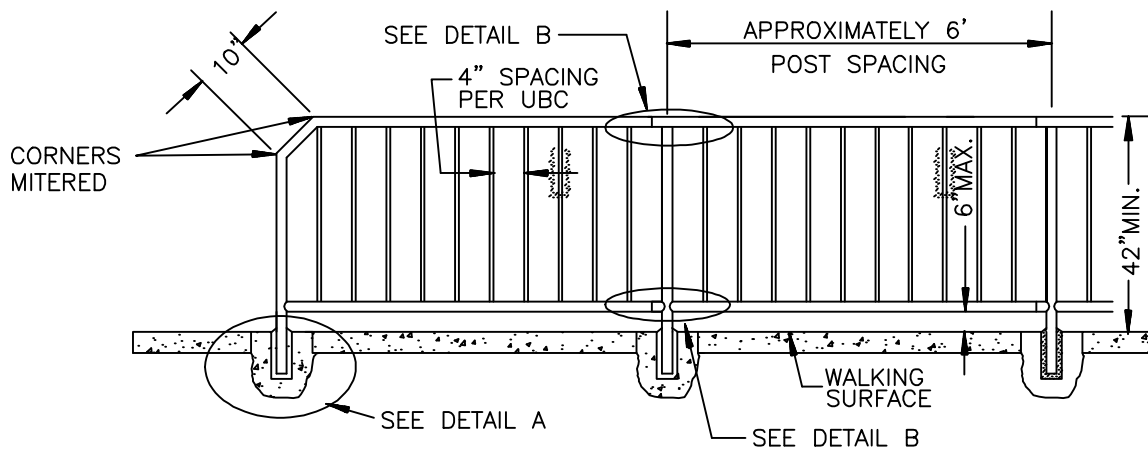
1. IN WIDENING AREAS, THE EXISTING PAVEMENT EDGE SHALL BE SAW-CUT TO LEAVE A JOINT POINT. ANY TRAFFIC STRIPING REMOVED OR DAMAGED DURING WIDENING WORK SHALL BE REPLACED IN KIND OR AS DIRECTED BY THE CITY ENGINEER.
2. COMPACTION TESTS ON SUBGRADE AND SURFACING SHALL BE REQUIRED. THE NUMBER OF TESTS SHALL BE AT THE DISCRETION OF THE CITY INSPECTOR. ALL TESTING SHALL BE THROUGH A LICENSED TESTING LABORATORY. THE MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY ON BOTH SUBGRADE AND SURFACING.
3. ADJUSTMENT OF CATCH BASIN LIDS OR GRATES, MONUMENTS CASES, VALVE BOXES, MANHOLE COVERS, ETC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER AS REQUIRED.
4. ROADWAY SECTION MAY BE ADJUSTED WITH THE APPROVAL OF THE CITY ENGINEER UPON SUBMISSION OF SUBSTANTIATING ENGINEERING DATA (CBR, ETC) TO SUPPORT THE ADJUSTMENT. FOR DESIGN PURPOSES, THE MINIMUM THICKNESS OF CLASS B ASPHALT SHALL BE 3" COMPACTED DEPTH. COMPACTION SHALL BE AN AVERAGE OF 91% OF DRY DENSITY, WSDOT TEST METHOD 705.



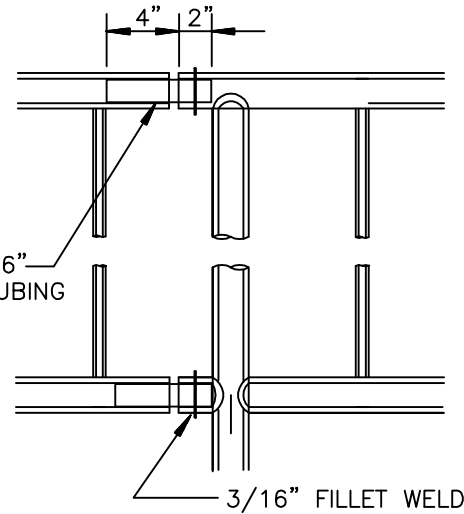
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS
 TYPICAL ROADWAY SECTION
 ARTERIAL & INDUSTRIAL ACCESS

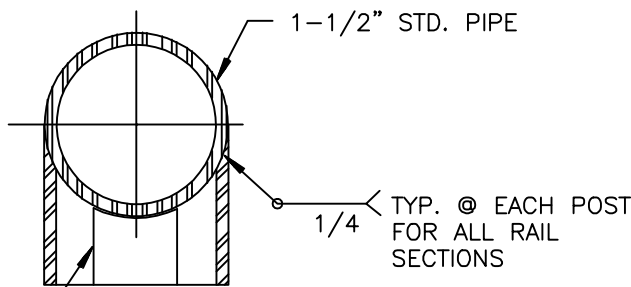
STANDARD DETAIL
 NUMBER
R-020



DETAIL A



DETAIL B



3/4" SCH 40 (STD. PIPE)

PICKETS INSERTED IN HOLE AND TACK WELDED OPPOSITE TRAFFIC.

NOTES:

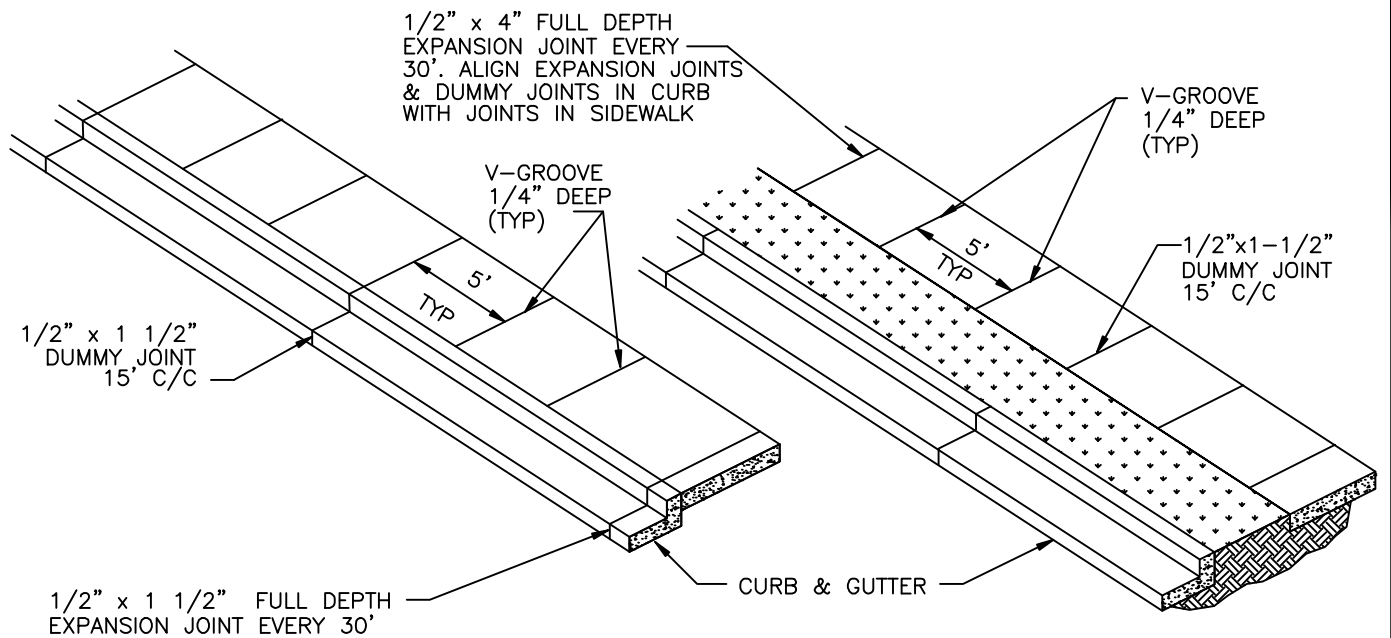
MATERIAL FOR PEDESTRIAN HANDRAIL SHALL BE STEEL (ASTM A120) OR ALUMINUM (ASTM B241 OR B429 ALLOY 6061-T6).



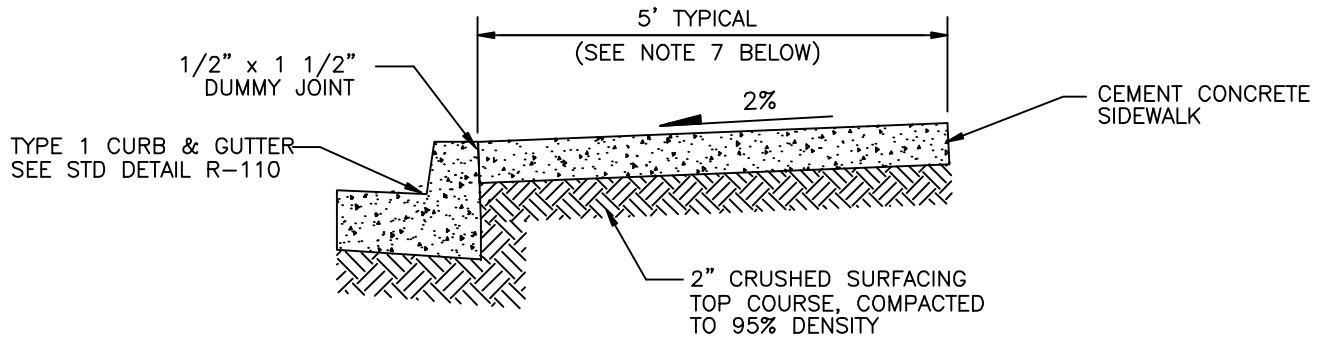
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS
PEDESTRIAN HANDRAIL DETAILS

STANDARD DETAIL NUMBER
R-160



PLAN VIEWS



TYPICAL SECTION

NOTES:

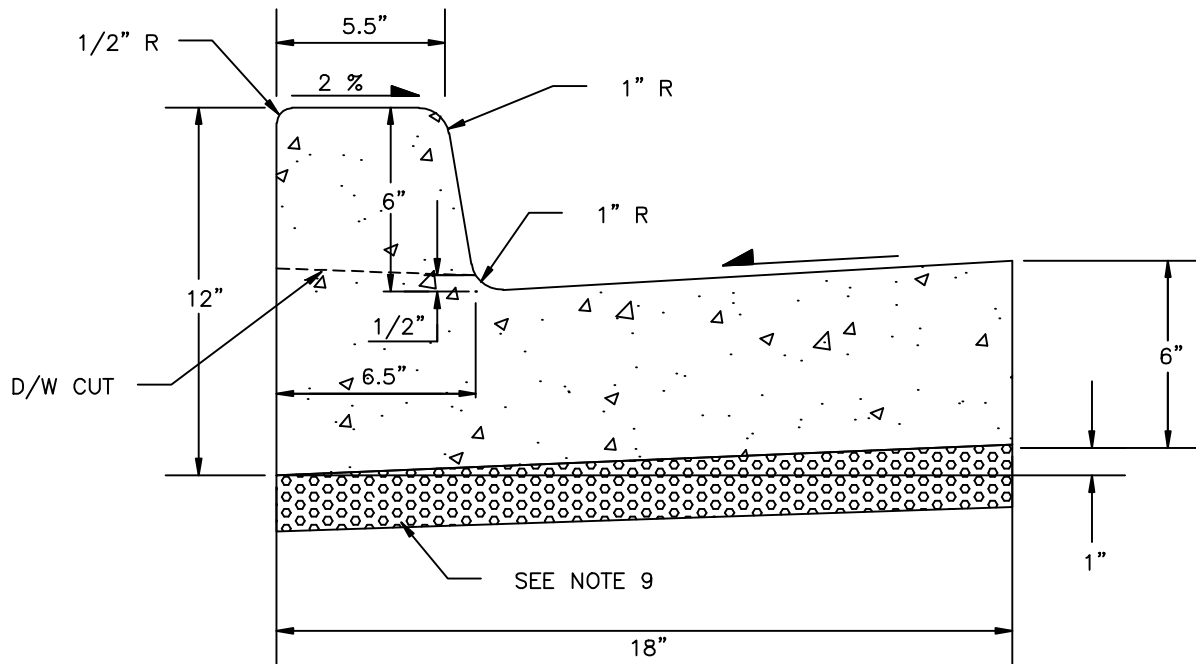
1. SIDEWALKS SHALL BE A MINIMUM OF 4" THICK, AND SHALL BE CLASS 3000 CEMENT CONCRETE, WITH AIR ENTRAINMENT (MIN 4.5% - MAX 6.5%).
2. FULL EXPANSION JOINTS SHALL GENERALLY BE PLACED TO MATCH THOSE PLACED IN ADJACENT CURB & GUTTER, WITH MAXIMUM SPACING OF 30 FEET, FINAL SPACING DETERMINATION SHALL BE DECIDED BY THE INSPECTOR IN THE FIELD.
3. SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY.
4. SIDEWALK SHALL BE AT LEAST 6" THICK IN DRIVEWAYS.
5. THE FINISHED SIDEWALK SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND COVERED BY WATERPROOF PAPER OR PLASTIC SHEETING IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE FOR A MINIMUM OF 72 HOURS.
6. ALL JOINTS SHALL BE CLEANED AND EDGED WITH AN EDGER HAVING A 1/4" RADIUS.
7. SIDEWALKS ARE TYPICALLY 5' WIDE, WIDER SIDEWALK MAY BE REQUIRED BY THE CITY.



APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS
CEMENT CONCRETE SIDEWALK

STANDARD DETAIL NUMBER
R-170



TYPICAL SECTION

NOTES:

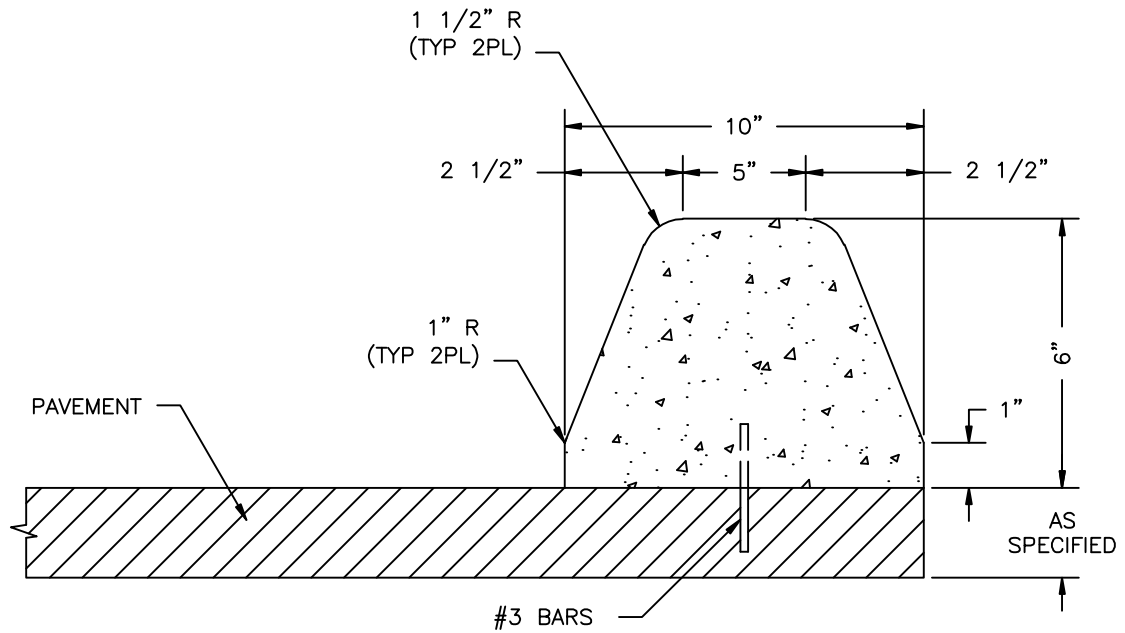
1. FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED.
2. DUMMY JOINTS SHALL BE PLACED 15 FEET ON CENTERS. DUMMY JOINTS SHALL BE 1/2" x 1-1/2".
3. THRU JOINTS SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS, ALLEY AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 30 FT. PRE-MOLDED JOINT FILLER SHALL BE 1/2" WIDE AND CONFORM TO AASHTO DESIGN M213.
4. ALL JOINTS SHALL BE CLEAN AND EDGED.
5. CONCRETE SHALL BE CEMENT CONCRETE, CLASS 3000.
6. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
7. FINISH SHALL BE LIGHT BROOM FINISH.
8. THE FINISHED CURB SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND AND COVERED BY WATERPROOF PAPER OR PLASTIC MEMBRANE IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE A MINIMUM OF 72 HOURS.
9. ALL CURB AND GUTTER SHALL BE PLACED ON A MIN OF 2" OF CRUSHED SURFACING TOP COURSE.
10. DUMMY JOINT 1/2" x 1 1/2" BETWEEN TYPE 1 CURB AND GUTTER AND THE SIDEWALK.



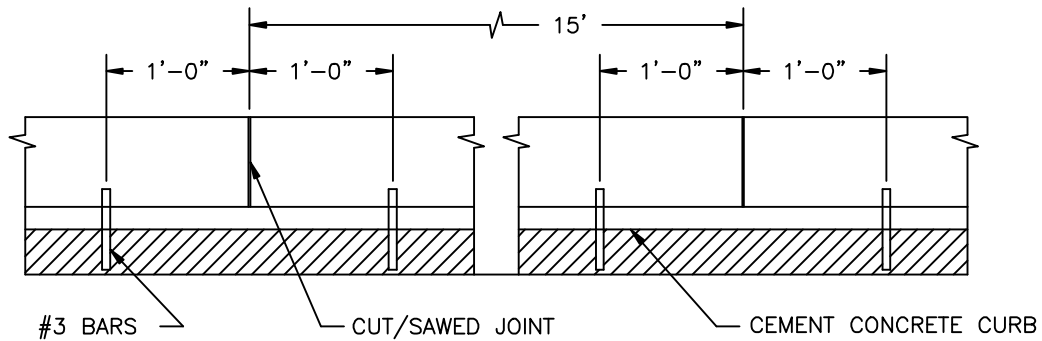
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS
CEMENT CONCRETE CURB AND
GUTTER TYPE 1

STANDARD DETAIL
NUMBER
R-180



EXTRUDED CEMENT CONCRETE CURB



SPACING OF ANCHOR BARS

NOTES:

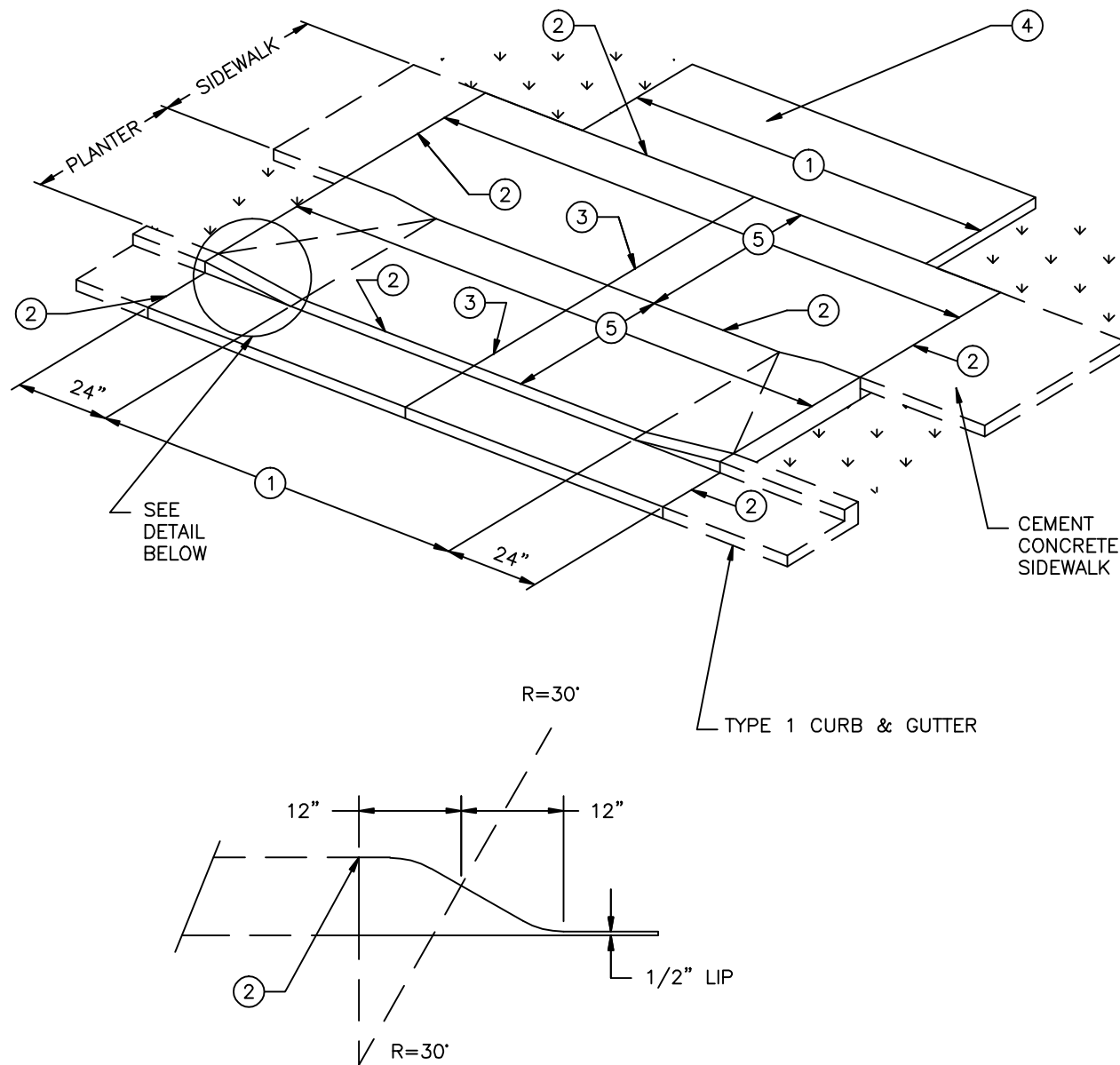
1. DUMMY JOINTS SHALL BE PLACED NOT TO EXCEED 15' ON CENTER. THRU JOINTS SHALL BE PLACED ONLY AT POINTS OF TANGENCY ON STREET ALLEY AND DRIVEWAY RETURNS AND WHERE THRU JOINTS OCCUR IN THE PAVEMENT SLAB.
2. CONCRETE SHALL BE CLASS 3000 OR COMMERCIAL WITH AIR-ENTRAINMENT.
3. AT THE CONTRACTOR'S OPTION CONCRETE CURBS MAY BE ANCHORED TO THE SIDE OF EVERY JOINT, OR BY USING AN ADHESIVE. THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9-20 OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR TYPE II EPOXY RESIN.



APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS
EXTRUDED CONCRETE CURB

STANDARD DETAIL NUMBER
R-200



CURB TRANSITION DETAIL

NOTES:

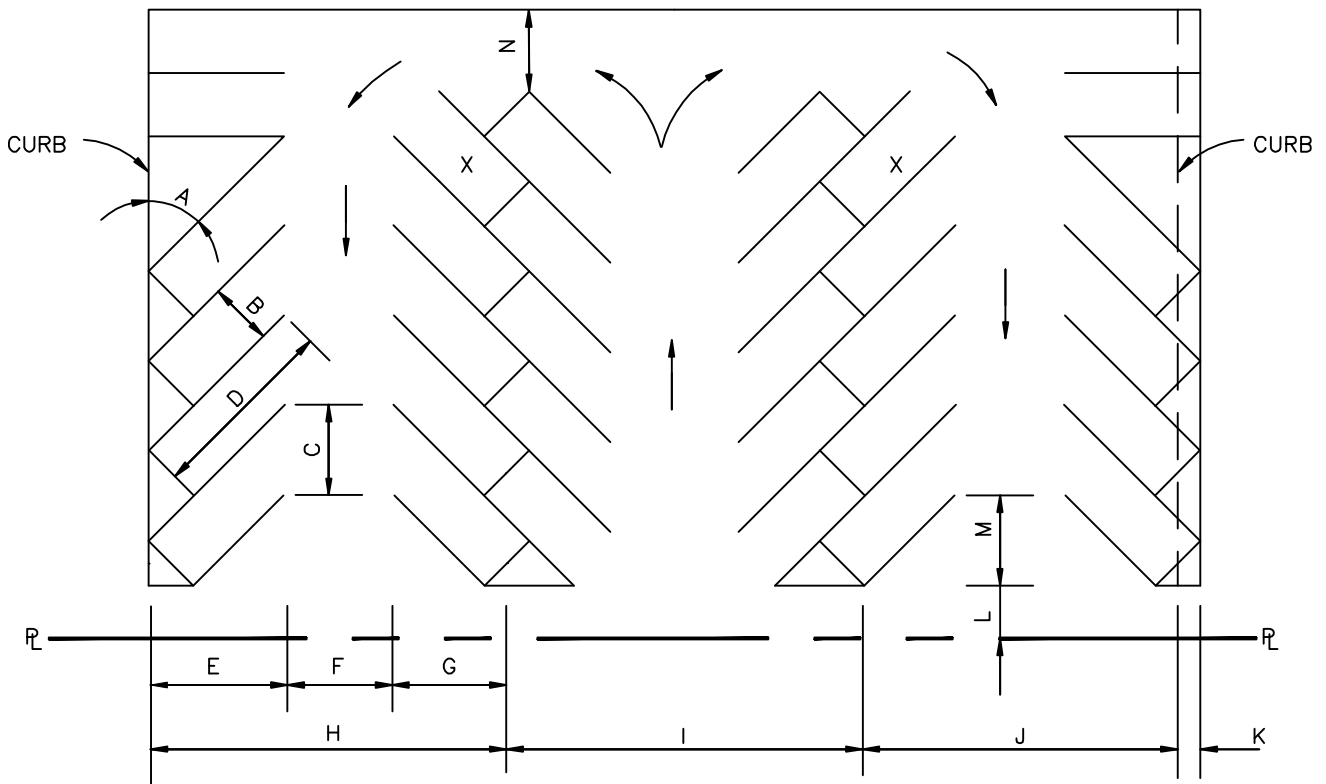
- ① WIDTH OF DRIVEWAY AT PROPERTY LINE.
- ② 1/2" WIDE FULL DEPTH EXPANSION JOINT.
- ③ FULL DEPTH EXPANSION JOINT IF ① IS 15' OR GREATER
- ④ DRIVEWAY TO BE SURFACED WITH ASPHALT OR CONCRETE.
- ⑤ DRIVEWAY CEMENT CONCRETE SHALL BE A MIN OF 6" THICK IN RESIDENTIAL AREAS, 8" THICK IN COMMERCIAL AREAS, AND IS TO BE PLACED ON A MINIMUM OF 2" CRUSHED SURFACING TOP COURSE COMPACTED TO 95% MAXIMUM DENSITY.



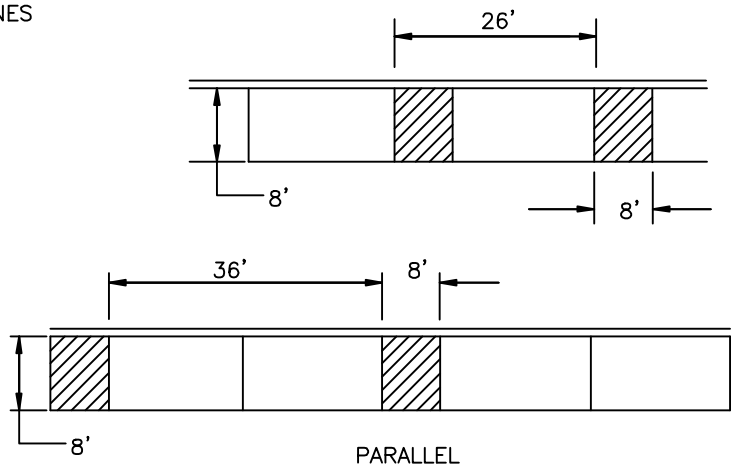
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS
CEMENT CONCRETE DRIVEWAY APPROACH TYPE 1

STANDARD DETAIL NUMBER
R-220



- A = PARKING ANGLE
- B = STALL WIDTH, PERPENDICULAR TO STALL LINES
- C = STALL WIDTH, PARALLEL TO AISLE
- D = LENGTH OF STALL LINE
- E = STALL DEPTH, PERPENDICULAR TO AISLE
- F = AISLE WIDTH, BETWEEN STALL LINES
- G = STALL DEPTH, INTERLOCKING
- H = MODULE, WALL TO INTERLOCK
- I = MODULE, INTERLOCK TO INTERLOCK
- J = MODULE, INTERLOCK TO CURB
- K = BUMPER OVERHANG
- L = OFFSET
- M = SETBACK
- N = CROSS AISLE, ONE WAY
- N = CROSS AISLE, TWO WAY
- X = STALL NOT ACCESSIBLE IN CERTAIN LAYOUTS.



APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS

TYPICAL PARKING LAYOUT

STANDARD DETAIL NUMBER

R-240

PARKING STALL GEOMETRY DETAIL

SEE STD PLAN NO. R-210 FOR TYPICAL PARKING LAYOUT.

PARKING ANGLE (DEGREES)	STALL WIDTH PERPENDICULAR TO STALL LINES	STALL WIDTH PARALLEL TO AISLE	LENGTH OF STALL LINE	STALL DEPTH PERPENDICULAR TO AISLE	AISLE WIDTH BETWEEN STALL LINES (SEE NOTE 1)	STALL DEPTH INTERLOCKING	MODULE, WALL TO INTERLOCK	MODULE, INTERLOCK TO INTERLOCK	MODULE, INTERLOCK TO CURB	BUMPER, OVERHANG (TYPICAL)	OFFSET	SETBACK	CROSS AISLE (ONE WAY)	CROSS AISLE (TWO WAY)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	N
45°	9.0	12.7	27.5	19.5	12	16.5	48.0	45	46.0	2.0	6.4	13.1	14	24
	9.5	13.4	27.5	19.5	11	16.5	47.0	44	45.0	2.0	6.4	13.1	14	24
	C	8.0	11.3	22.5	16.0	11				2.0			14	24
	H	13.0	18.3	27.5	19.5	11				2.0			14	24
	V	16.0	22.5	32.0	22.6	12				2.0			14	24
60°	9.0	10.4	23.7	20.5	16	18.5	55.0	53	53.7	2.3	2.6	9.3	14	24
	9.5	11.0	23.7	20.5	15	18.5	54.0	52	51.7	2.3	2.6	9.3	14	24
	C	8.0	9.3	19.5	16.7	14				2.3			14	24
	H	13.0	15.0	23.7	20.5	15				2.3			14	24
	V	16.0	18.5	26.9	23.3	16				2.3			14	24
75°	9.0	9.3	20.9	20.0	23	19.0	62.0	61	59.5	2.5	.6	4.8	14	24
	9.5	9.8	20.9	20.0	22	19.0	61.0	60	58.5	2.5	.6	4.8	14	24
	C	8.0	8.3	17.0	16.3	18				2.5			14	24
	H	13.0	13.5	20.9	20.0	22				2.5			14	24
	V	16.0	16.6	23.2	22.4	24				2.5			14	24
90°	9.0	9.0	19.0	19.0	26	19.0	66	66	66	2.5	0	0	14	24
	9.5	9.5	19.0	19.0	25	19.0	63	63	63	2.5	0	0	14	24
	C	8.0	8.0	15.0	15.0	22				2.5		0	14	24
	H	13.0	13.0	18.5	18.5	25				2.5		11	14	24
	V	16.0	16.0	20.0	20.0	24				2.5			14	24

NOTES:

1. AISLE WIDTH MAY BE REQUIRED TO BE WIDER IF MULTIPLE UTILITY LINES ARE LOCATED WITHIN THE AISLE CORRIDOR.
2. C = COMPACT SPACE. EACH SPACE SHALL BE IDENTIFIED BY PAINTING "COMPACT" ON PAVEMENT.
3. H = HANDICAP SPACE, SEE WASHINGTON STATE REGULATIONS FOR BARRIER FREE FACILITIES.
4. V = HANDICAP VAN ACCESSIBLE SPACE, SEE WASHINGTON STATE REGULATIONS FOR BARRIER FREE FACILITIES.



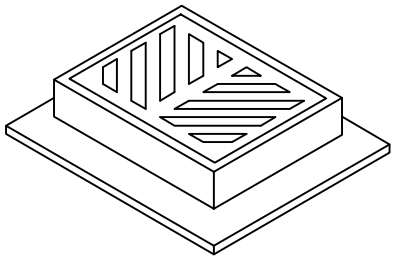
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STD SPEC	

**DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS**

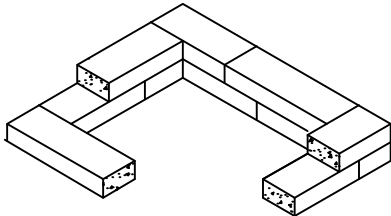
PARKING LOT DETAIL

STANDARD DETAIL
NUMBER

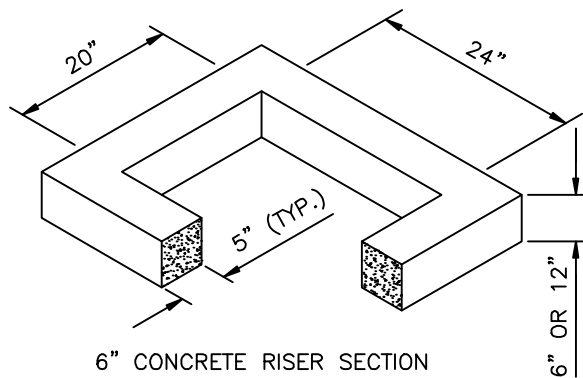
R-250



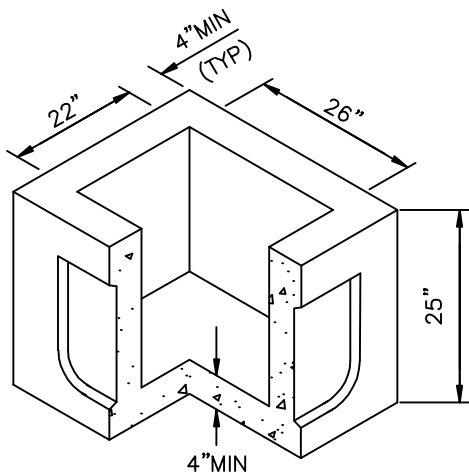
FRAME AND GRATE, SEE APPLICABLE STANDARD DETAILS



2"x4"x8" SOLID BRICK USED FOR FINAL ADJUSTMENT TO GRADE, 6" HIGH MAX.



6" CONCRETE RISER SECTION



PRE-CAST BASE SECTION
(MEASUREMENT AT THE TOP OF THE BASE)

NOTES:

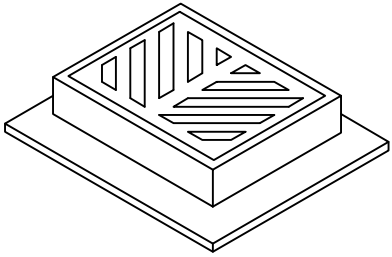
1. CONCRETE INLET TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 & C890 UNLESS OTHERWISE SHOWN ON THE PLANS OR NOTED IN THE STANDARD SPECIFICATIONS. ALL CONCRETE SHALL BE CLASS 4000.
2. REINFORCING SHALL BE EQUIVALENT TO WELDED WIRE FABRIC (WWF) HAVING A MINIMUM AREA OF 0.12 SQUARE INCH PER FOOT. WWF SHALL COMPLY TO ASTM A497. WWF SHALL NOT BE PLACED IN KNOCKOUTS.
3. THE BOTTOM OF THE PRE-CAST BASE SECTION MAY BE ROUNDED.
4. PRE-CAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTSIDE DIAMETER PLUS CONCRETE INLET WALL THICKNESS. KNOCKOUTS MAY BE ROUND OR "D" SHAPED AND MAY BE ON ALL 4 SIDES WITH MAXIMUM DIAMETER OF 17".
6. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
7. THE TAPER ON THE SIDES OF THE PRE-CAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FOOT.
8. FRAME AND GRATE SHALL BE IN ACCORDANCE WITH WSDOT/APWA SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
9. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.



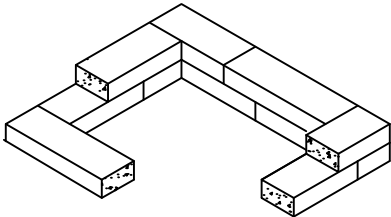
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAN SPEC	

DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL
CONCRETE INLET

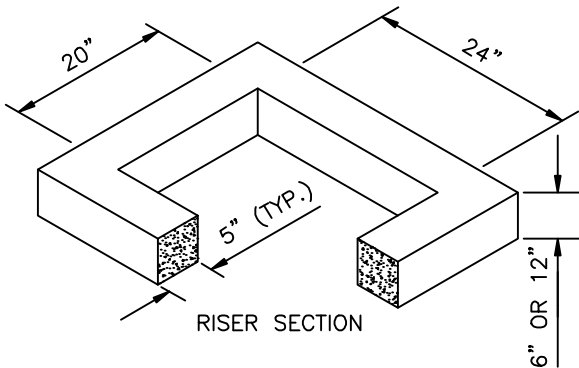
STANDARD DETAIL NUMBER
SD-010



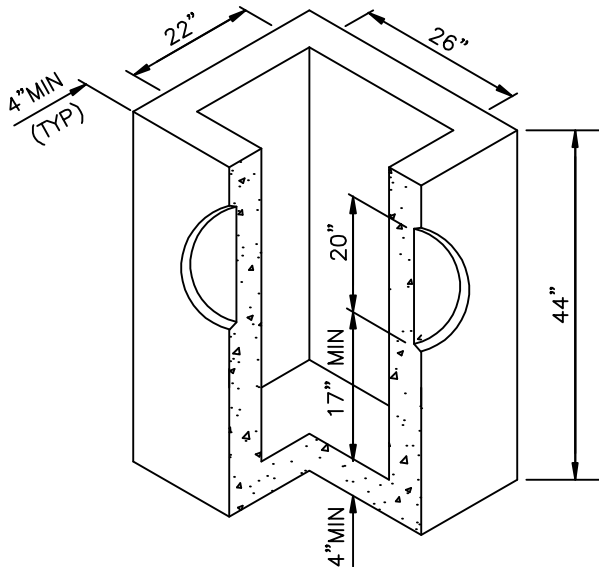
FRAME AND GRATE (OR SOLID COVER),
SEE APPLICABLE STANDARD DETAILS



2"X4"X8" SOLID BRICK USED FOR FINAL
ADJUSTMENT TO GRADE, 6" HIGH MAX.



RISER SECTION



PRE-CAST BASE SECTION
(MEASUREMENT AT THE TOP OF THE BASE)

NOTES:

1. CONCRETE INLET TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 & C890 UNLESS OTHERWISE SHOWN ON THE PLANS OR NOTED IN THE STANDARD SPECIFICATIONS. ALL CONCRETE SHALL BE CLASS 4000.
2. REINFORCING SHALL BE EQUIVALENT TO WELDED WIRE FABRIC (WWF) HAVING A MINIMUM AREA OF 0.12 SQUARE INCH PER FOOT. WWF SHALL COMPLY TO ASTM A497. WWF SHALL NOT BE PLACED IN KNOCKOUTS.
3. THE BOTTOM OF THE PRE-CAST BASE SECTION MAY BE ROUNDED.
4. PRE-CAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTSIDE DIAMETER PLUS CATCH BASIN WALL THICKNESS. KNOCKOUTS MAY BE ROUND OR "D" SHAPED AND MAY BE ON ALL 4 SIDES WITH MAXIMUM DIAMETER OF 20".
6. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
7. THE TAPER ON THE SIDES OF THE PRE-CAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FOOT.
8. FRAME AND GRATE SHALL BE IN ACCORDANCE WITH WSDOT/APWA SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
9. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
10. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.



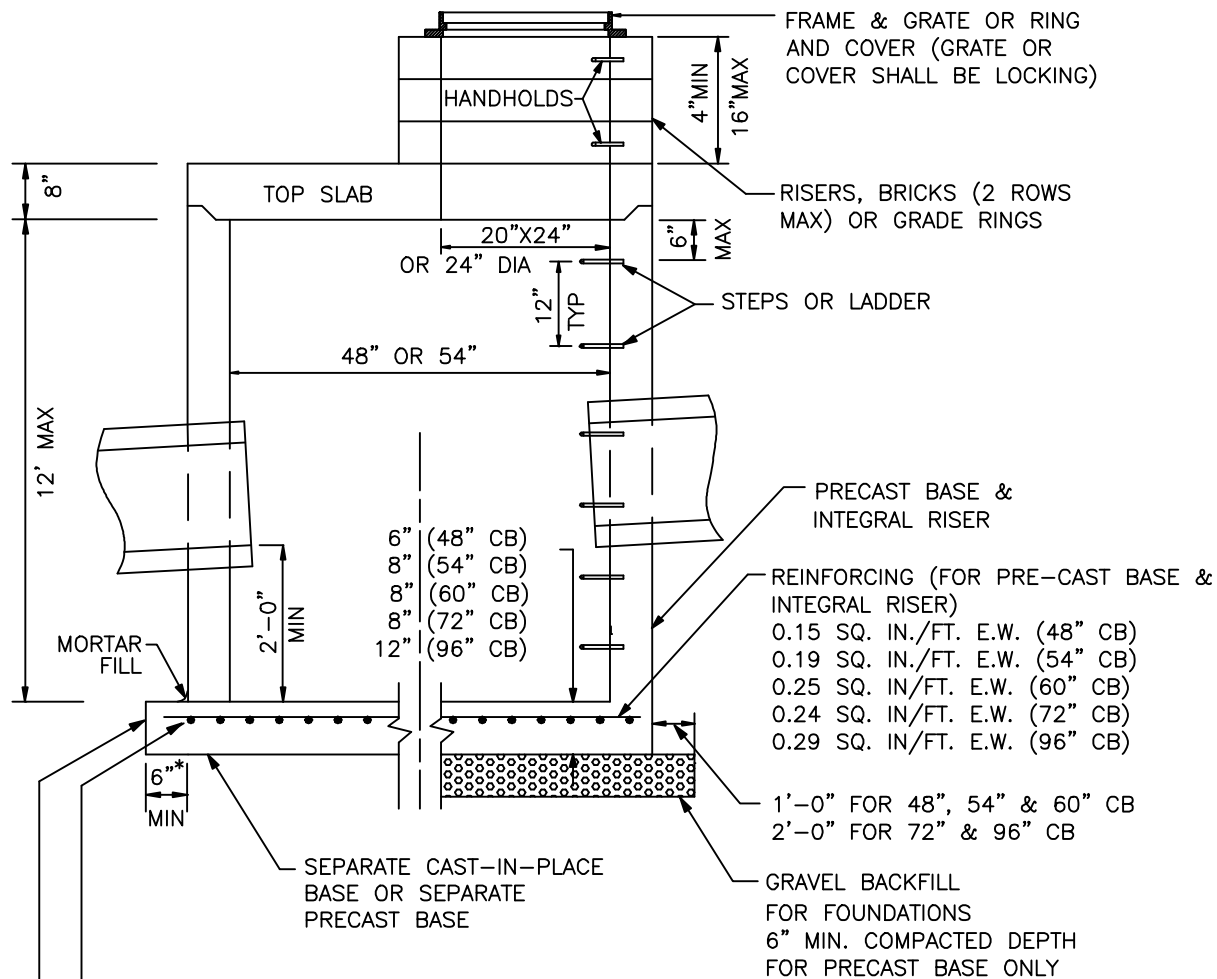
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAN SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

CATCH BASIN TYPE 1

STANDARD DETAIL
NUMBER

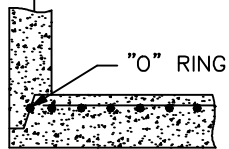
SD-020



* FOR SEPARATE CAST-IN-PLACE ONLY

REINFORCING STEEL (FOR SEPARATE BASES ONLY)

0.23 SQ. IN./FT. E.W. (48" CB)
0.19 SQ. IN./FT. E.W. (54" CB)
0.25 SQ. IN./FT. E.W. (60" CB)
0.35 SQ. IN./FT. E.W. (72" CB)
0.39 SQ. IN./FT. E.W. (96" CB)



PRECAST BASE JOINT

NOTES:

- HANDHOLDS IN RISER OR ADJUSTMENT SECTION SHALL HAVE A 3" MINIMUM CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MINIMUM CLEARANCE. NO STEPS ARE REQUIRED WHEN "B" IS 4' OR LESS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MINIMUM OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE FINISHED GRADE.
- MINIMUM SOIL BEARING STRENGTH SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
- MORTAR SHALL BE PLACED BETWEEN EACH LEVEL OF ADJUSTING RINGS. TOP OF TOP SLAB, AND BOTTOM OF IRON RING.
- SEE THE STANDARD SPECIFICATIONS FOR MORE REQUIREMENTS.



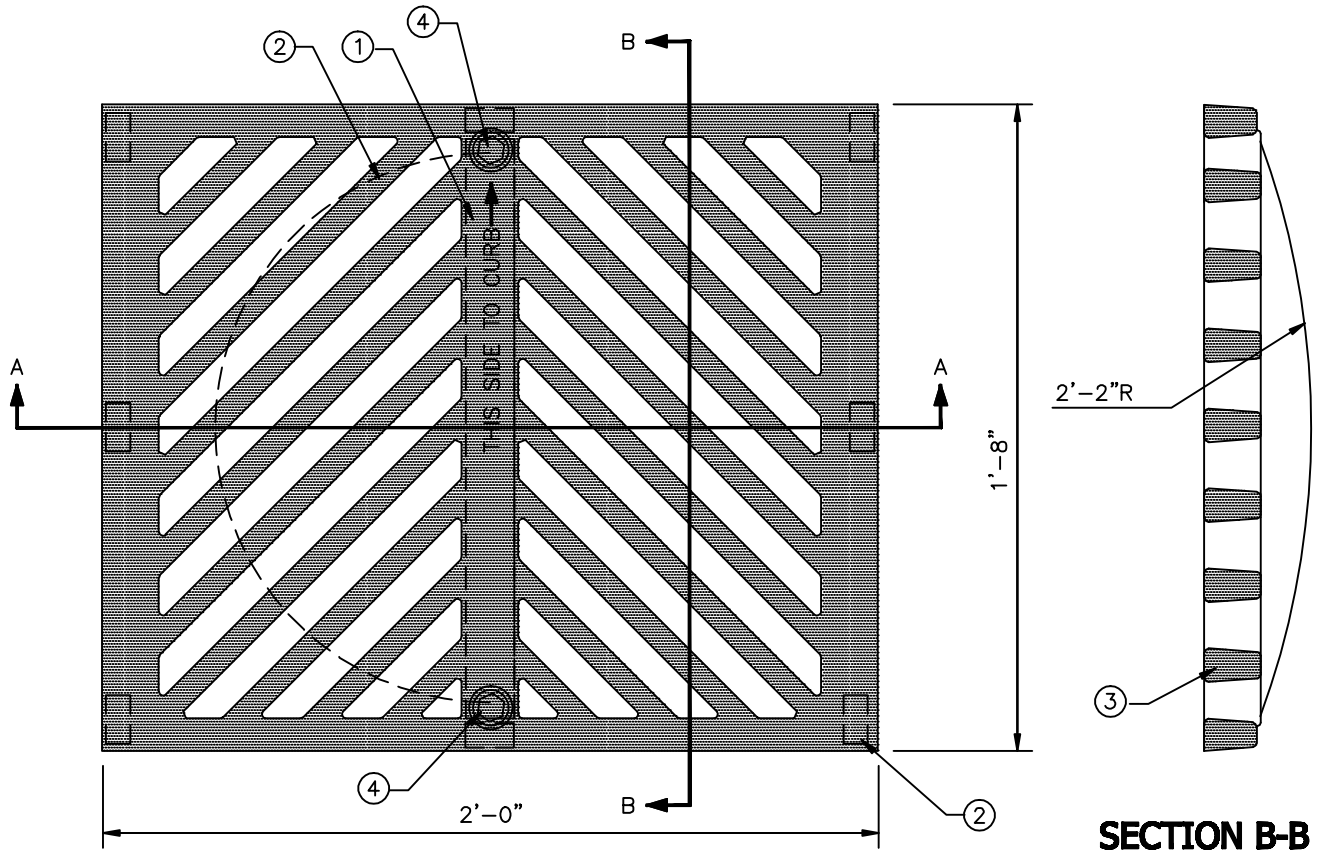
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DATE	07/31/2008
REF STAN SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

CATCH BASIN TYPE 2
48", 54", 60", 72" & 96"

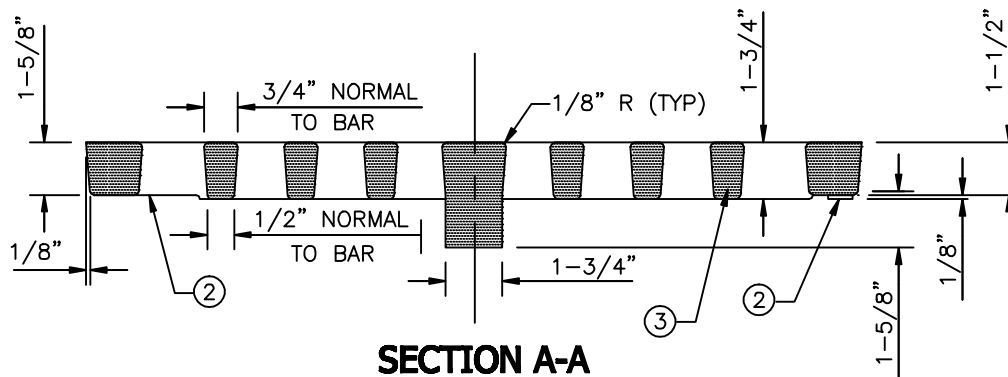
STANDARD DETAIL NUMBER

SD-040



PLAN

SECTION B-B



SECTION A-A

NOTES:

- ① FOUNDRY NAME, THIS SIDE TO CURB W/ARROW AND (DI) FOR DUCTILE IRON SHALL BE EMBOSSED ON TOP OF GRATE WITH 1/16" RECESSED LETTERS.
- ② SEATING OF GRATE SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING: A. 8 INTEGRALLY CAST PADS (1-1/2"x3/4"x1/8"). B. MACHINE BOTTOM SURFACE OUTSIDE A 17" DIA.
- ③ MATERIAL USED SHALL BE DUCTILE IRON PER ASTM-A536, GRADE 80-55-06. ALL CASTINGS SHALL HAVE A BITUMINOUS COATING.
- ④ LOCKING GRATE CASTED HOLES SHALL BE CASTED TO ALLOW FOR TWO 5/8" DIA STAINLESS STEEL SOCKET HEAD CAP SCREWS SO THAT NO PART OF HEAD PROTRUDES ABOVE TOP OF CASTING.
- ⑤ GRATE TO BE USED WITH FRAME SHOWN IN STANDARD DETAIL SD-090.



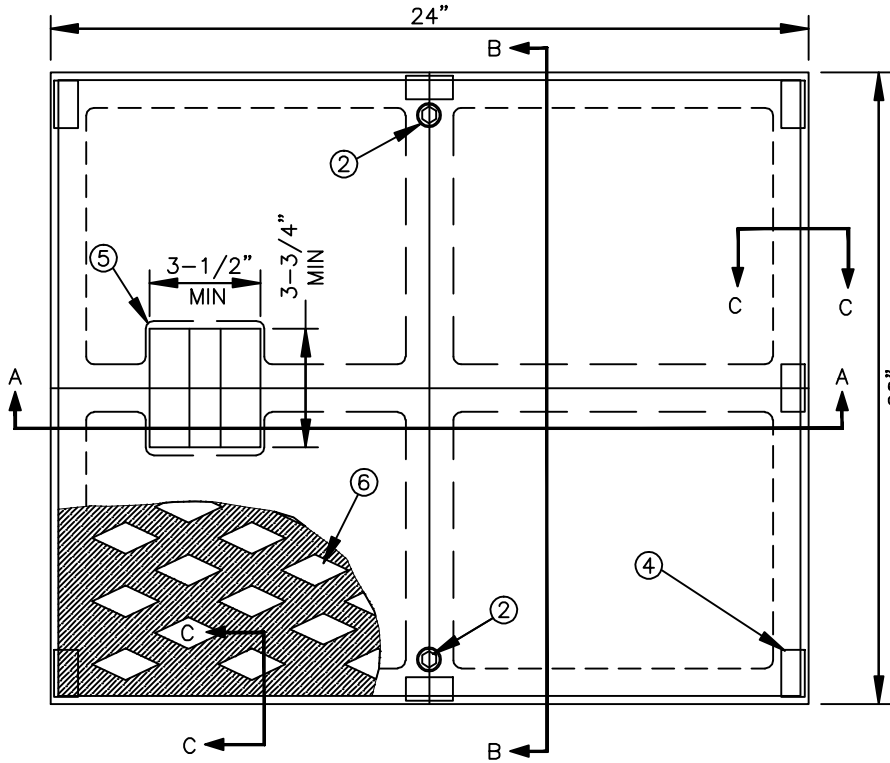
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAN SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

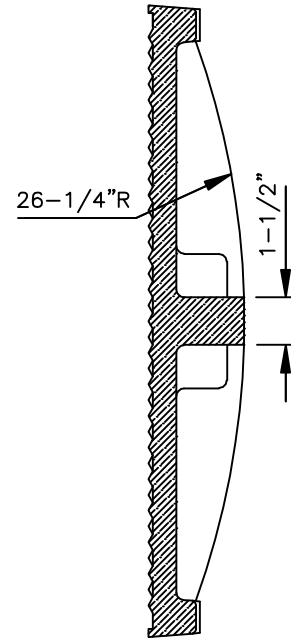
STANDARD GRATE CATCH BASIN INLET

STANDARD DETAIL
NUMBER

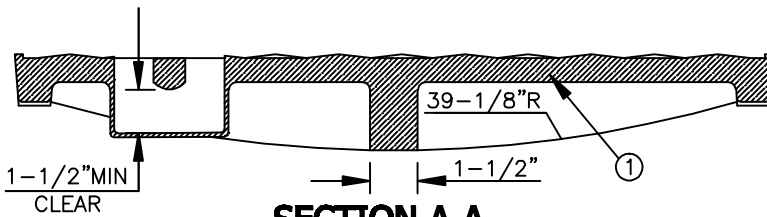
SD-060



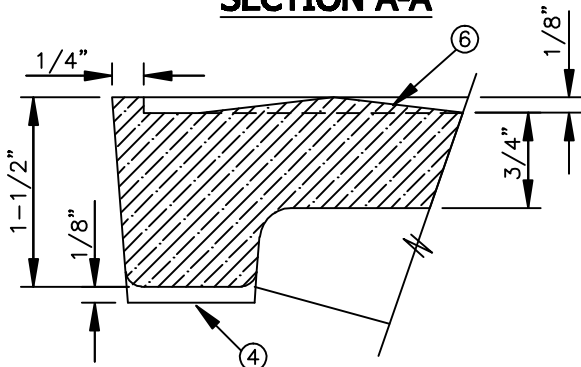
TOP VIEW



SECTION B-B



SECTION A-A



SECTION C-C

NOTE:

- ① MATERIAL USED SHALL BE DUCTILE IRON PER ASTM-A536, GRADE 80-55-06, WITH BITUMINOUS COATING.
- ② LOCKING HOLES TO BE PROVIDED IN CASTING TO ALLOW FOR TWO 5/8" DIA STAINLESS STEEL, SOCKET HEAD CAP SCREWS. NO PART OF SCREW WILL PROTRUDE ABOVE GRATE.
- ③ GRATE TO BE USED WITH FRAME SHOWN IN STD DETAIL SD-090.
- ④ GRATE SEATING: 8 INTEGRALLY CAST PADS.
- ⑤ CAST POCKET LIFT HANDLE.
- ⑥ NON-SKID DIAMOND PATTERN APPROX 2-1/2"x1"x1/8" HIGH



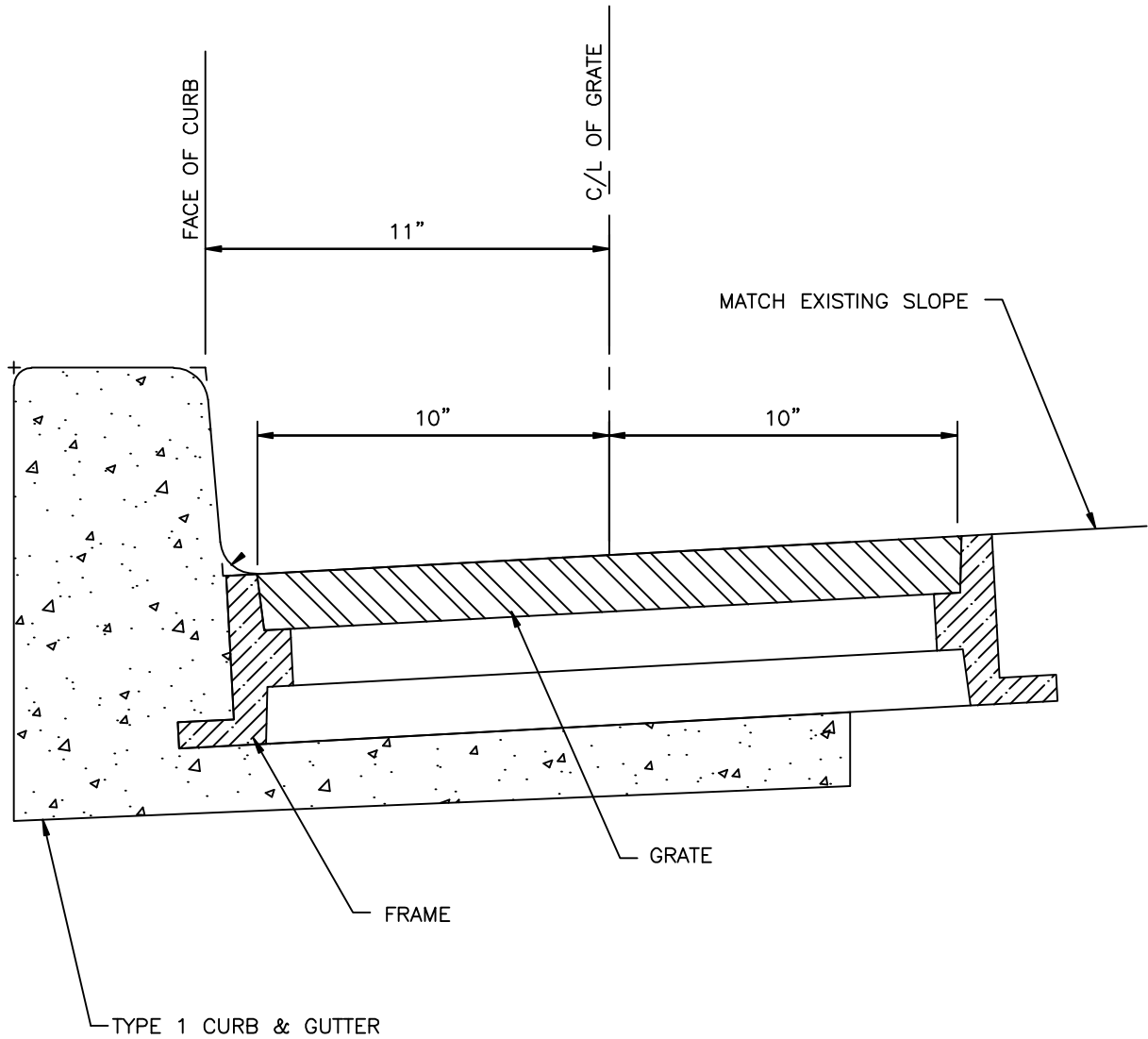
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DATE	07/31/2008
REF STAN SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

SOLID COVER

STANDARD DETAIL
NUMBER

SD-080



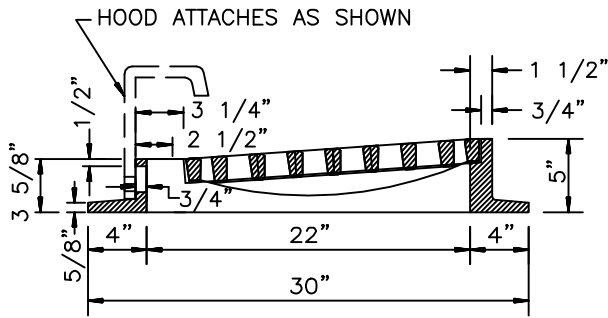
APPROVED BY	L. OLIVE
DATE	07/31/2008
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DEPARTMENT OF PUBLIC WORKS
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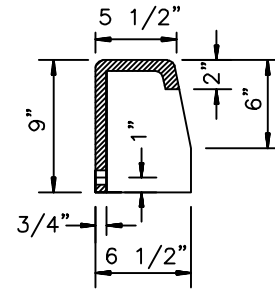
TYPICAL FRAME AND GRATE INSTALLATION

STANDARD DETAIL
 NUMBER

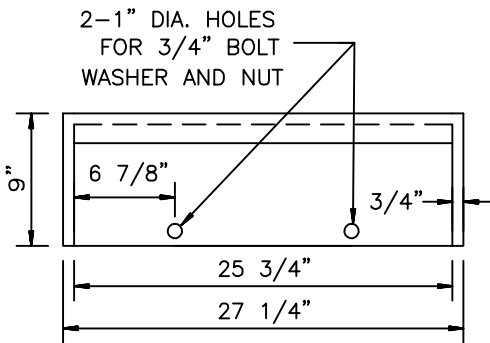
SD-090



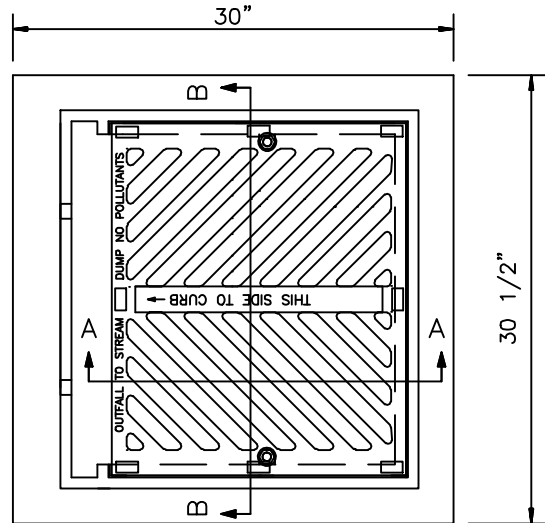
SECTION A-A



HOOD DETAIL - SECTION

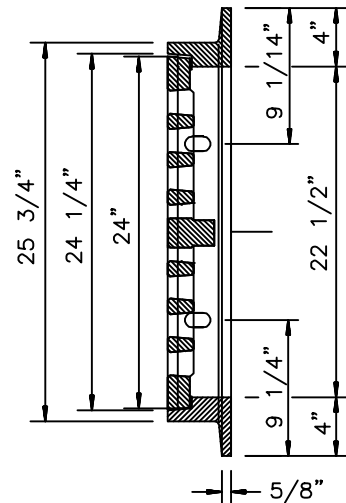


HOOD DETAIL - FRONT



NOTES:

1. GRATE SHALL EITHER BE STANDARD GRATE OR VANED GRATE.
2. GRATE SHALL BE LOCKED DOWN WITH (2) 5/8" STAINLESS STEEL SOCKET HEAD CAP SCREWS.
3. LEVELING PADS 1 1/2"X 3/4"X 1/8" SHALL BE USED.
4. FRAME SHALL BE CAST IRON ASTM A48 CL. 30.
5. INSTALL 3/16" NON-SKID DIAMOND PATTERN ON TOP SURFACE OF HOOD.
6. BOLT, WASHER, AND NUT SHALL BE GALVANIZED OR CORROSION RESISTANT.
7. FOR INSTALLATION ON ARTERIALS. FOR NON-ARTERIALS, ALTERNATE THROUGH CURB INLET FRAMES FOR 18" X 24" GRATES MAY BE INSTALLED.



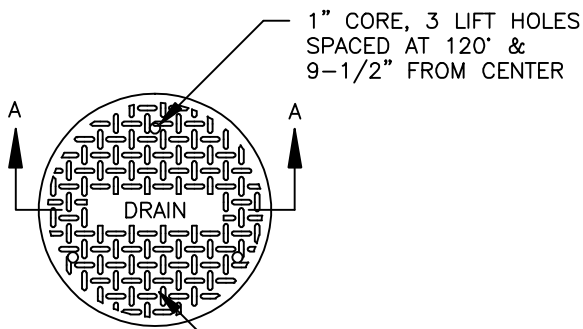
SECTION B-B



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REF STAN SPEC	

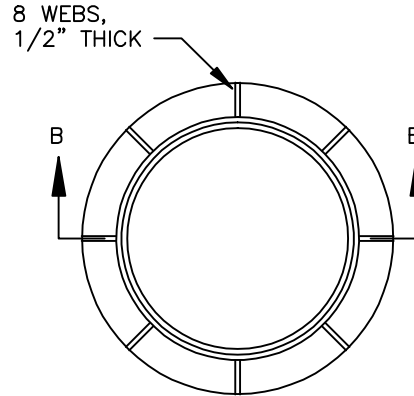
DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL
 THROUGH CURB INLET FRAME

STANDARD DETAIL NUMBER
SD-100

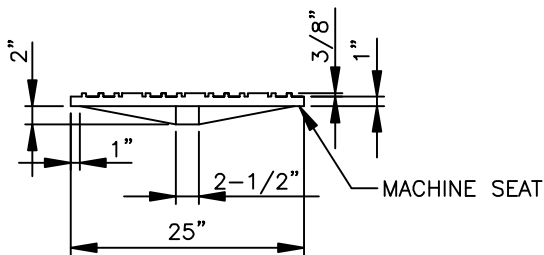


PLAN

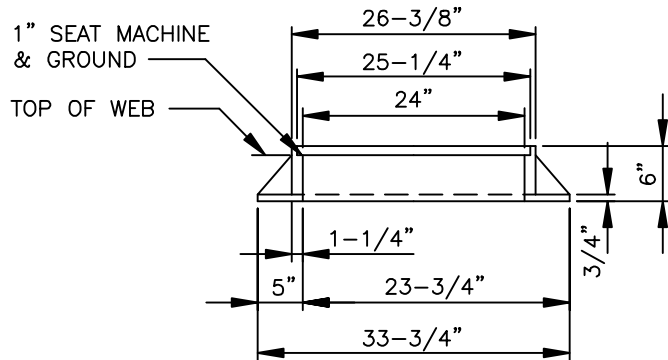
NON-SKID PATTERN
TO BE CAST INTEGRAL
ON TOP OF COVER
(SEE NOTE 4)



FRAME PLAN



SECTION A-A



SECTION B-B

COVER NOTES:

1. USE WITH THREE LOCKING BOLTS 5/8" DIA STAINLESS STEEL TYPE 304 SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG. DRILL HOLES SPACED 120° TO MATCH HOLES IN RING.
2. COVER MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
3. APPROXIMATE WEIGHT OF COVER IS 150 LBS.
4. TRAFFIC RATING: H-20.

RING NOTES:

1. DRILL THREE 5/8" HOLES THROUGH RING SPACED AT 120°.
2. RING MATERIAL IS GREY IRON, ASTM A-48 CLASS 30.
3. APPROXIMATE WEIGHT OF RING IS 215 LBS.
4. TRAFFIC RATING: H-20.



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REF STAN SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

24" BOLT-LOCKING MANHOLE
RING & COVER

STANDARD DETAIL
NUMBER

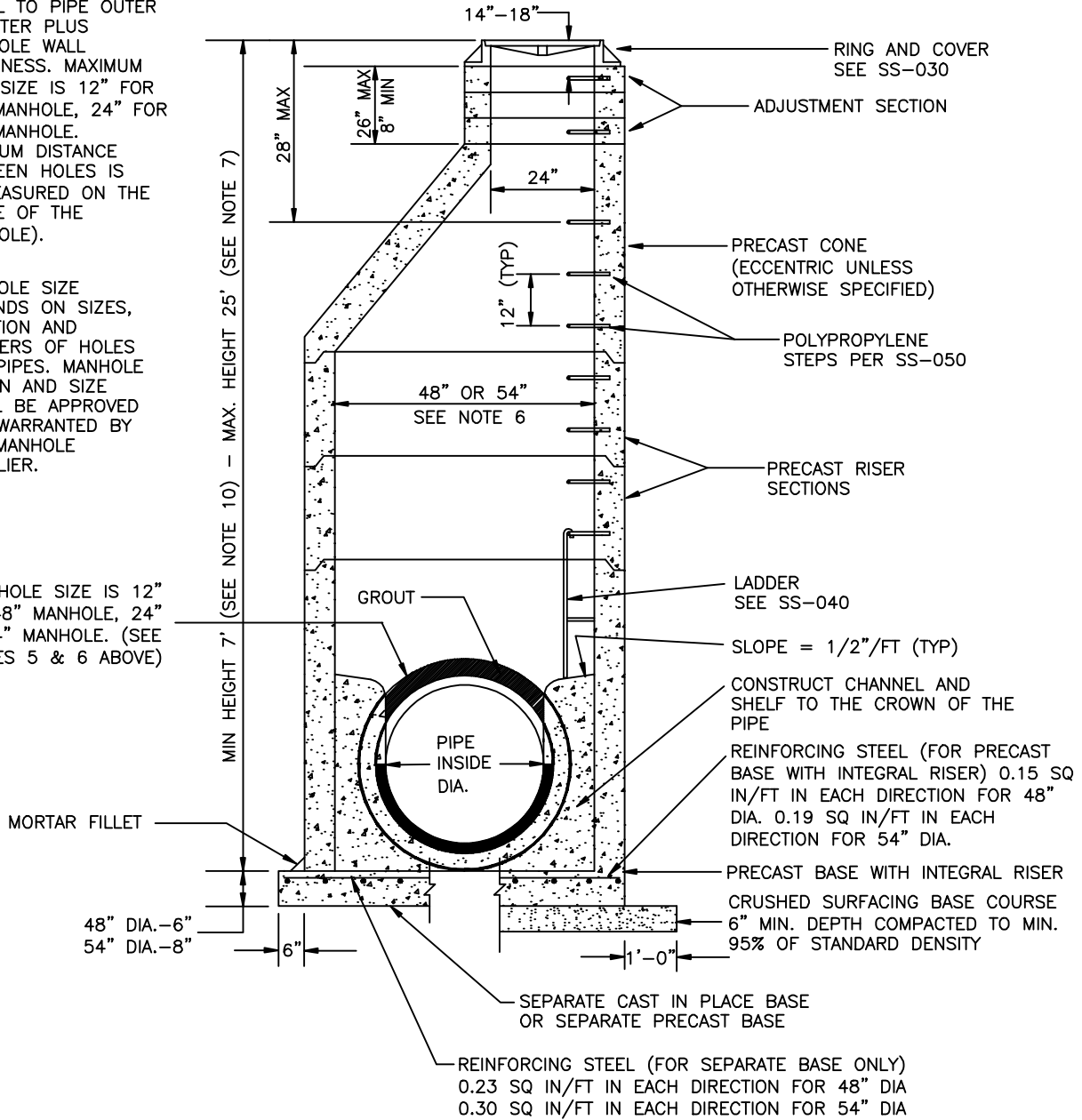
SD-110

NOTES:

1. MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M-199 (ASTM C 478) UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN STANDARD SPECIFICATIONS.
2. ALL REINFORCED CAST IN PLACE CONCRETE SHALL BE CLASS 4000. NON-REINFORCED CONCRETE IN CHANNEL AND SHELF SHALL BE CLASS 3000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
3. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS.
4. ALL BASE REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MINIMUM CLEARANCE.
5. CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MAXIMUM PIPE SIZE IS 12" FOR 48" MANHOLE, 24" FOR 54" MANHOLE. MINIMUM DISTANCE BETWEEN HOLES IS 8"(MEASURED ON THE INSIDE OF THE MANHOLE).
6. MANHOLE SIZE DEPENDS ON SIZES, LOCATION AND NUMBERS OF HOLES FOR PIPES. MANHOLE DESIGN AND SIZE SHALL BE APPROVED AND WARRANTED BY THE MANHOLE SUPPLIER.
7. FOR DEPTHS OVER 25' MANHOLE BASE SLAB DESIGN SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
8. ALL INTERIOR AND EXTERIOR JOINTS TO BE GROUTED (SEE GROUT SPECIFICATIONS). GROUT TO BE 1/2" THICK MINIMUM AND 3" EACH SIDE OF JOINT MINIMUM. THEY MUST BE INSPECTED PRIOR TO BACKFILL.
9. CORE DRILLING ONLY, HAMMERING KNOCKOUTS WILL NOT BE ALLOWED. KOR-N-SEAL FACTORY INSTALLED BOOTS ARE ALLOWED.
10. MANHOLES 5'-7' DEEP MUST BE FLAT TOPS.

MAX. HOLE SIZE IS 12" FOR 48" MANHOLE, 24" FOR 54" MANHOLE. (SEE NOTES 5 & 6 ABOVE)

MIN HEIGHT 7' (SEE NOTE 7) - MAX. HEIGHT 25' (SEE NOTE 10)



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REF STAD SPEC	

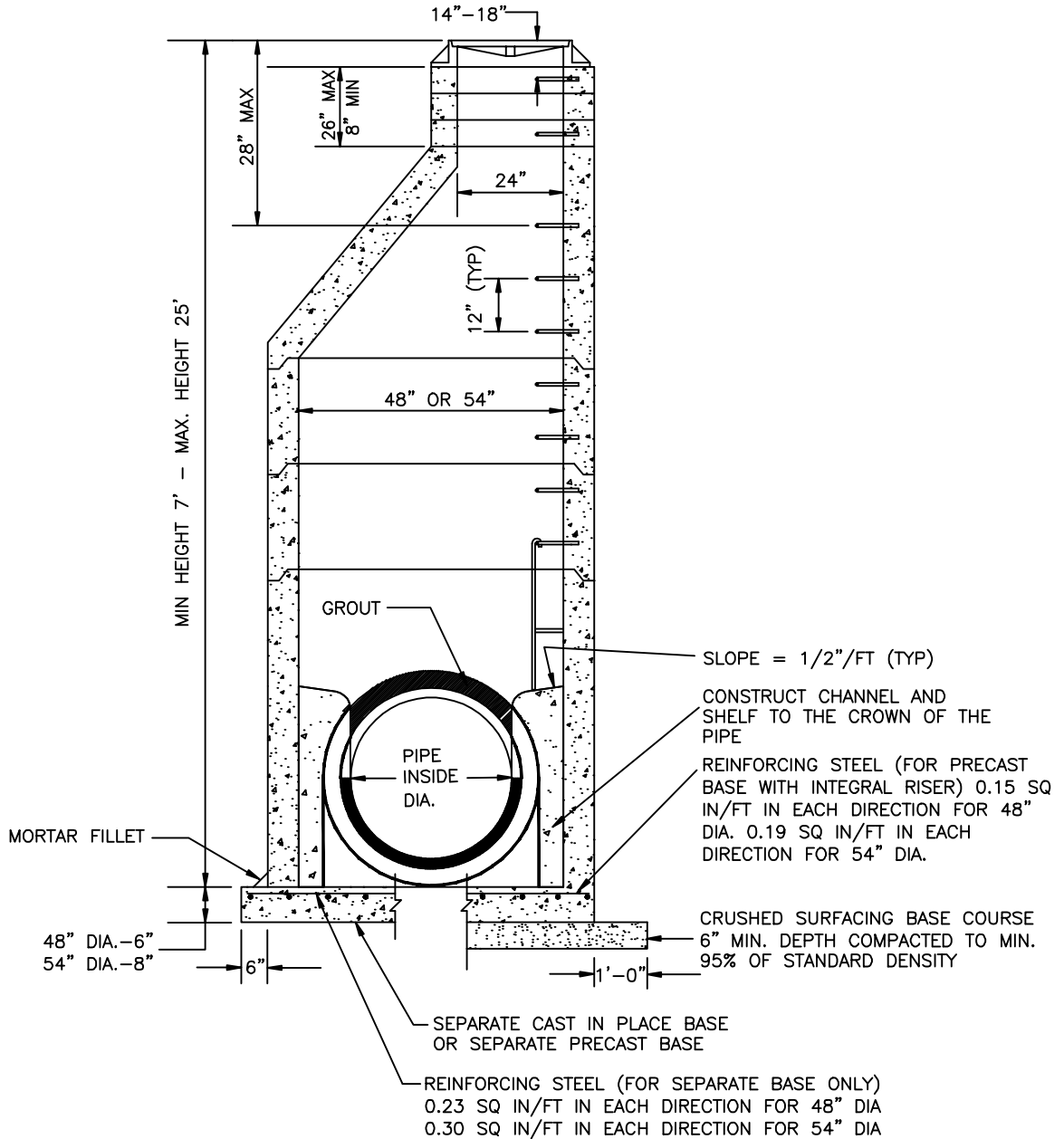
DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

MANHOLE TYPE I

STANDARD DETAIL NUMBER
SS-010

NOTES:

1. SADDLE MANHOLE MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING SEWER LINE. SIZE, LOCATION, AND ANGLE MUST BE AS REQUIRED BY PLANS.
2. OPENINGS IN PRECAST UNITS ARE TO BE 4" MINIMUM TO 8" MAXIMUM LARGER THAN THE OUTSIDE DIAMETER OF THE PROPOSED PIPE.
3. CONSTRUCT BENCH AND INVERT TO ALLOW SMOOTH TRANSITION OF FLOW FROM NEW SEWER TO EXISTING SEWER.
4. ALL NOTES ON SS-010 AND SS-015 ALSO APPLY TO THIS DETAIL.

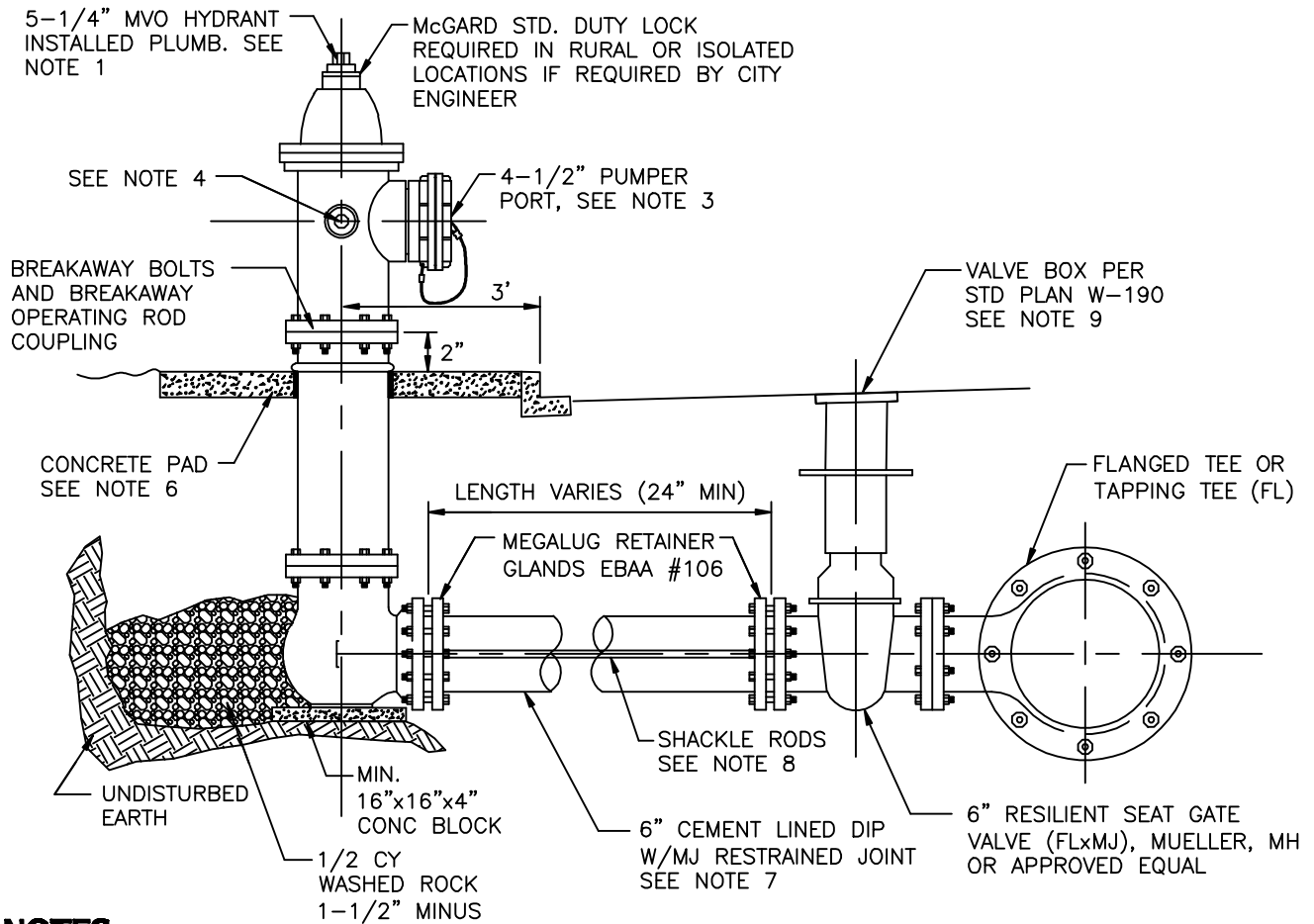


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REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

SADDLE MANHOLE

STANDARD DETAIL NUMBER
SS-020



NOTES:

1. HYDRANTS AND ALL MATERIALS SHALL CONFORM TO AWWA STANDARDS AND SHALL BE OF STANDARD MANUFACTURE (M&H 929 RELIANT OR MUELLER SUPER CENTURION 250 ONLY).
2. THE CENTER OF THE HYDRANT SHALL BE 3' FROM FACE OF CURB. IF THERE IS NO CURB, THE CENTER OF HYDRANT SHALL BE 3' FROM RIGHT-OF-WAY AND A MINIMUM OF 5' FROM TRAVELED LANE.
3. ONE 5" TO 4-1/2" PUMPER PORT W/N.S.T. AND STORZ ADAPTER ASSEMBLY. PUMPER PORT TO BE FACING STREET OR ROADWAY FOR THE FIRE ENGINE ACCESS.
4. TWO 2-1/2" HOSE PORTS W/N.S.T. AND 1-1/4" OPERATING NUTS.
5. PROVIDE GUARD POSTS FOR VEHICULAR TRAFFIC PROTECTION IF REQUIRED BY CITY ENGINEER PER STD. DETAIL W-030.
6. INSTALL 3'x3'x4" CONCRETE PAD (3000 PSI) AROUND HYDRANT IN UNPAVED AREAS INCLUDING PLANTER STRIPS. COMPLETELY SURROUND HYDRANT W/FULL DEPTH OF CONCRETE PAD WITH 1/4" JOINT MATERIAL BEFORE PLACING CONCRETE.
7. HYDRANT RUN TO BE 6" CEMENT LINED DUCTILE IRON PIPE CLASS 52 WITH RESTRAINED JOINTS (MEGALUG OR APPROVED EQUAL). HYDRANT RUN LONGER THAN 50 FEET SHALL BE 8" DIA. OR LARGER.
8. 3/4" GALV. SHACKLE RODS WITH THE EYE BOLTS AT BOTH ENDS REQUIRED FROM VALVE TO HYDRANT.
9. FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF HIGH GLOSS EQUIPMENT YELLOW "RUST-OLEUM" TYPE PAINT.
10. INSTALL 24"x24"x4" CONCRETE PAD (3000 PSI) AROUND VALVE BOX AND 48"x48"x4" FOR MULTIPLE VALVE BOXES IN UNPAVED AREA.



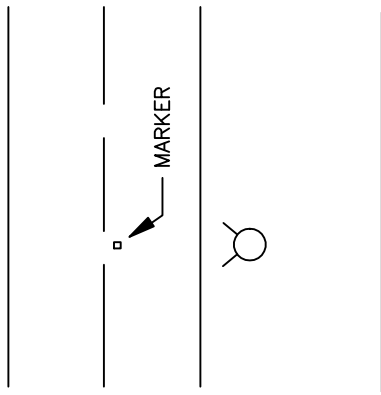
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DATE	07/31/2008
REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS

FIRE HYDRANT ASSEMBLY

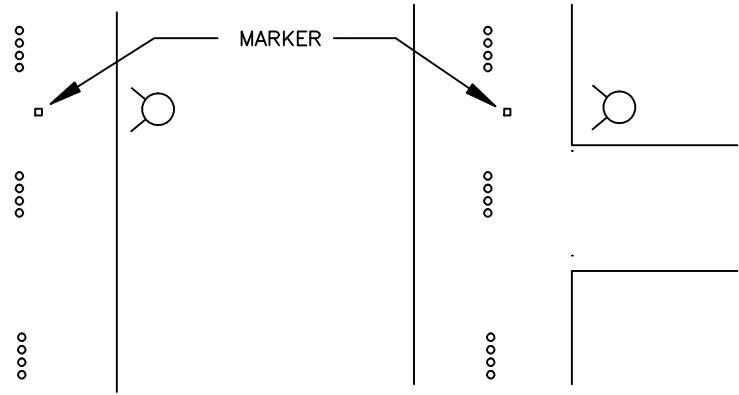
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W-010



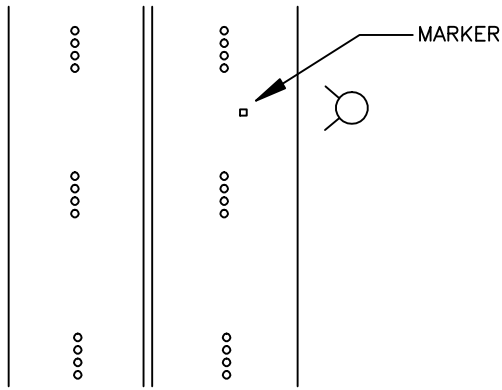
TWO LANE ROAD

OFFSET MARKER TO INDICATE WHICH SIDE OF STREET HYDRANT IS ON. MARKER TO BE PLACED 4" TO 6" OFF OF CENTERLINE



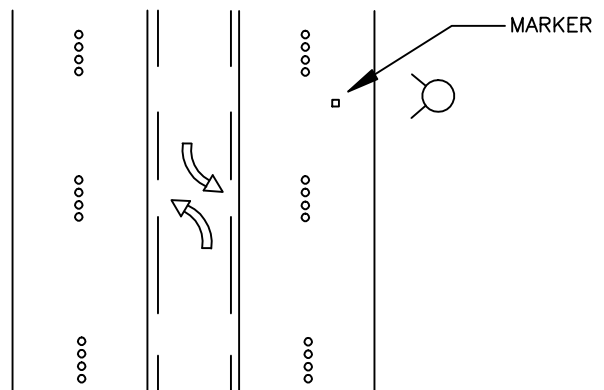
ON SIDE STREETS

WHERE THE HYDRANT IS WITHIN 20' OF THE MAIN TRAVELED STREET, THE MARKER IS TO BE INSTALLED ON THAT MAIN STREET AND 4" TO 6" OFF THE CENTERLINE.



FOUR LANE ROAD

OFFSET MARKER TO INDICATE WHICH SIDE OF STREET HYDRANT IS ON. MARKER TO BE PLACED 4" TO 6" OFF OF DOTS OR PAINTED LANE DIVIDER.



FIVE LANE ROAD

OFFSET MARKER TO INDICATE WHICH SIDE OF STREET HYDRANT IS ON. MARKER TO BE PLACED 4" TO 6" OFF OF DOTS OR PAINTED LANE DIVIDER.

NOTE:

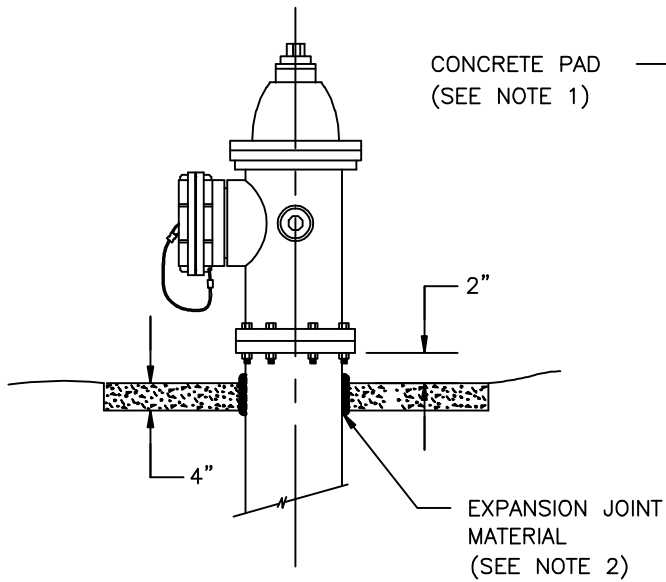
MARKER: TYPE 88 AB STIMSONITE TWO WAY (BLUE)



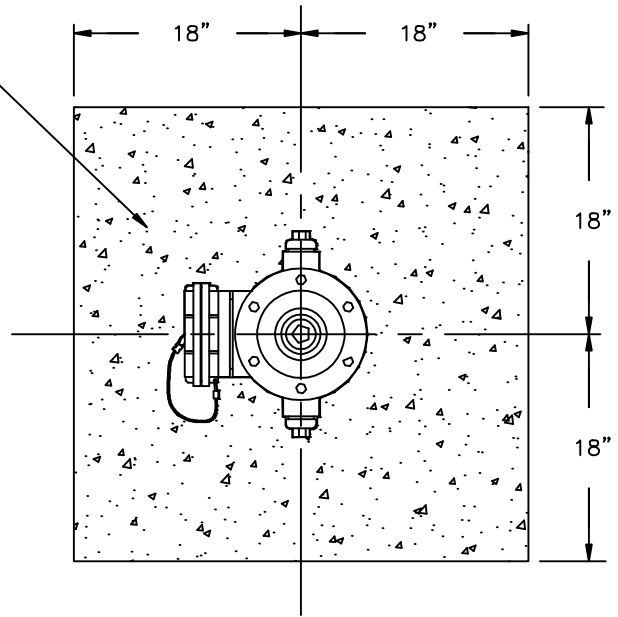
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DATE	07/31/2008
REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS
FIRE HYDRANT MARKER

STANDARD DETAIL NUMBER W-015



ELEVATION



PLAN

NOTES:

1. CONCRETE SHALL BE CLASS 3000 PSI MIN.
2. INSTALL 1/4" EXPANSION JOINT MATERIAL WITH FULL DEPTH OF CONCRETE PAD AROUND HYDRANT.



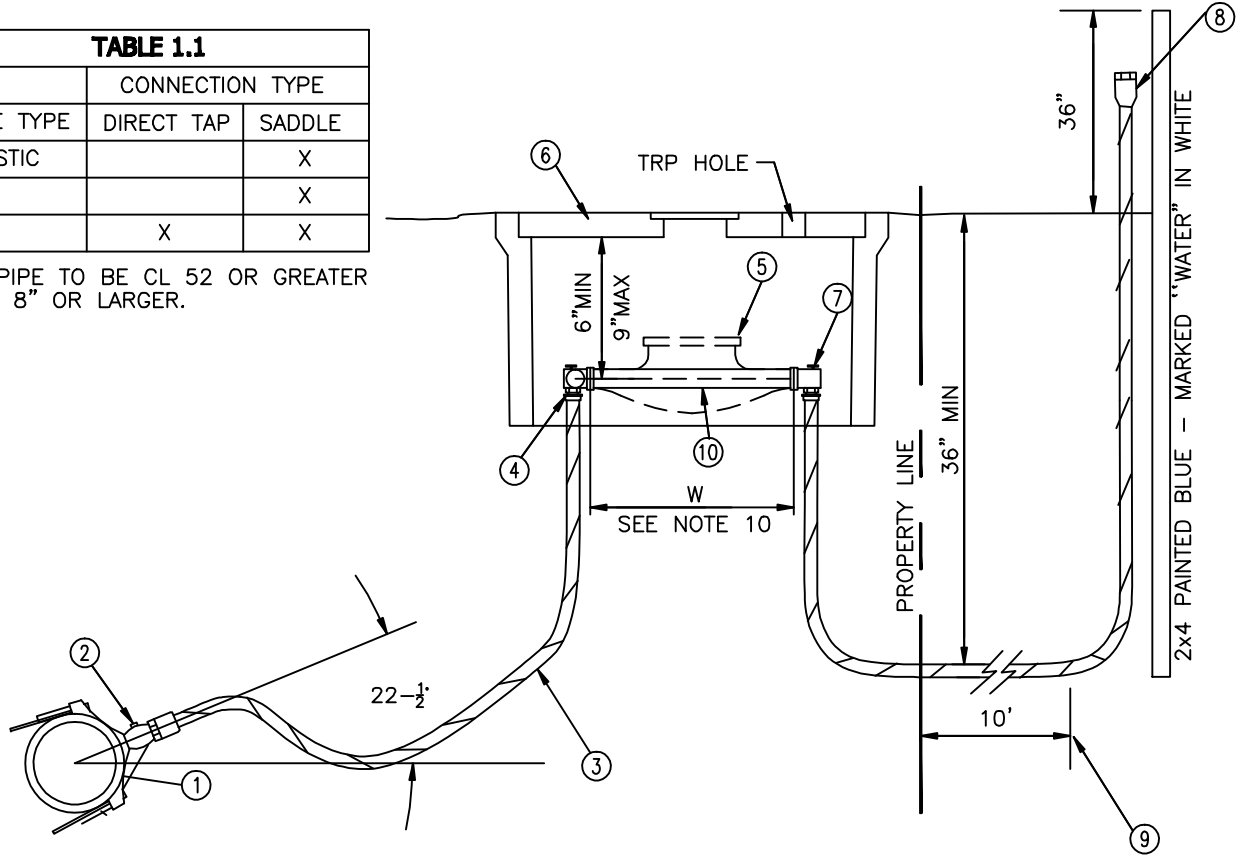
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS
 FIRE HYDRANT CONCRETE PAD

STANDARD DETAIL
 NUMBER
W-020

TABLE 1.1		
	CONNECTION TYPE	
PIPE TYPE	DIRECT TAP	SADDLE
PLASTIC		X
AC		X
DI *	X	X

* DI PIPE TO BE CL 52 OR GREATER AND 8" OR LARGER.



NOTES AND MATERIALS:

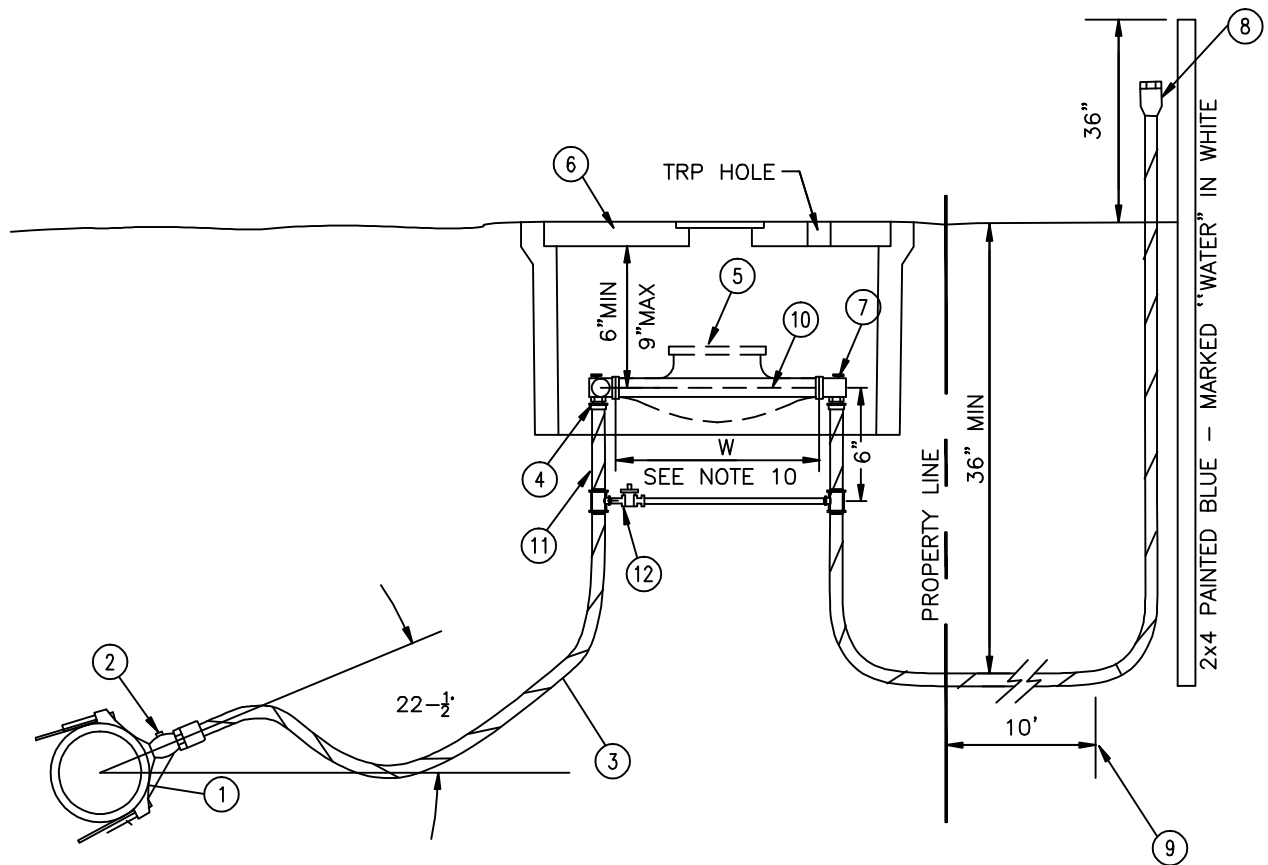
- ① 1" CC SERVICE SADDLE W/DOUBLE STAINLESS STEEL STRAP OR DIRECT TAP CC THREAD CORP SEE TABLE 1.1 ABOVE.
- ② 1" BALL VALVE CORPORATE STOP CC X COMPRESSION WITH KEY FACING UP, MUELLER OR FORD ONLY.
- ③ 1" HDPE CTS CLASS 200 HIGH SERVICE PIPE (200 PSI RATING) WITH STAINLESS STEEL STIFFENER AND 10 GAUGE COATED COPPER TRACER WIRE WRAPPED AROUND THE PIPE AND ATTACHED ON BOTH ENDS.
- ④ FOR 5/8"x3/4" METER, A 1" COMPRESSION ANGLE METER BALL VALVE x 5/8" METER IS REQUIRED. FOR 1" METER, A 1" COMPRESSION ANGLE METER BALL VALVE x 1" METER IS REQUIRED. BALL VALVES ARE LOCKABLE.
- ⑤ METER SHALL BE INSTALLED BY CITY UTILITIES DIVISION AT OWNER'S EXPENSE.
- ⑥ METER BOX SHALL BE MIDSTATES PLASTICS 1324-12 W/SOLID DI LID WITH 1 3/4" HOLE FOR TOUCH READ PAD (TRP).
- ⑦ 5/8" x 3/4" METERS REQUIRE A 3/4" ANGLE METER CHECK COUPLING x 5/8" METER WITH A 3/4" MIPT x 1" COMPRESSION ADAPTER. 1" METER REQUIRES A 1" ANGLE METER CHECK COUPLING x 1" METER.
- ⑧ 1" COMPRESSION x FIPT ADAPTER WITH 1" PLASTIC PLUG.
- ⑨ EXTEND SERVICE PIPE 10' BEYOND PROPERTY LINE AND AN ADDITIONAL 5' BEYOND EASEMENT LINE.
- ⑩ METER LENGTH BLANK STUB.



APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS
 5/8" x 3/4" & 1"
 RESIDENTIAL WATER SERVICE

STANDARD DETAIL
 NUMBER
W-040



NOTES AND MATERIALS:

- ① 2" CC SERVICE SADDLE W/DOUBLE STAINLESS STEEL STRAP.
- ② 2" BALL VALVE CORPORATE STOP COMPRESSION WITH KEY FACING UP, MUELLER OR FORD ONLY.
- ③ 2" HDPE CTS CLASS 200 HIGH SERVICE PIPE (200 PSI RATING) WITH STAINLESS STEEL STIFFENER AND 10 GAUGE COATED COPPER TRACER WIRE WRAPPED AROUND THE PIPE AND ATTACHED ON BOTH ENDS.
- ④ 2" COMPRESSION ANGLE METER BALL VALVE (LOCKABLE).
- ⑤ METER (SIZE AS SHOWN IN PLAN) SHALL BE INSTALLED BY CITY UTILITIES DIVISION AT OWNER'S EXPENSE. CITY WILL INSTALL ADAPTERS AT BOTH ENDS OF METER IF THE METER IS NOT 2".
- ⑥ METER BOX SHALL BE MIDSTATES PLASTICS (1730-18) W/SOLID DI LID WITH 1 3/4" HOLE FOR TOUCH READ PAD (TRP).
- ⑦ 2" ANGLE METER CHECK COUPLING (LOCKABLE).
- ⑧ COMPRESSION x FIPT ADAPTER WITH PLASTIC PLUG.
- ⑨ EXTEND SERVICE PIPE 10' BEYOND PROPERTY LINE AND AN ADDITIONAL 5' BEYOND EASEMENT LINE.
- ⑩ METER LENGTH BLANK STUB FOR A 2" METER, W=17-1/4".
- ⑪ 2" METER SETTER, FORD OR MUELLER.
- ⑫ BYPASSES MUST BE HIGH BYPASS OR SIDE-BY SIDE WITH THE METER.



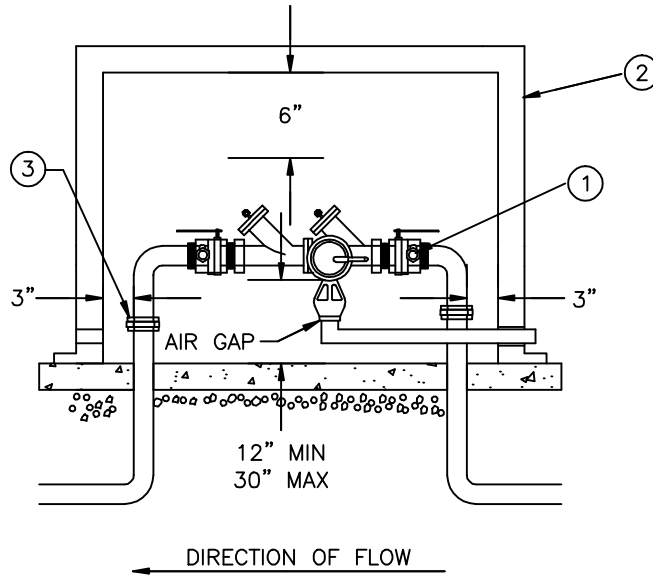
APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS

2" AND SMALLER
NON-RESIDENTIAL WATER SERVICE

STANDARD DETAIL
NUMBER

W-050



ELEVATION

MATERIAL LIST:

- ① UL-FM LISTED WASHINGTON STATE APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY INCLUDING TWO BALL VALVES, AND TESTS COCKS.
- ② INSULATED PROTECTIVE ENCLOSURE (HOT BOX) REQUIRED FOR OUTSIDE INSTALLATIONS. THE PROTECTIVE ENCLOSURE MUST BE PROVIDED WITH DRAINS AT BOTH ENDS OF THE BOTTOM SUFFICIENTLY SIZED TO PROVIDED FREE GRAVITY DRAINAGE OF MAXIMUM DISCHARGE OF RELIEF VALVE PORT (2" MIN).
- ③ 90° ELBOW WITH A CLOSE NIPPLE AND UNION ON VERTICAL.

NOTES:

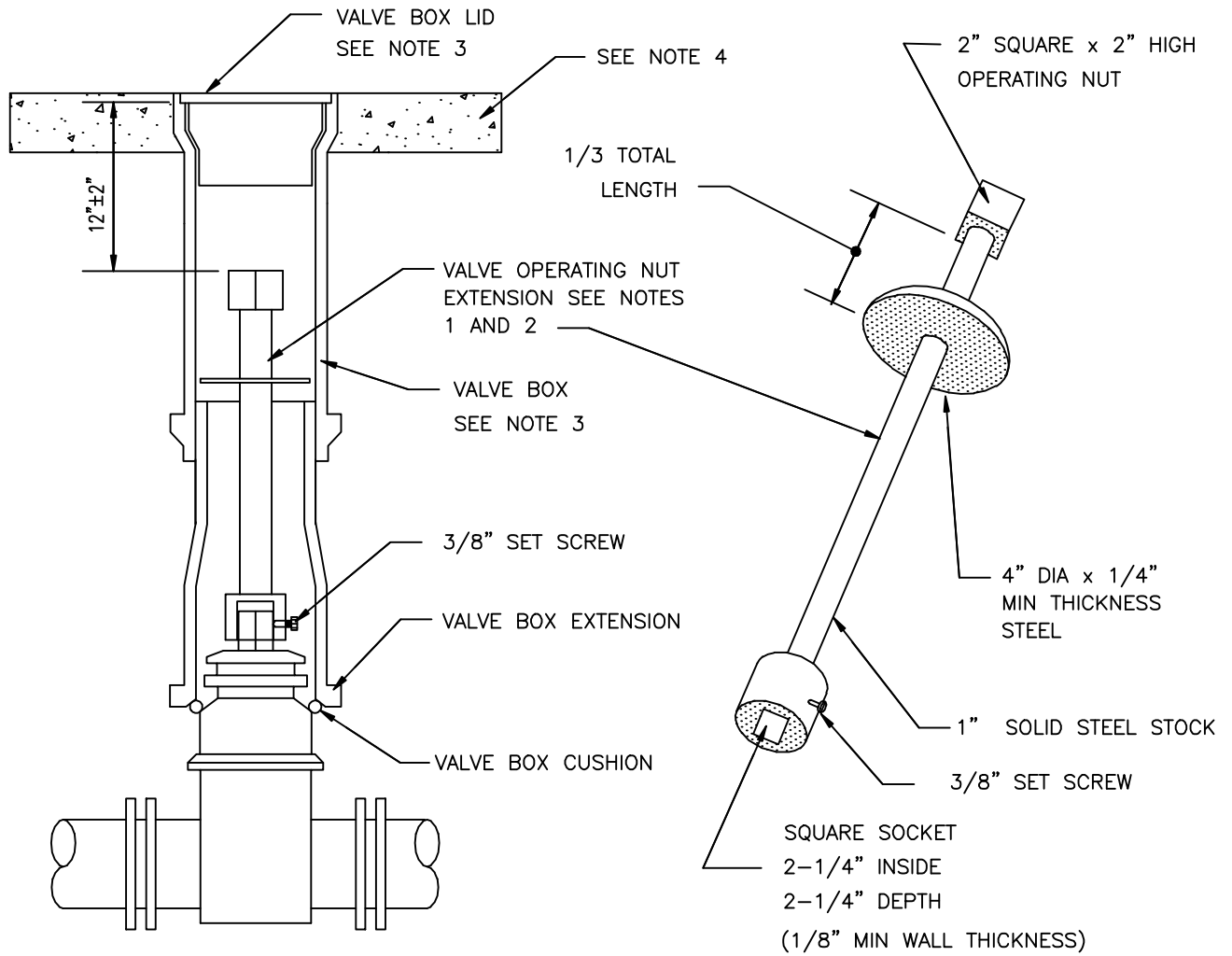
- 1. ASSEMBLY REQUIRES CERTIFICATION UPON INSTALLATION AND RECERTIFICATION ANNUALLY, BY OWNER.
- 2. THE ENCLOSURE MUST BE INSTALLED ON A 4" THICK CONCRETE PAD.
- 3. AN ELECTRICAL OUTLET MUST BE PROVIDED.
- 4. GUARD POSTS SHALL BE INSTALLED IF LOCATED IN A TRAFFIC AREA.
- 5. ALL BRANCH CONNECTIONS SHALL BE LOCATED ON THE DOWNSTREAM SIDE OF THE ASSEMBLY.



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DATE	07/31/2008
REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS
REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) 2" AND SMALLER

STANDARD DETAIL NUMBER
W-130



VALVE BOX AND EXTENSION

VALVE OPERATING NUT EXTENSION

NOTES:

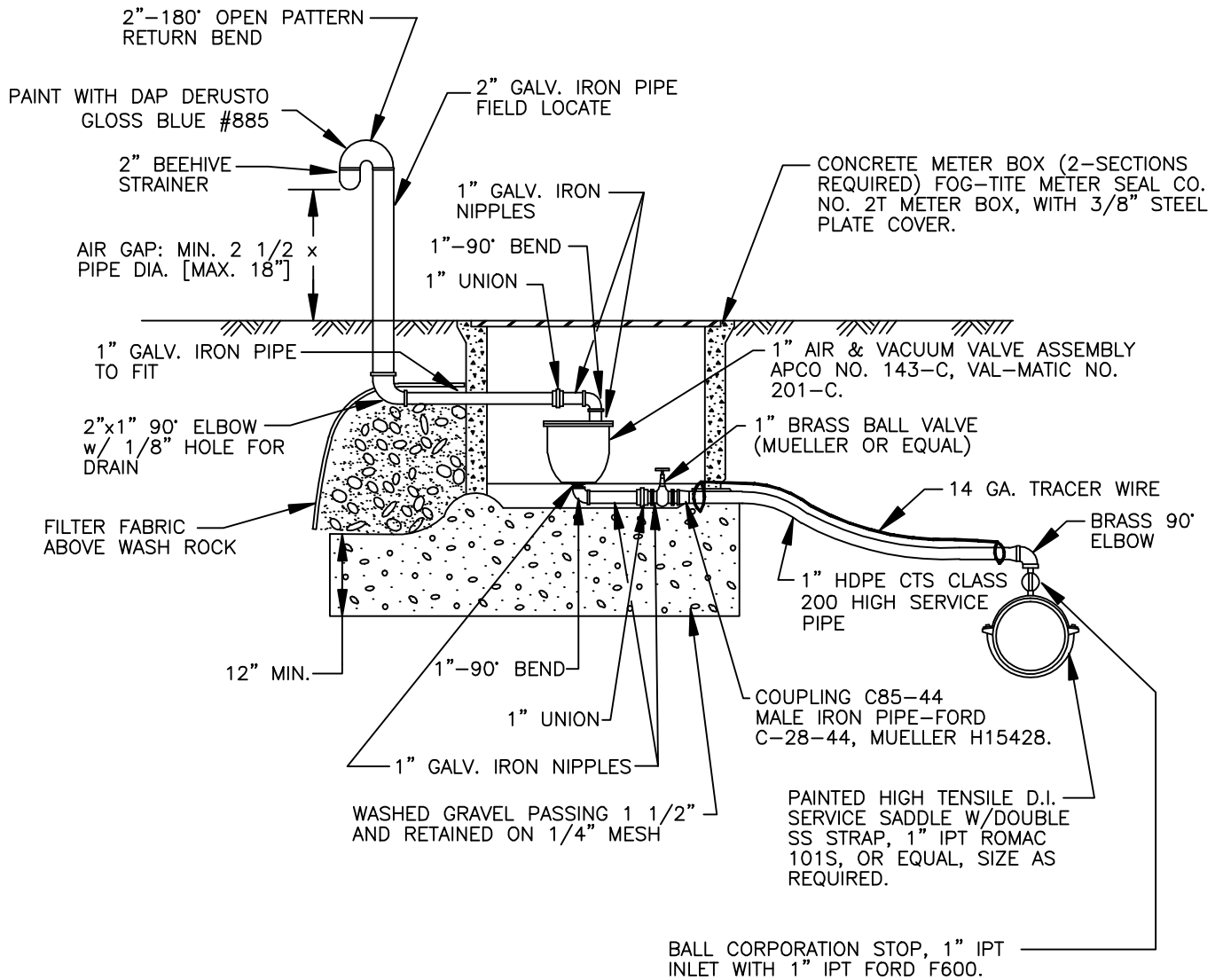
1. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN THREE (3) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF ONE (1) FOOT LONG. ONLY ONE EXTENSION WILL BE ALLOWED PER VALVE.
2. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO (2) COATS OF METAL PAINT.
3. VALVE BOXES SHALL BE CAST IRON, TWO PIECE UNITS, DESIGNED WITH DEEP SKIRT (2") LIDS W/LUGS, EQUAL TO "RICH NO. 940" AS MANUFACTURED BY RICH OR SATHER.
4. 4" THICK CONCRETE PAD AROUND VALVE BOXES OUTSIDE OF PAVED AREAS. 2'x2' SQUARE AROUND SINGLE VALVE BOXES AND 4'x4' AROUND MULTIPLE VALVE BOXES.



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DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS
VALVE BOX AND
OPERATING NUT EXTENSION

STANDARD DETAIL
NUMBER
W-190



NOTES:

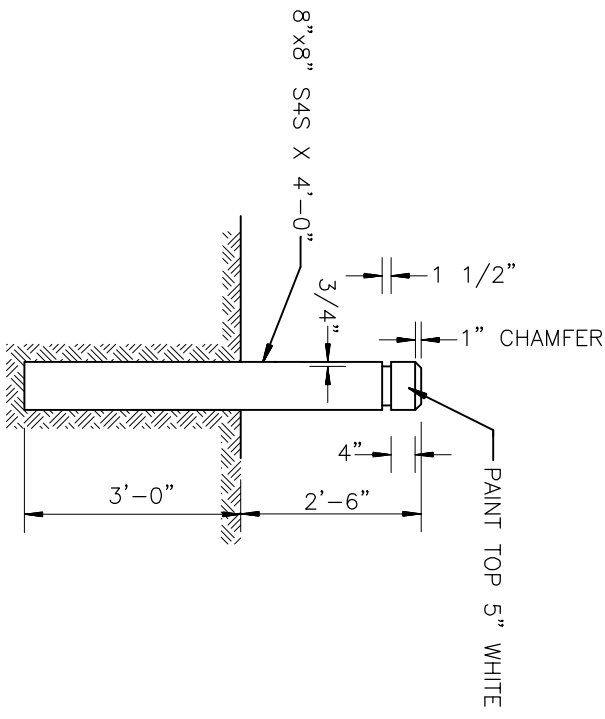
1. ALL FITTINGS TO BE BRASS OR COPPER FROM WATER MAIN TO 1" AIR & VACUUM ASSEMBLY.
2. AIR & VACUUM RELEASE VALVE ASSEMBLY MUST BE INSTALLED AT THE HIGHEST POINT OF THE LINE. IF THE HIGH POINT FALLS IN A LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, PROVIDE ADDITIONAL DEPTH OF LINE TO CREATE HIGH POINT AT A LOCATION WHERE ASSEMBLY CAN BE INSTALLED.



APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAD SPEC	

DEPARTMENT OF PUBLIC WORKS
STANDARD DETAILS
 1" COMBINATION AIR
 VALVE ASSEMBLY

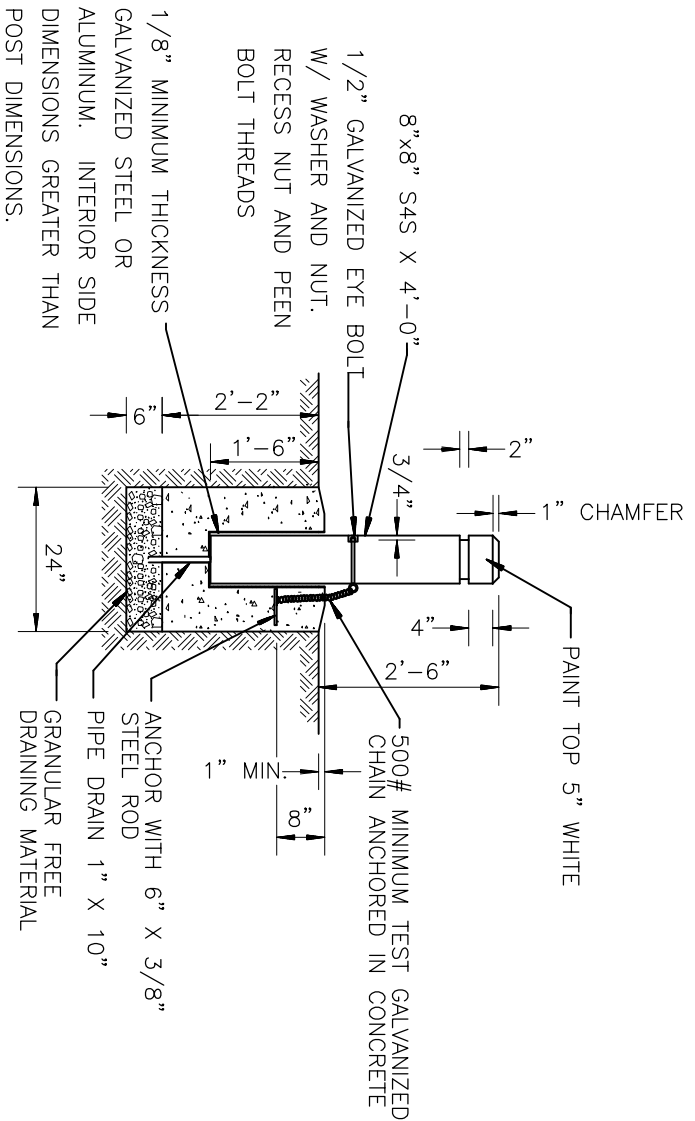
STANDARD DETAIL
 NUMBER
W-260



FIXED BOLLARD

NOTES:

1. ALL WOOD SHALL BE PRESSURE TREATED.
 2. STEEL TUBE SHALL CONFORM TO ASTM A53 OR ASTM A53 GRADE A.
 3. NUTS, BOLTS & WASHERS SHALL CONFORM TO ASTM A307.
 4. ALL STEEL PARTS SHALL BE GALVANIZED.
 5. COMMERCIAL CLASS CONCRETE SHALL BE USED.
 6. FOR ACCEPTABLE ALTERNATE BOLLARD DESIGNS, SEE WSDOT/APWA PLANS H-13 AND H-13A.
- SEE TEXT SECTION 4-11



REMOVABLE BOLLARD



SNOHOMISH COUNTY PUBLIC WORKS

4-170

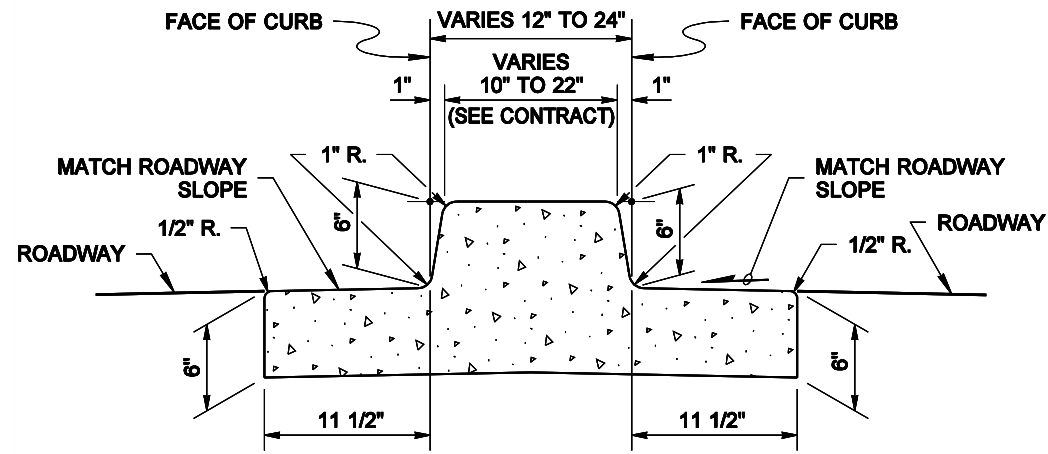
BOLLARDS

APPROVED BY:

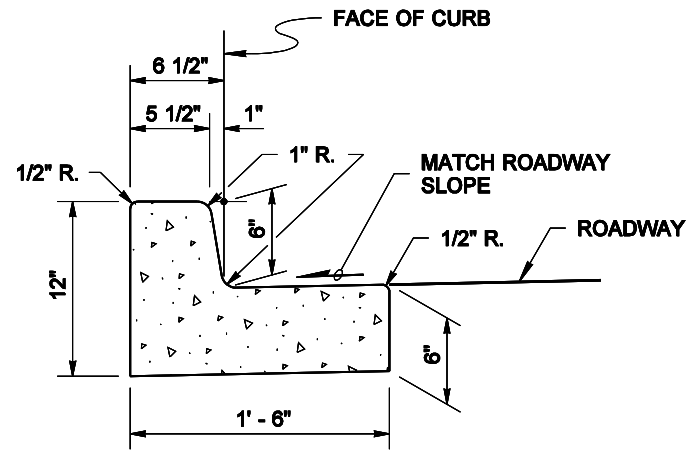
COUNTY ROAD ENGINEER

DATE

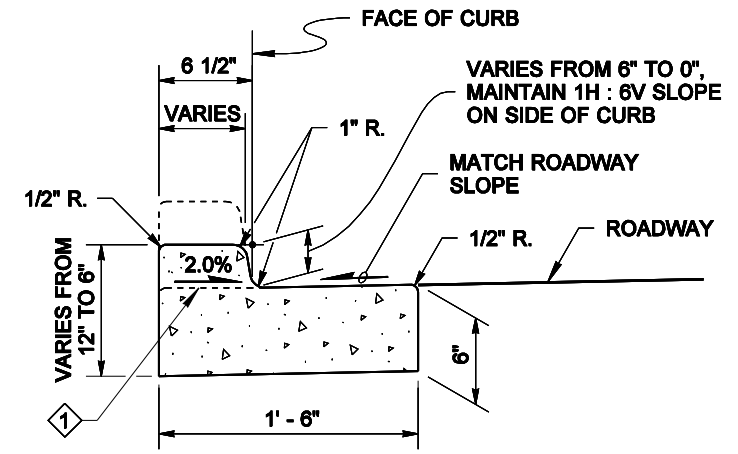
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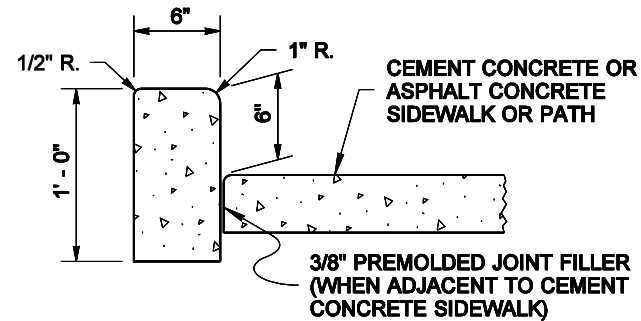
DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER



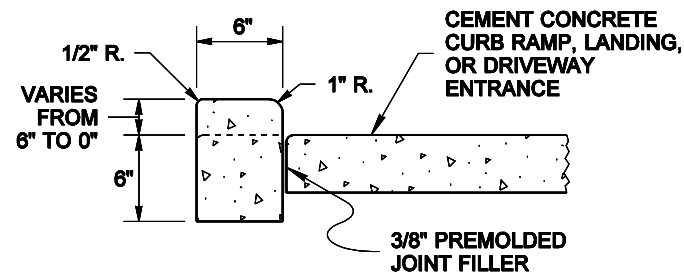
CEMENT CONCRETE TRAFFIC CURB AND GUTTER



DEPRESSED CURB SECTION AT CURB RAMPS AND DRIVEWAY ENTRANCES



CEMENT CONCRETE PEDESTRIAN CURB



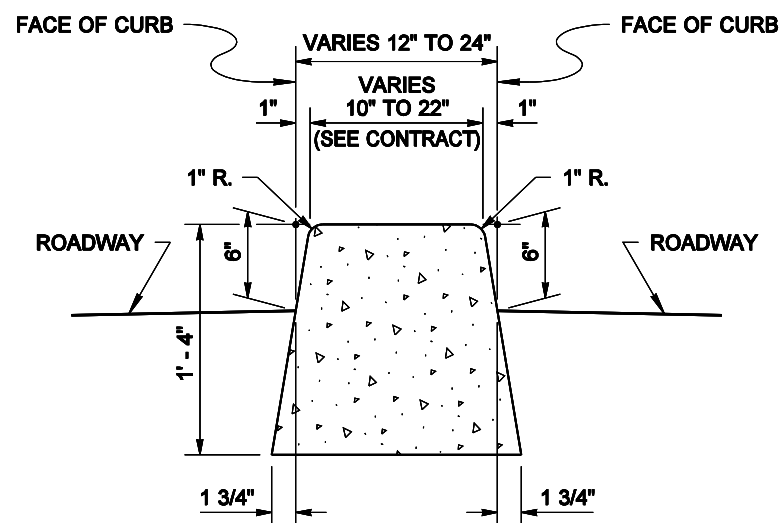
CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES

NOTE

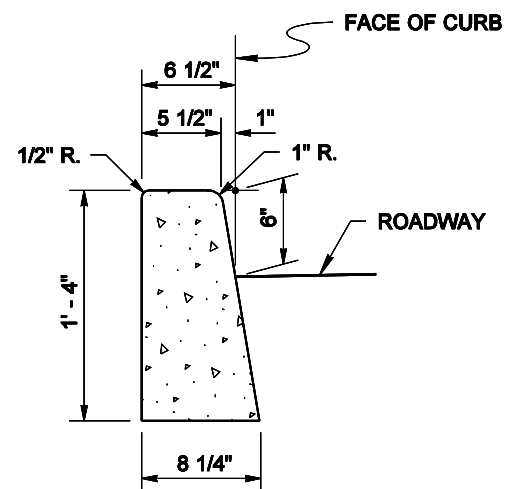
1. See **Standard Plan F-30.10** for Curb Expansion and Contraction Joint spacing.

1. FLUSH WITH GUTTER PAN AT CURB RAMP ENTRANCE ~ 1/2" VERTICAL LIP AT DRIVEWAY ENTRANCE

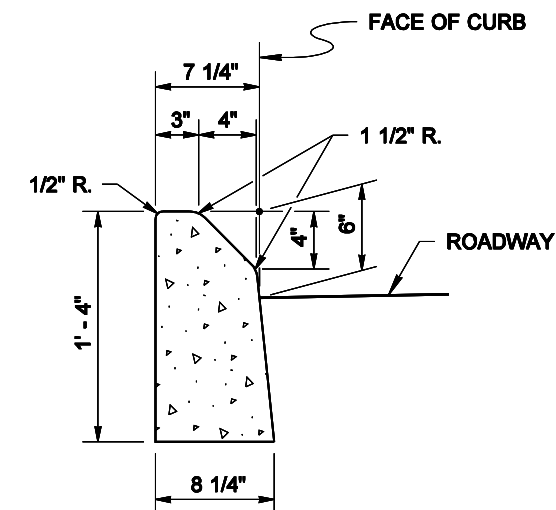
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DUAL-FACED CEMENT CONCRETE TRAFFIC CURB



CEMENT CONCRETE TRAFFIC CURB



MOUNTABLE CEMENT CONCRETE TRAFFIC CURB



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CEMENT CONCRETE CURBS

STANDARD PLAN F-10.12-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III 06-16-11

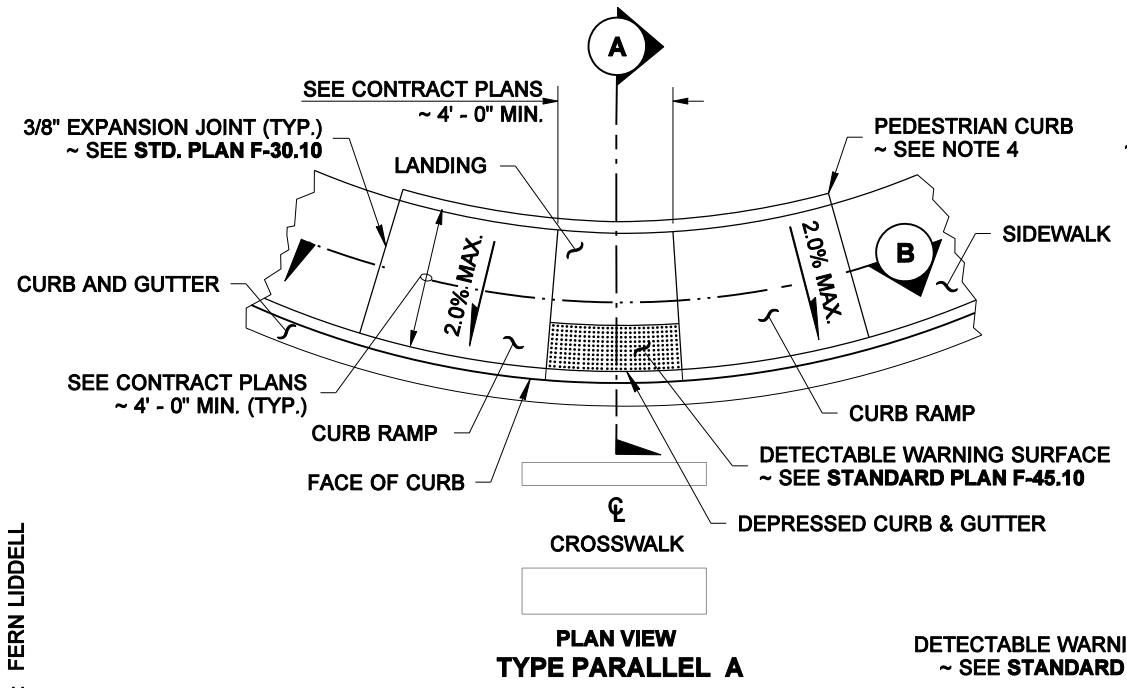
STATE DESIGN ENGINEER

DATE

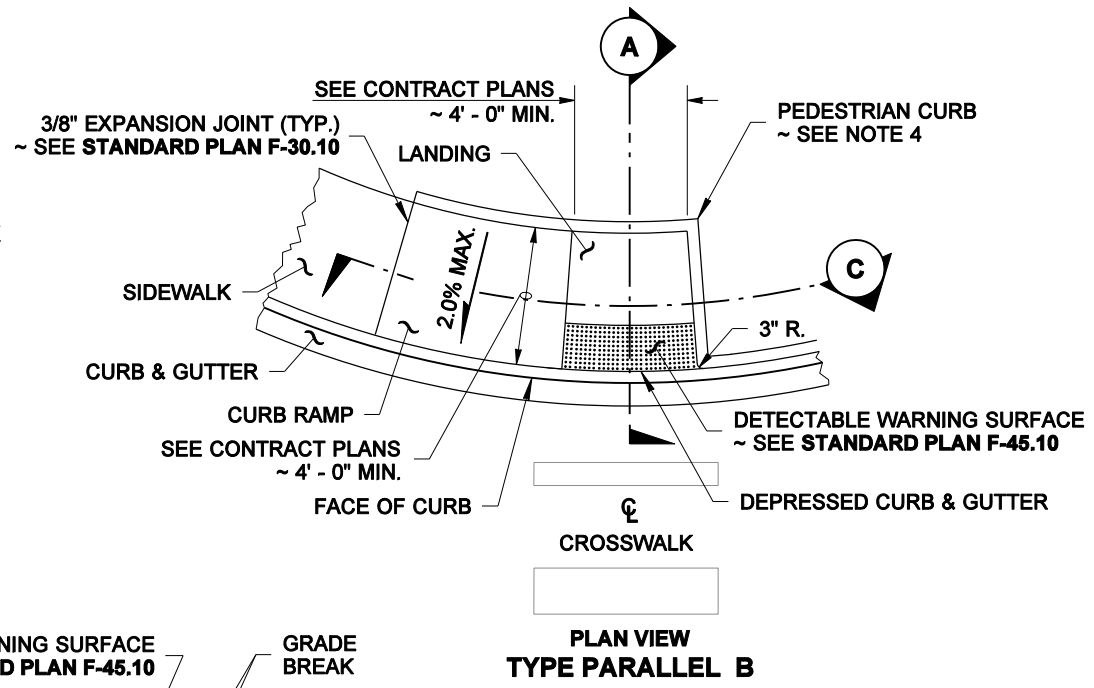


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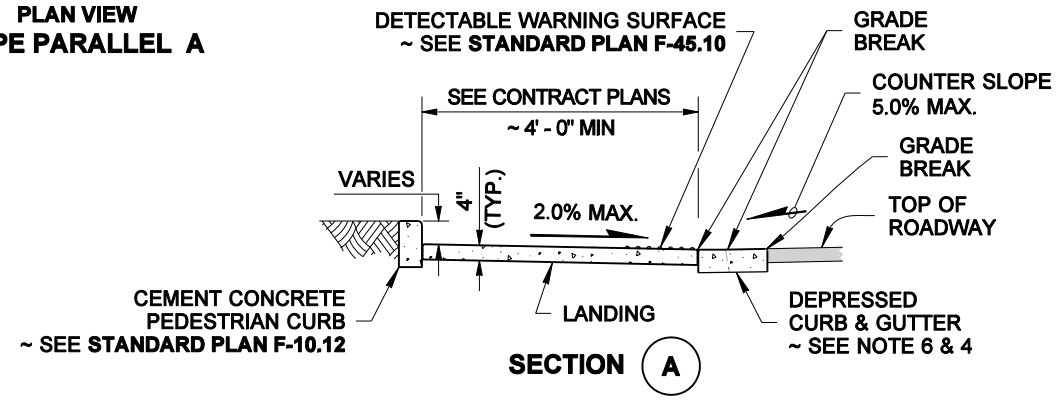
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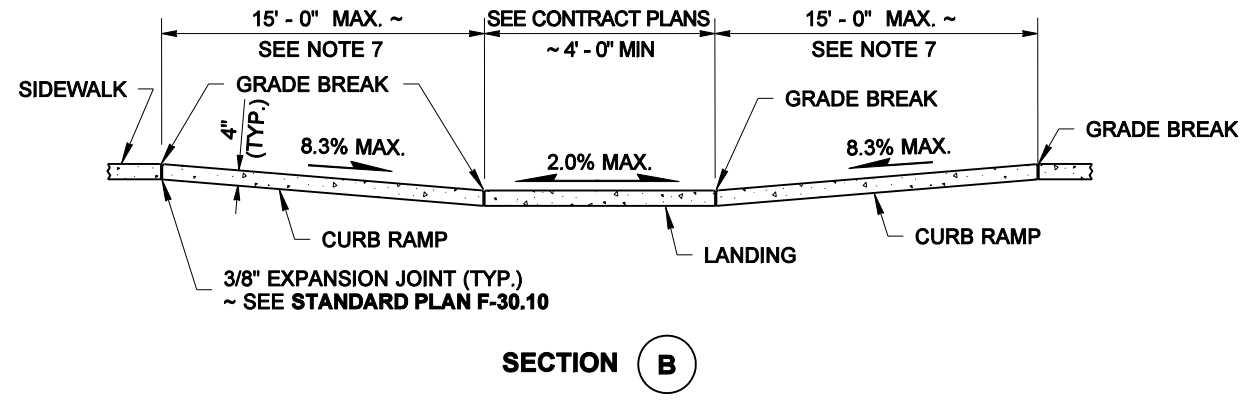
**PLAN VIEW
TYPE PARALLEL A**



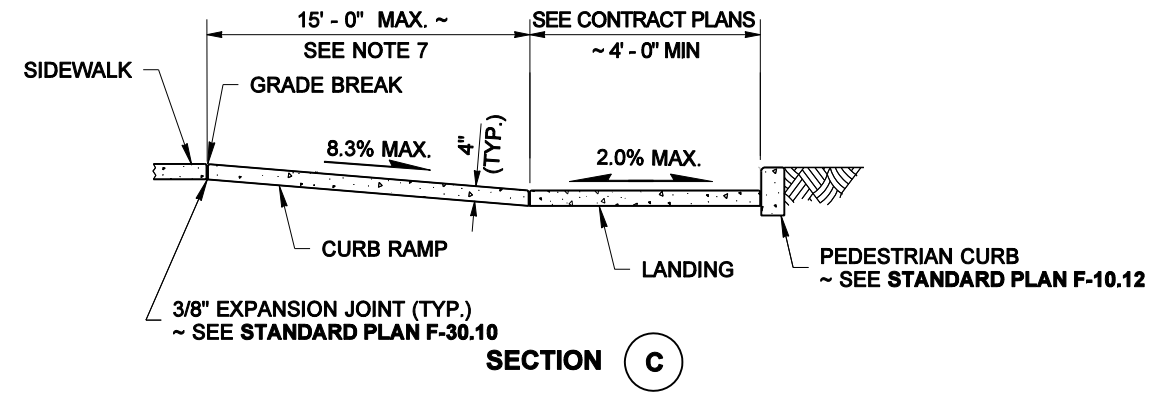
**PLAN VIEW
TYPE PARALLEL B**



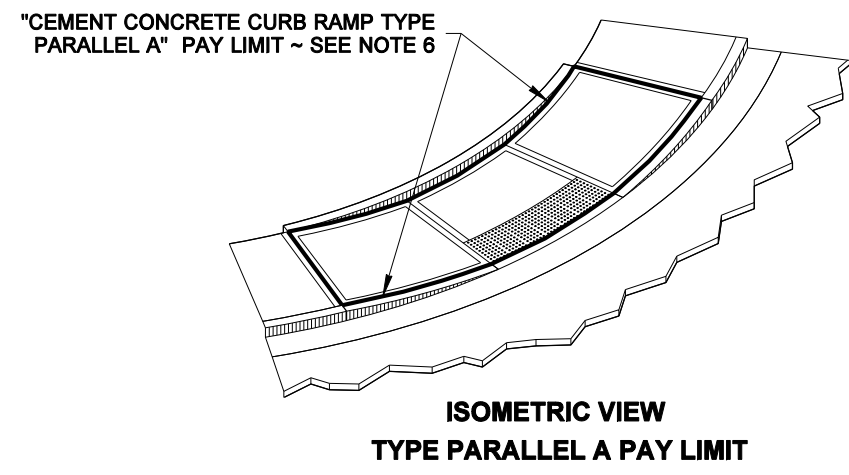
SECTION A



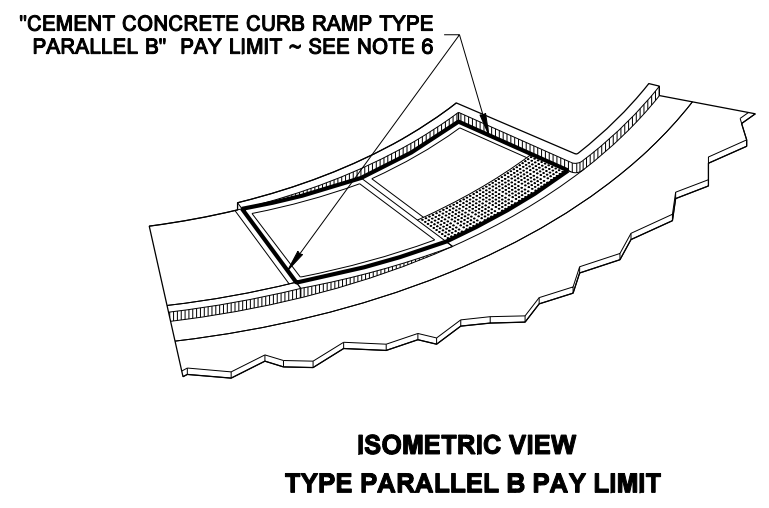
SECTION B



SECTION C



**ISOMETRIC VIEW
TYPE PARALLEL A PAY LIMIT**



**ISOMETRIC VIEW
TYPE PARALLEL B PAY LIMIT**

NOTES

1. Provide a separate curb ramp for each marked or unmarked crosswalk. Curb ramp location shall be placed within the width of the associated crosswalk, or as shown in the Contract Plans.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place gratings, junction boxes, access covers, or other appurtenances in front of the curb ramp or on any part of the curb ramp or landing.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, and Pedestrian Curb Details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Pedestrian Curb or Sidewalks.
7. The curb ramp maximum running slope shall not require the ramp length to exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep grades. When applying the 15 foot max. length, the running slope of the curb ramp shall be as flat as feasible.
8. Curb ramp, landing, & flares shall receive broom finish. See **Standard Specifications 8-14**.

LEGEND



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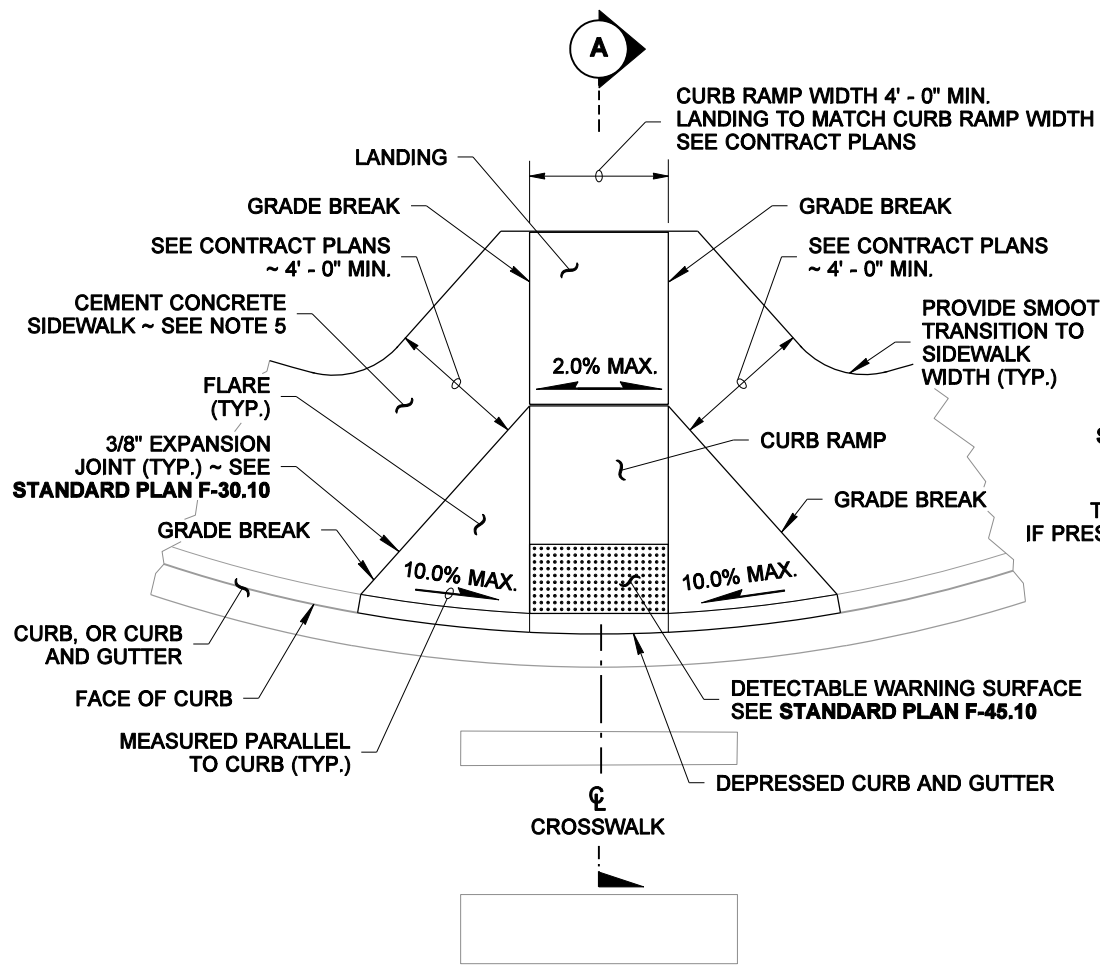
**PARALLEL
CURB RAMP
STANDARD PLAN F-40.12-01**

SHEET 1 OF 1 SHEET

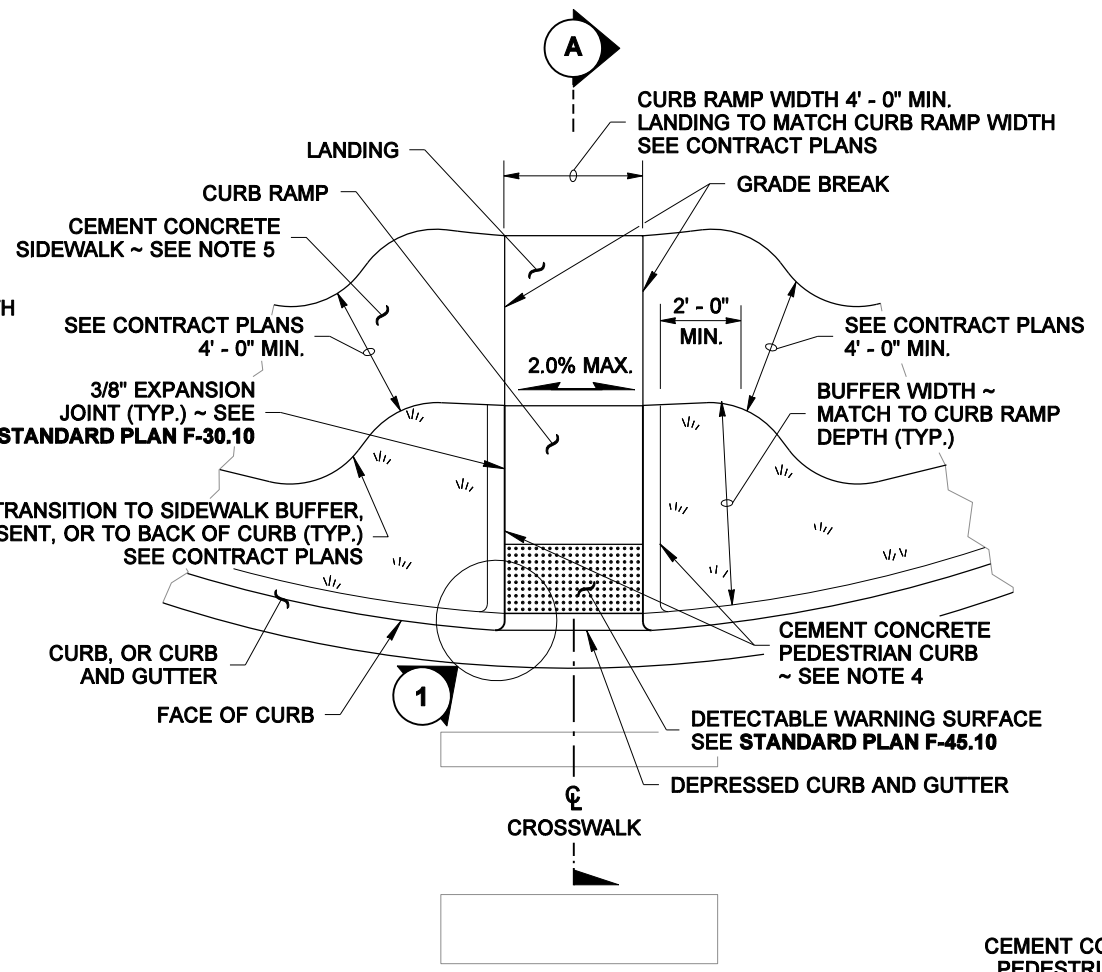
APPROVED FOR PUBLICATION

Pasco Bakotich III 06-03-10
STATE DESIGN ENGINEER DATE

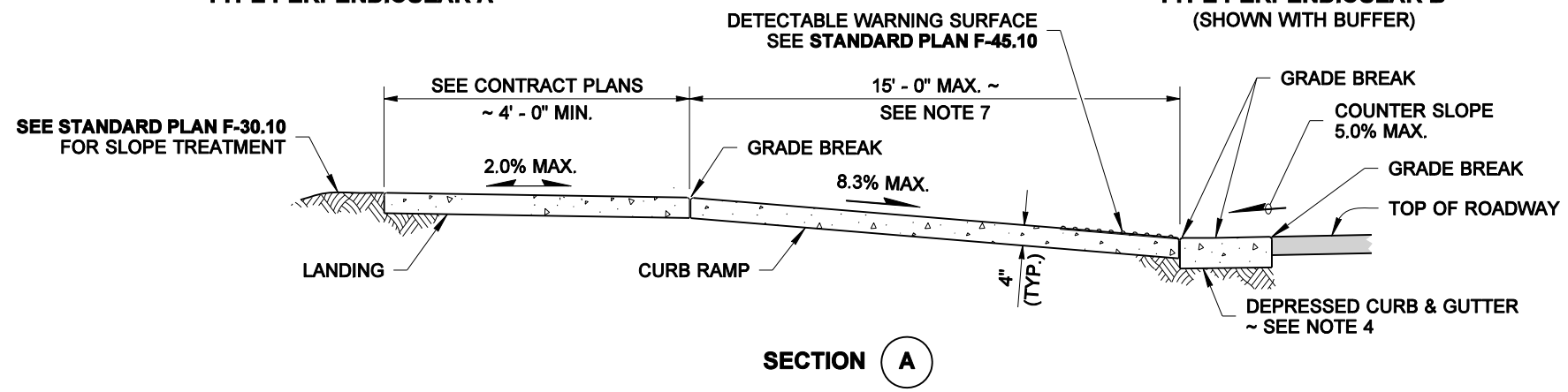
Washington State Department of Transportation



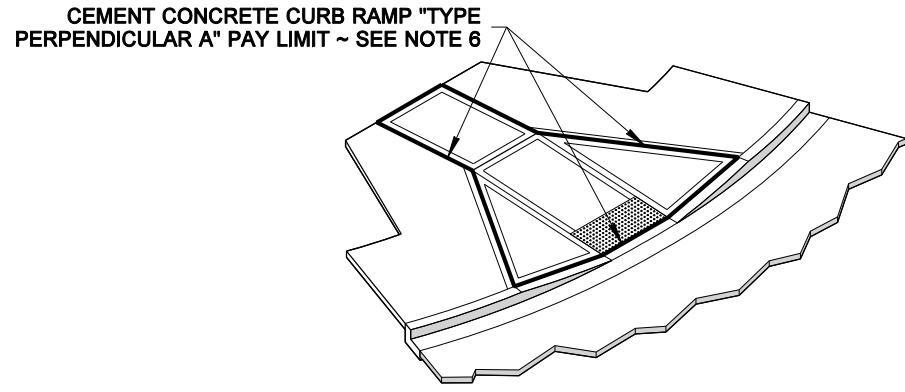
**PLAN VIEW
TYPE PERPENDICULAR A**



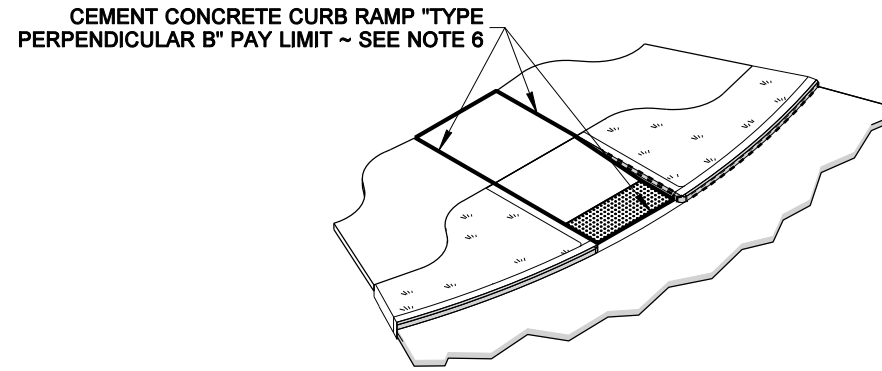
**PLAN VIEW
TYPE PERPENDICULAR B
(SHOWN WITH BUFFER)**



SECTION A



**ISOMETRIC VIEW
TYPE PERPENDICULAR A PAY LIMIT**



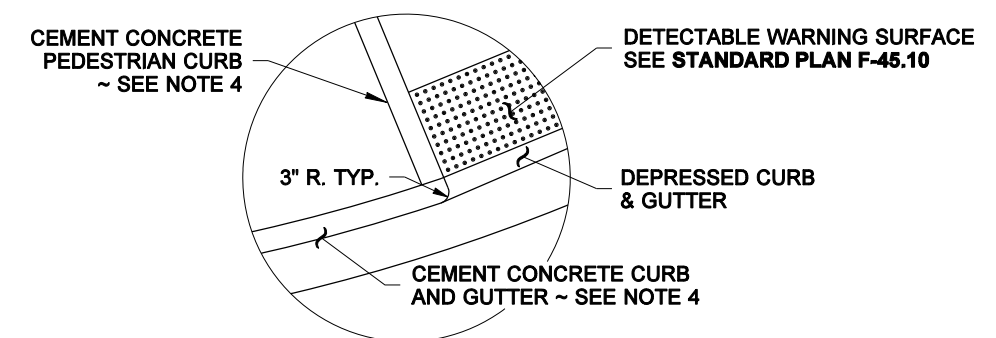
**ISOMETRIC VIEW
TYPE PERPENDICULAR B PAY LIMIT**

NOTES

1. Provide a separate curb ramp for each marked or unmarked crosswalk. Curb ramp location shall be placed within the width of the associated crosswalk, or as shown in the Contract Plans.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place gratings, junction boxes, access covers, or other appurtenances in front of the curb ramp or on any part of the curb ramp or landing.
4. See the Contract plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk details. See Contract plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Pedestrian Curb or Sidewalk.
7. The curb ramp maximum running slope shall not require the ramp length to exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep grades. When applying the 15 foot maximum length, the running slope of the curb ramp shall as flat as feasible.
8. Curb ramp, landing, & flares shall receive broom finish. See **Standard Specifications 8-14**.

LEGEND

↔ SLOPE IN EITHER DIRECTION



CURB RADIUS DETAIL 1



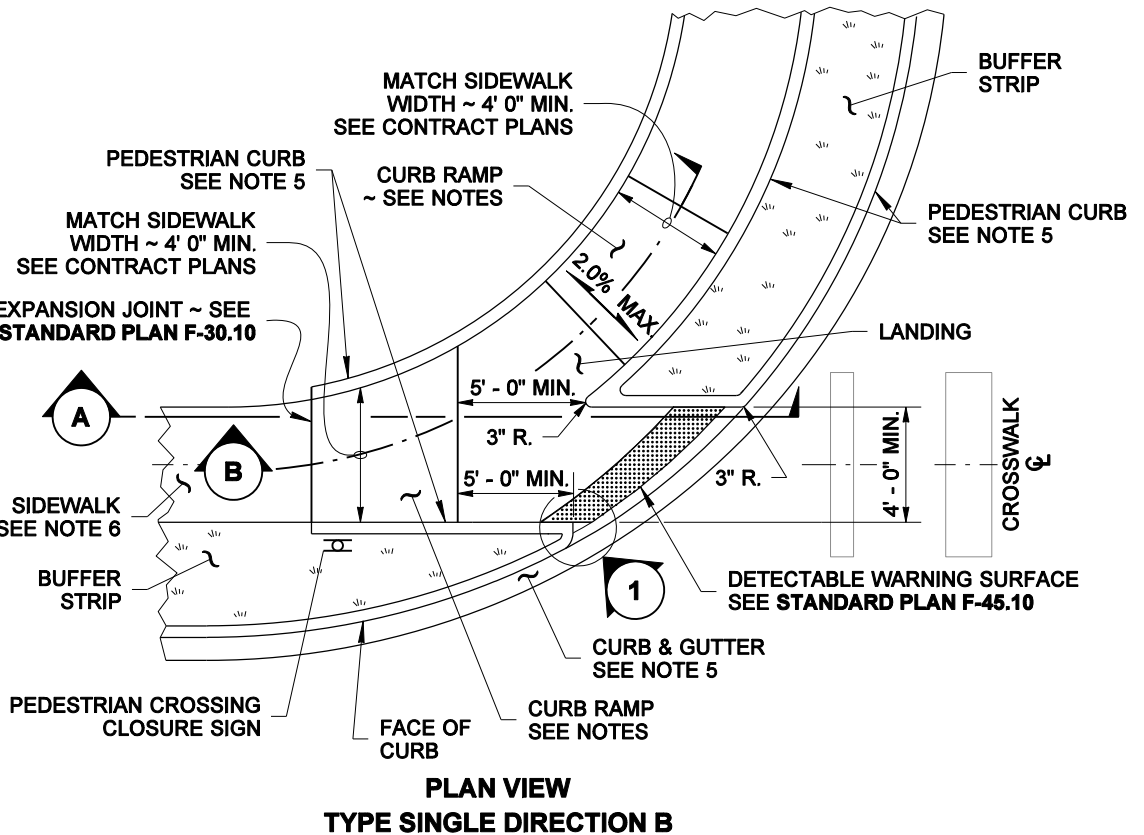
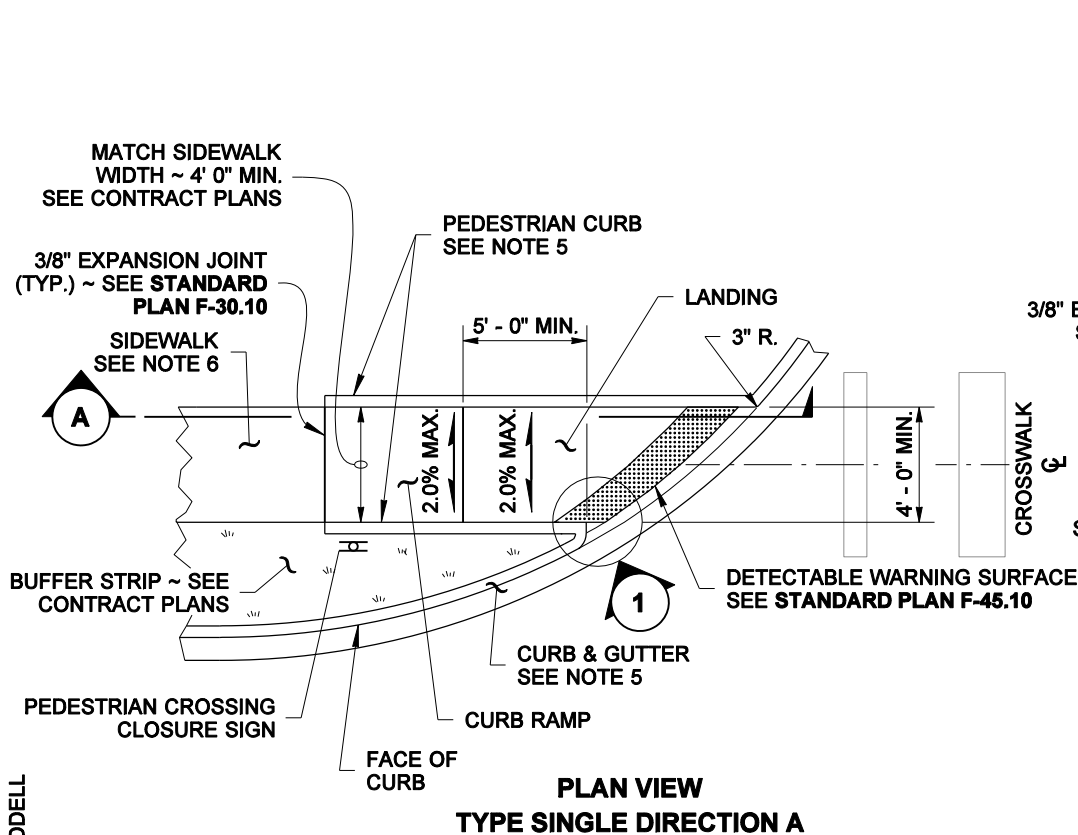
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**PERPENDICULAR
CURB RAMP
STANDARD PLAN F-40.15-01**

SHEET 1 OF 1 SHEET

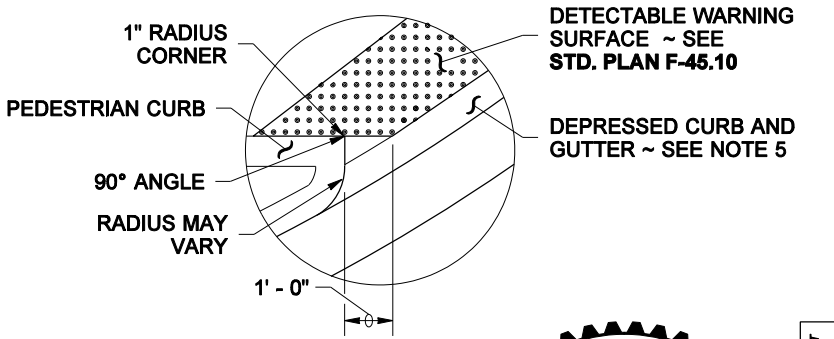
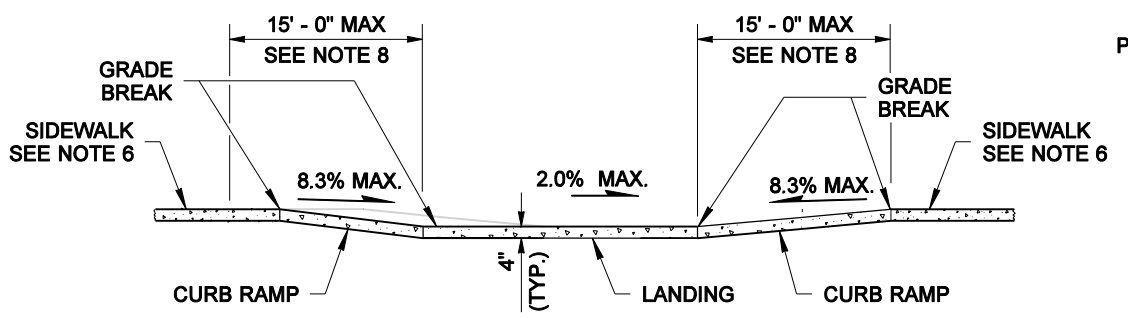
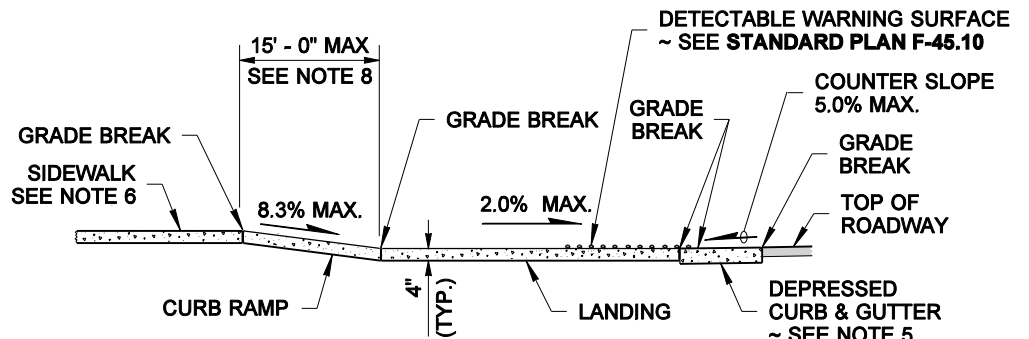
APPROVED FOR PUBLICATION
Pasco Bakotich III 06-03-10
 STATE DESIGN ENGINEER DATE
 Washington State Department of Transportation

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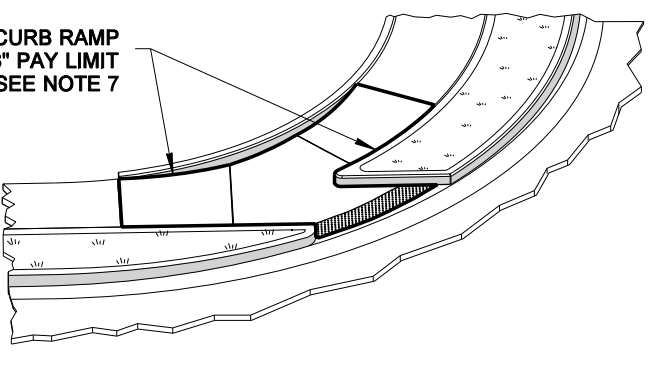
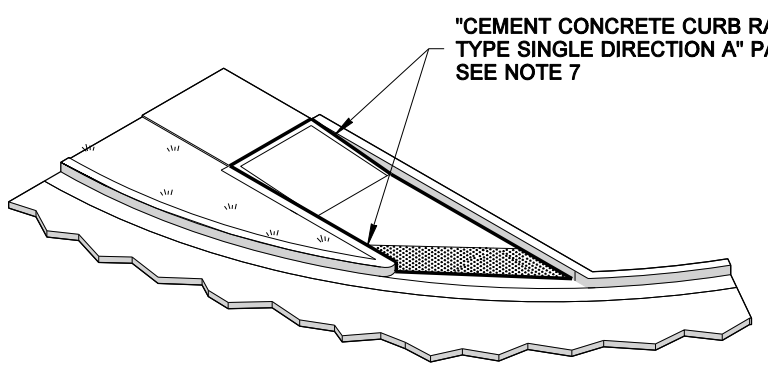
NOTES

1. This plan is to be used where pedestrian crossing in one direction is not permitted.
2. Curb ramp location shall be placed within the width of the associated crosswalk, or as shown in the Contract Plans.
3. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
4. Do not place gratings, junction boxes, access covers or other appurtenances in front of the curb ramp or on any part of the curb ramp or landing.
5. See the Contract Documents for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, and Pedestrian Curb details.
6. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See contract plans for width and placement of sidewalk.
7. The bid item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb or (Curb and Gutter), Pedestrian Curb or Sidewalk, or the pedestrian crossing closure sign.
8. The curb ramp maximum running slope shall not require the ramp length to exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep grades. When applying the 15 foot maximum length, the running slope of the curb ramp shall be as flat as feasible.
9. Curb ramps and landings shall receive broom finish. See **Standard Specifications 8-14**.



LEGEND

←→ SLOPE IN EITHER DIRECTION



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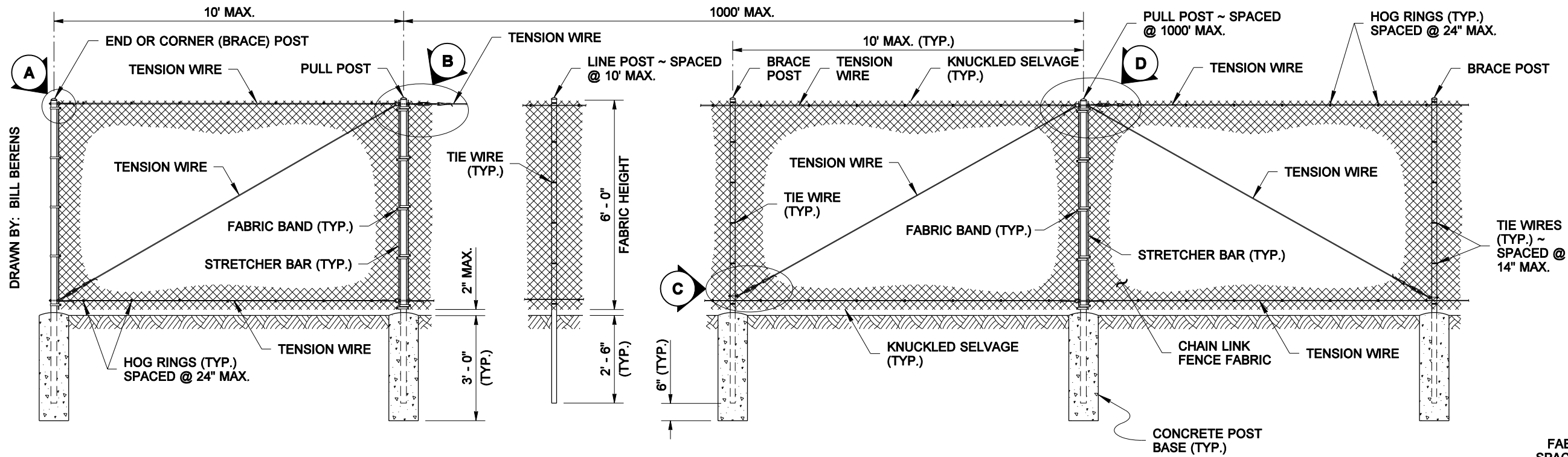
SINGLE DIRECTION CURB RAMP
STANDARD PLAN F-40.16-01

SHEET 1 OF 1 SHEET

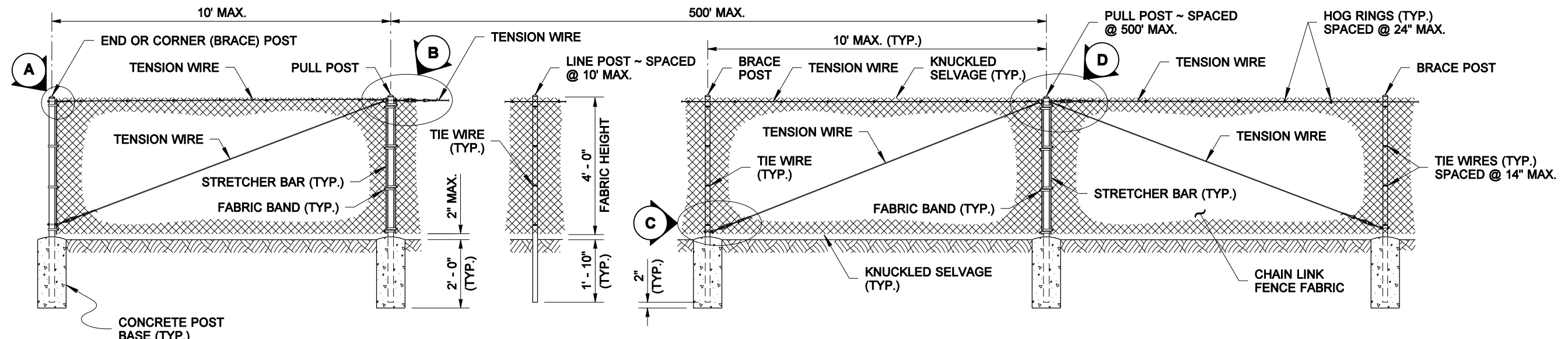
APPROVED FOR PUBLICATION

Pasco Bakotich III 06-03-10
STATE DESIGN ENGINEER DATE

Washington State Department of Transportation



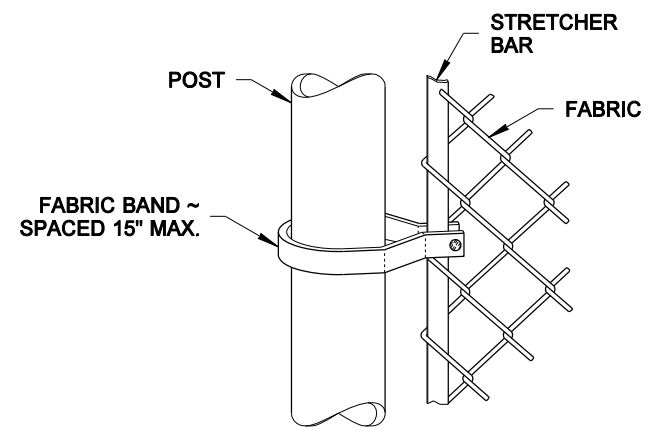
TYPE 3



TYPE 4

NOTES

1. All concrete post bases shall be 10" minimum diameter.
2. Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
3. Details are illustrative and shall not limit hardware design or post selection of any particular fence type.

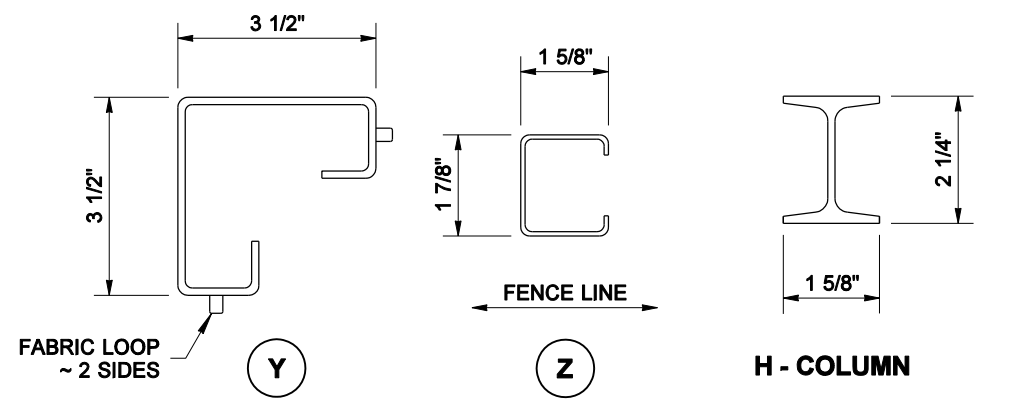


METHOD OF FASTENING STRETCHER BAR TO POST (SHOWN FOR ROUND POST)



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POST AND RAIL SPECIFICATIONS				
POST	PIPE	ROLL FORMED		H - COLUMN
	NOM. SIZE (SCH. 40) I.D.	SECTION	WEIGHT (lb/ft)	WEIGHT (lb/ft)
END, CORNER, OR PULL POST	2 1/2" DIAM.	(Y)	5.10	
LINE OR BRACE POST	2" DIAM.	(Z)	1.85	3.26



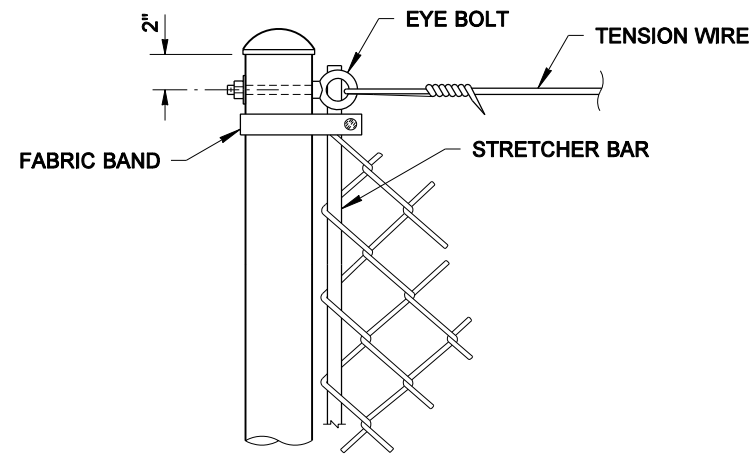
CHAIN LINK FENCE TYPES 3 AND 4
STANDARD PLAN L-20.10-01

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

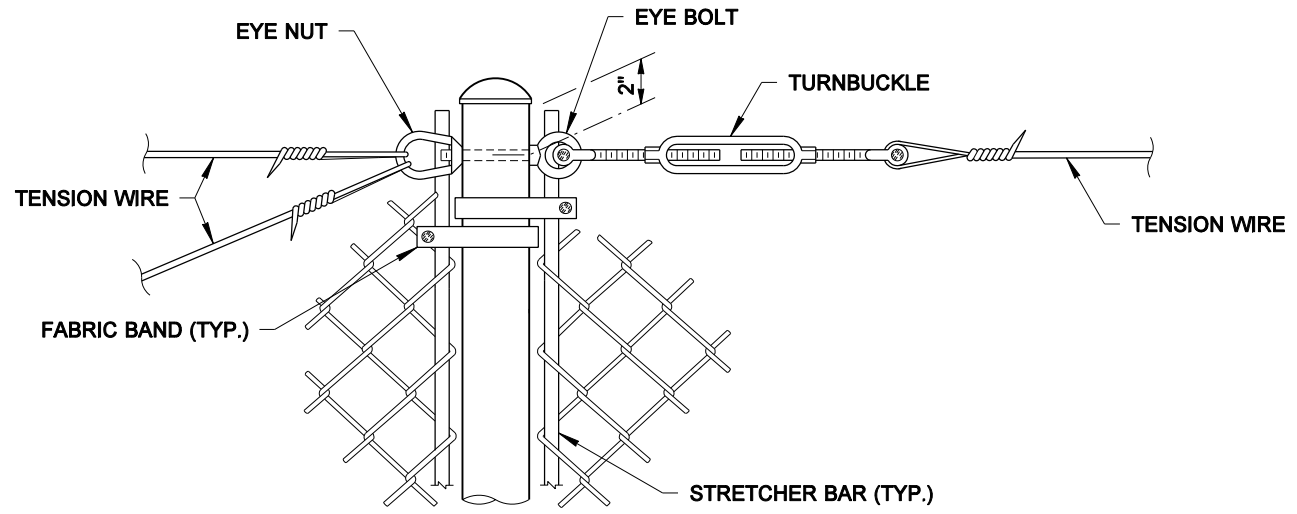
Pasco Bakotich III 06-16-11
STATE DESIGN ENGINEER DATE

Washington State Department of Transportation



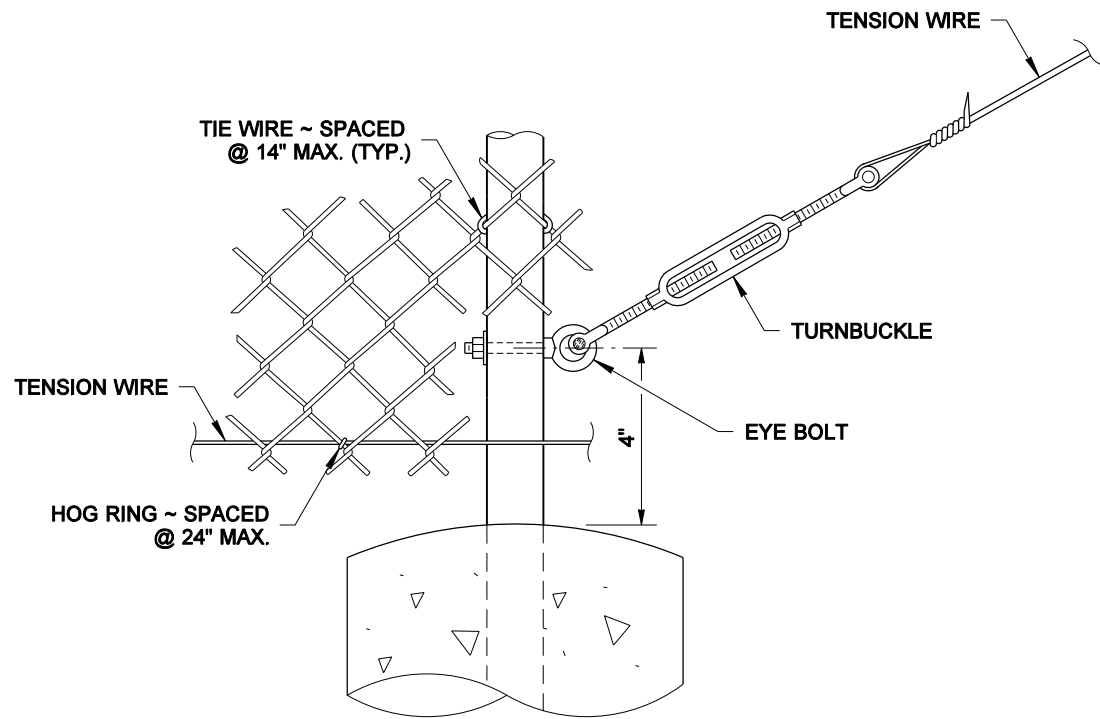
END OR CORNER (BRACE) POST

DETAIL A



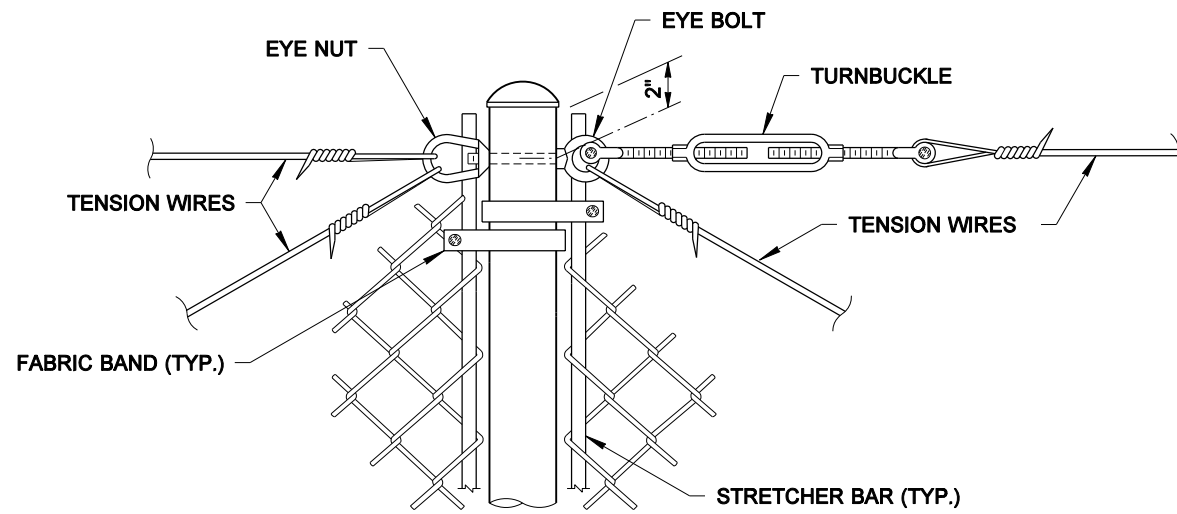
PULL POST (AT END OR CORNER)

DETAIL B



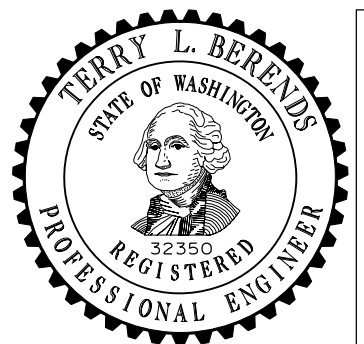
BRACE POST

DETAIL C



PULL POST (WITHIN RUN)

DETAIL D



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNLESS IT IS APPROVED AND SEALED BY THE ENGINEER AND APPROVED FOR BY THE COUNTY. THE ENGINEER HAS REVIEWED THE PLAN AND FILED AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

**CHAIN LINK FENCE
TYPES 3 AND 4
STANDARD PLAN L-20.10-01**

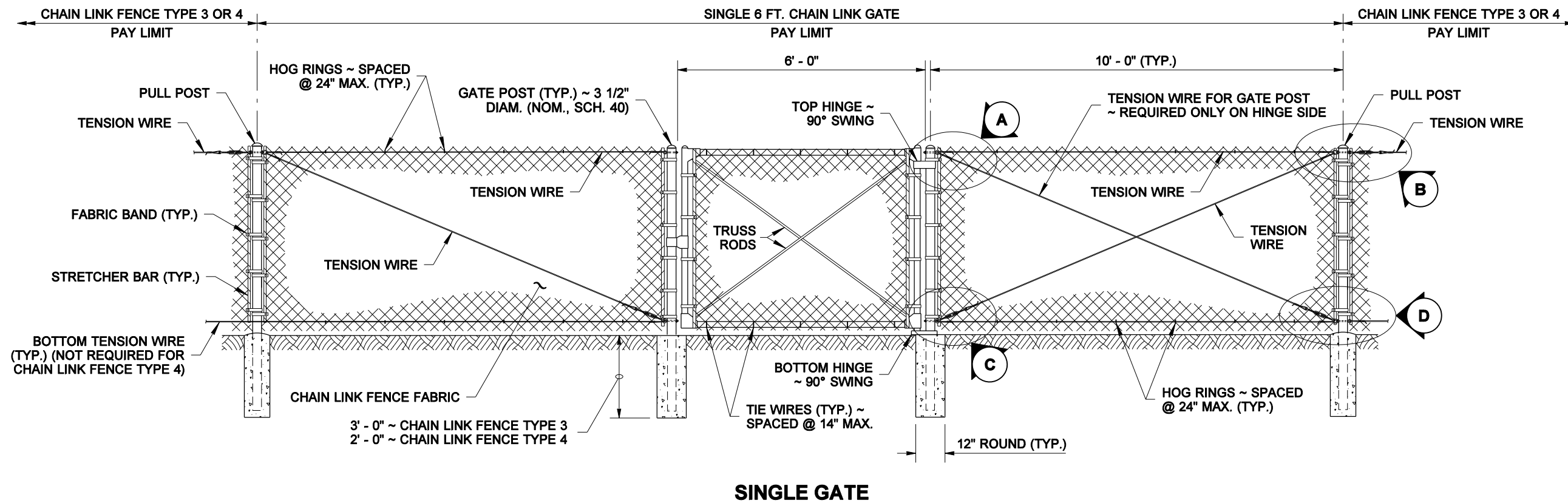
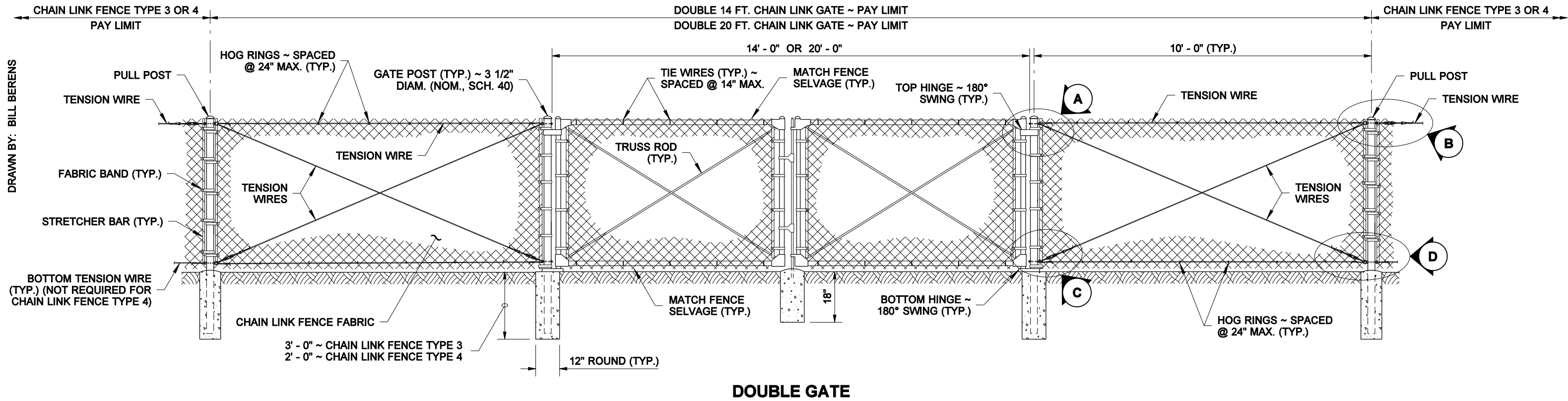
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakotich III 06-16-11

STATE DESIGN ENGINEER DATE





NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNTIL ELECTRONICALLY APPROVED BY THE ENGINEER AND APPROVED FOR OR CALLED TO BE ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

CHAIN LINK GATE

STANDARD PLAN L-30.10-01

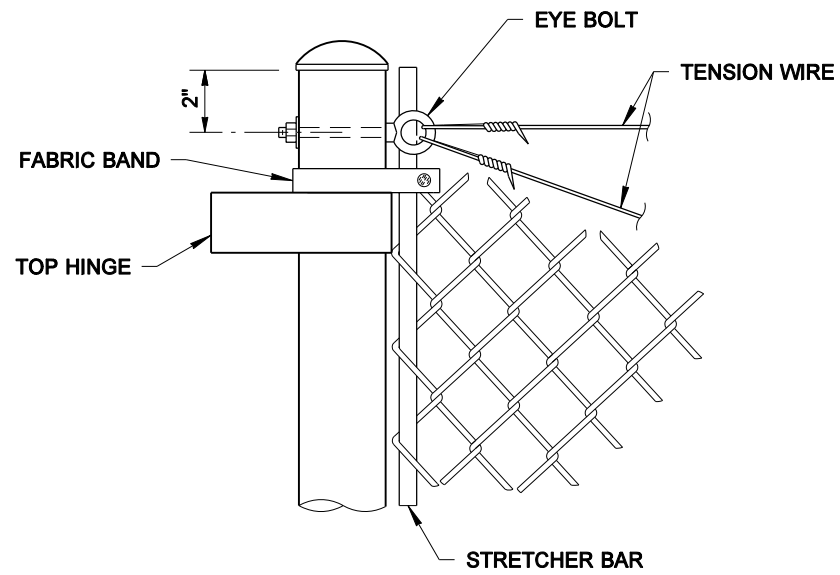
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakotich III 06-16-11
STATE DESIGN ENGINEER DATE

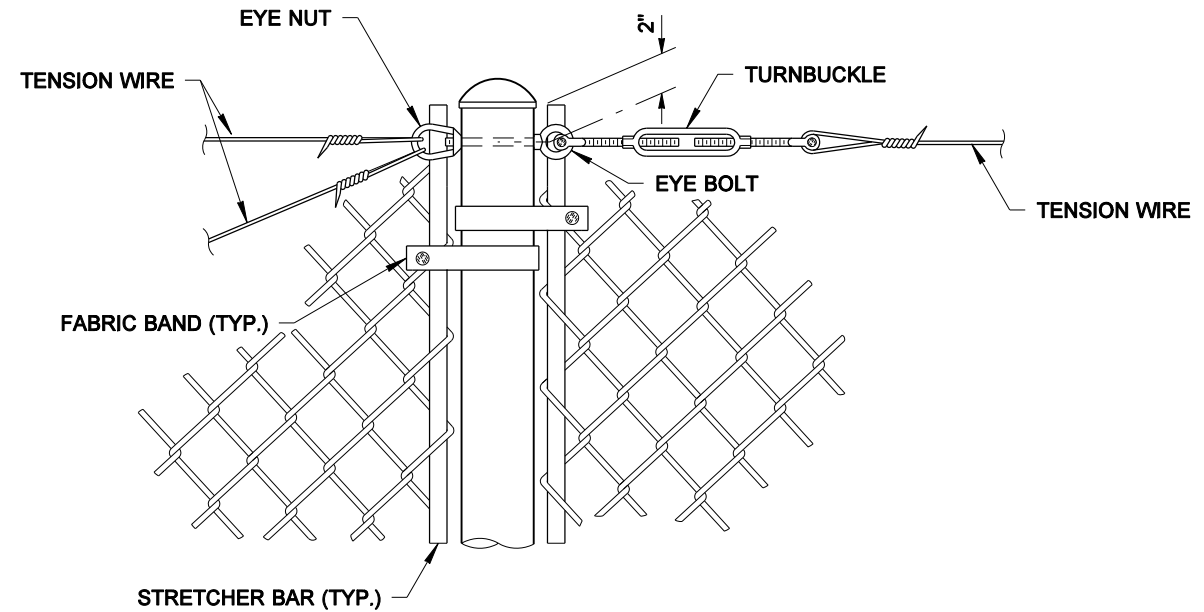
Washington State Department of Transportation

DRAWN BY: BILL BERENDS



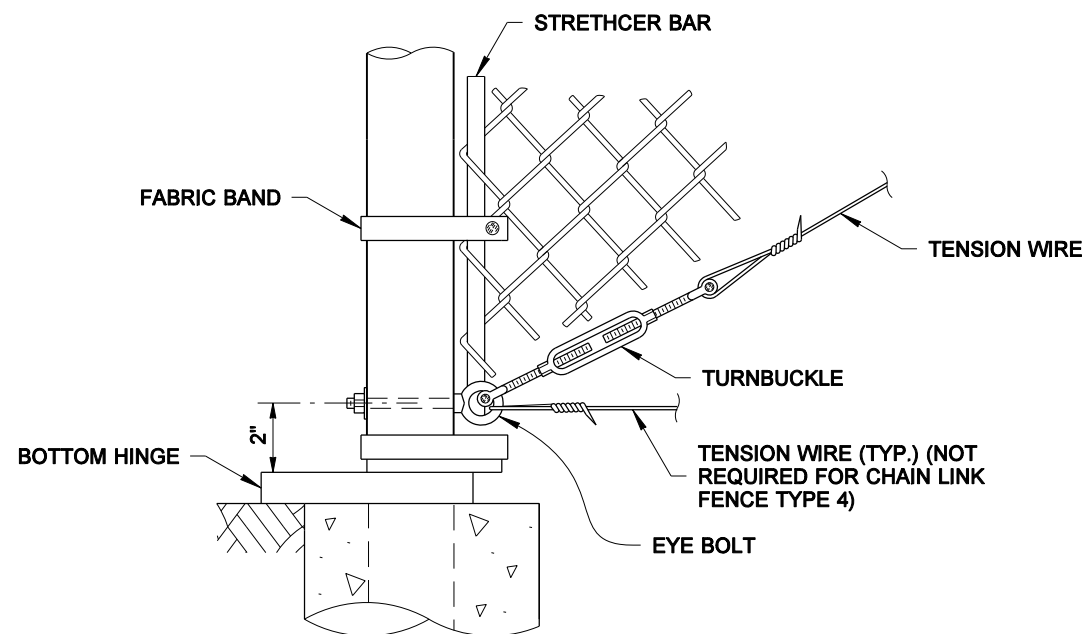
GATE POST

DETAIL A



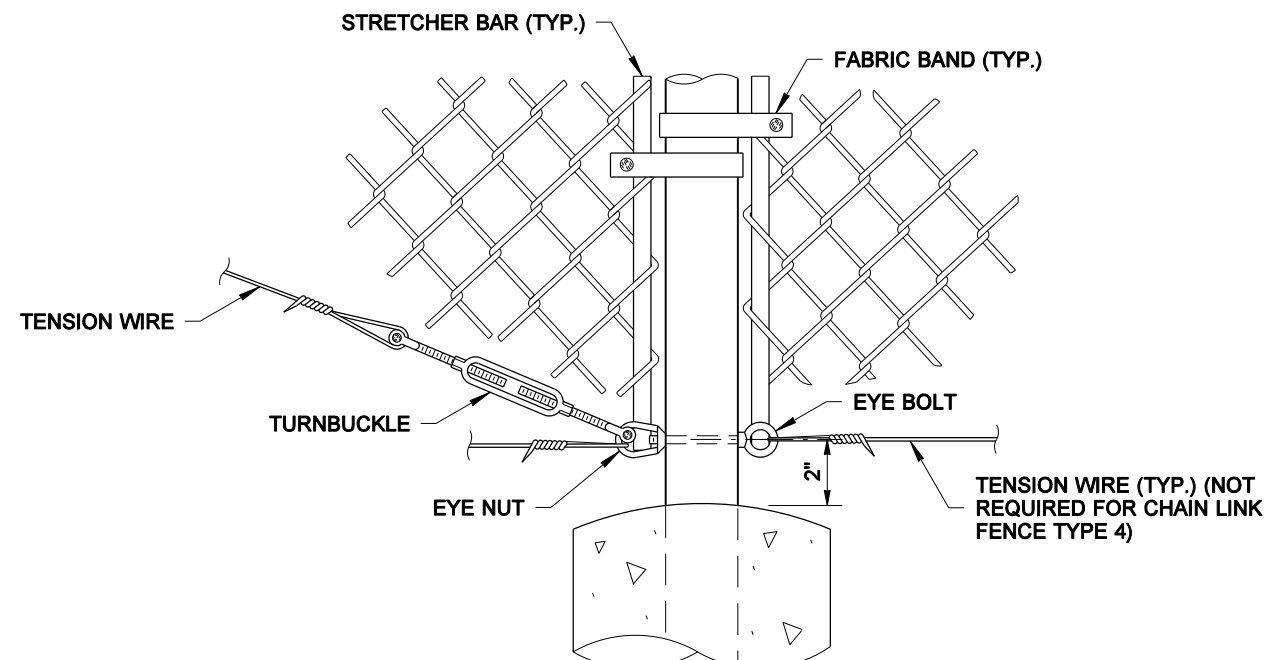
PULL POST

DETAIL B



GATE POST

DETAIL C



PULL POST

DETAIL D



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNLESS IT IS SIGNED BY THE ENGINEER AND APPROVED BY THE BOARD OF ENGINEERS. THE ENGINEER HAS REVIEWED THE DRAWING AND IS NOT PROVIDING ANY GUARANTEE OR WARRANTY. THIS PLAN IS THE PROPERTY OF TERRY L. BERENDS AND SHALL REMAIN HIS PROPERTY. A COPY MAY BE OBTAINED UPON REQUEST.

CHAIN LINK GATE

STANDARD PLAN L-30.10-01

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

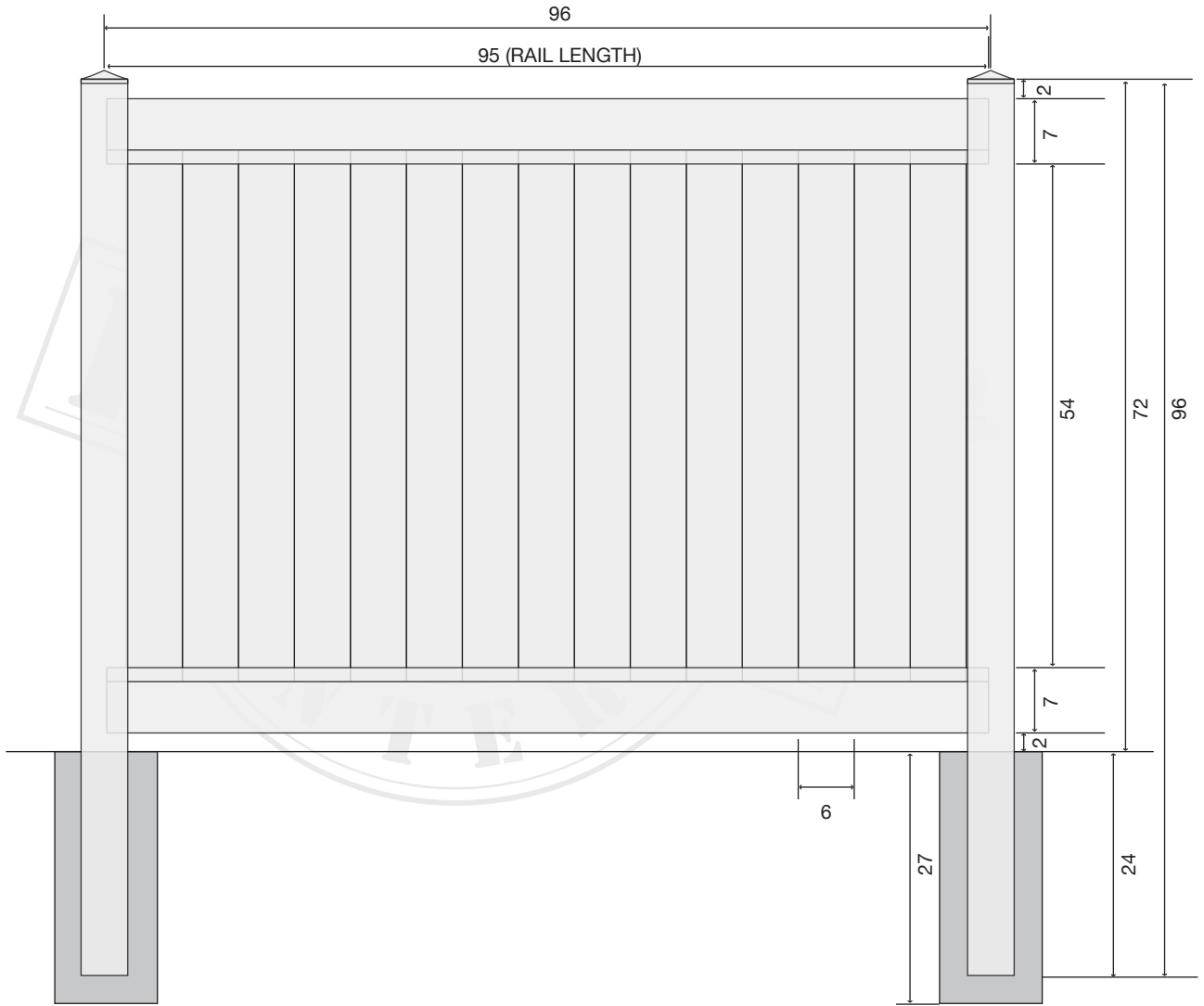
Pasco Bakotich III 06-16-11

STATE DESIGN ENGINEER DATE



Washington State Department of Transportation

Property Fence



CUSTOM OPTIONS:	
POST SIZE	5" X 5" X 96" (.150 HEAVY WALL)
RAIL SIZE - TOP	2" X 7" X 95"
RAIL SIZE - MID	-
RAIL SIZE - BOTTOM	2" X 7" X 95"
BOARD SIZE	7/8" X 6" X 56 5/8"
SPACE	0"
HEIGHT	72"
POST CAP	5" X 5" PYRAMID CAP
COLOR	<input type="checkbox"/> BALL CAP <input type="checkbox"/> GOTHIC <input type="checkbox"/> NEW ENGLAND <input checked="" type="checkbox"/> KHAKI W/MULTI-GRAIN BOARDS <input type="checkbox"/> TAN <input type="checkbox"/> TAN W/MULTI-GRAIN BOARDS

APPENDIX D

ENVIRONMENTAL PERMITS

CENWS-OD-RG

Reference Number and Name: NWS-2009-1202; City of Arlington

MEMORANDUM FOR RECORD

SUBJECT: Memorandum Documenting Nationwide Permit 18 Verification

1. **Location:** In Prairie Creek and Portage Creek and their abutting wetlands at Arlington, Washington. The project site lies in Section 11, Township 31 North, Range 5 East, and appears on the Arlington West, WA USGS quad sheet.

2. **a. Jurisdictional Determination:** An approved JD form dated May 3, 2010, is in the permit file. The JD finds the two creeks to be Relatively Permanent Waters and direct tributaries to the Stillaguamish River, whose lower reaches are navigable. The wetlands abut the two creeks.

b. Authority: Section 10 Section 404

3. **Project Description:** The City of Arlington plans to widen 67th Avenue NE, a curving north-to-northeast suburban arterial. The roadway currently has two 12-foot traffic lanes (one in each direction) and a sidewalk along its eastern (northbound) side. The City would convert the southbound lane to a center turn lane, and expanding to the west, construct a new southbound lane with gutters and a sidewalk. They would also construct a new, 1,000-foot long segment of the Centennial Trail, part of a regional pedestrian and bicycle trail system.

There are two streams with abutting wetlands in the project area. Six streambed fills are to occur (five consisting of spawning gravel and the sixth a filling in of a section of streambed to be abandoned as a portion of stream is realigned). There are to be four wetland fills, as widened and lengthened culvert pipes and new pavement are placed over riparian wetland area, totaling 60 cubic yards of fill. The following is a breakdown of the fills:

Location	Stream Volume (CY)	Wetland Volume (CY)	Stream Area (SF)	Wetland Area (SF)
A. Portage Creek, west side of 67 th	32		445	
B. Portage Creek, west side of 67 th		44		352
C. Portage Creek, east side of 67 th	5		215	
D. Portage Creek, east side of 67 th		2		86
E. Portage Creek, both ends of trail	5		37	
F. Portage Creek, west side of trail		13		46
G. Prairie Creek, west side of 67 th	62		920	
H. Prairie Creek, east side of 67 th		<u>1</u>		<u>15</u>
	104 CY	60 CY	1,617 SF	499 SF

This permit action will authorize 104 cubic yards of streambed fill in six locations over an area of 1,617 square feet (0.04 acre) and 60 cubic yards of wetland fill in four locations over an area of 499 square feet (0.01 acre).

4. Pre-construction Notification Status and Application Complete Date:

PCN required? Yes No

Additional Information Requested Date: June 22, 2011, and July 27, 2011.

PCN complete date: August 22, 2011, when applicant's agent provided updated drawings and information on the respective extents of streambed and wetland fills.

45-day limit met? Yes. Day 45 will occur on October 7, 2011.

5. Agency/Tribal Coordination: No agency coordination was required, and none was conducted.

On September 20, 2010, the applicant sent separate letters describing the work to the tribal chairs of the Tulalip Tribes, the Snoqualmie Nation, the Sauk-Suiattle Tribe and the Stillaguamish Tribe. None of the Tribes responded.

6. a. Endangered Species Act (ESA), the Magnuson-Stevens Fishery Conservation and Management Act (MSA), and National Historic Preservation Act (NHPA). For this project, the Federal Highway Administration (FHWA) is the Federal lead agency responsible for compliance with these laws.

Listed below are the species listed under the ESA that occur in the project area and FHWA's determination of effect.

- Puget Sound Chinook salmon, *may affect, not likely to adversely affect.*
- Puget Sound steelhead *may affect, not likely to adversely affect.*
- Coastal/Puget Sound bull trout, *may affect, not likely to adversely affect.*

The following documents ensure that the Federal lead agency has satisfied its requirements under the ESA, MSA and the NHPA for the proposed work.

Date of Concurrence from U.S. Fish and Wildlife Service: March 1, 2011

Date of Concurrence from the National Marine Fisheries Service: March 10, 2011

Date of EFH concurrence from National Marine Fisheries Service: March 10, 2011

Date of State Historic Preservation Office Concurrence: January 20, 2011

For the purpose of this Department of the Army verification, the Corps has determined that this project will comply with the requirements of the above laws provided the permittee complies with special conditions "a" and "b" listed in Section 8 of this document.

b. Clean Water Act, Section 401, Water Quality Certification:

Certified? Yes No Undetermined Not required

c. Coastal Zone Management Act:

CZM Concurrence? Yes No Undetermined Not required

7. Compensatory Mitigation Determination: None required due to the relatively small impact area and self-mitigating aspects of the project (e.g., streambed fill is mostly spawning gravel, and wetland impacts are attributable to placement of larger culverts that will enable fish passage).

8. Special Conditions: To ensure compliance with the ESA, the following two special conditions will become conditions of this permit:

- a. You must implement and abide by the ESA requirements and/or agreements set forth in the document entitled *Biological Assessment 67th Avenue NE Phase III Improvement Project*, dated January 2011. The U.S. Fish and Wildlife Service (USFWS) concurred with a finding of “may affect, not likely to adversely affect” based on this document on March 1, 2011 (USFWS Reference Number 13410-2011-I-0140). The National Marine Fisheries Service (NMFS) concurred with a finding of “may affect, not likely to adversely affect” based on this document on March 10, 2011 (NMFS Reference Number 2011/00325). We will inform both agencies of this permit issuance. Failure to comply with the commitments made in this document constitutes non-compliance with the ESA and your Corps permit. The USFWS and the NMFS are the appropriate authorities to determine compliance with ESA.
- b. In order to protect the listed threatened and endangered species in the project area, the permittee may conduct the authorized activities in the work window as agreed to and documented in writing through consultation by the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (Services) in any year this permit is valid. If changes to the originally authorized work window are proposed, the permittee must re-coordinate these changes with the Services and receive written concurrence on the changes. Copies of the concurrence(s) must be sent to the U.S. Army Corps of Engineers, Regulatory Branch, within 10 days of the date of the revised concurrence.

9. Determination: In the Seattle District, SOP 93-3, Categorical Exclusions, provides guidance on the use of NWP 23. As it applies to road-based transportation projects, NWP 23 authorizes proposals that meet the following criteria:

- At least partially funded by FHWA
- Documentation showing “Categorically Excluded” from further NEPA documentation by FHWA and listed in 23 CFR 771.117 (c) or (d)
- In an “Excluded Category” concurred with by HQUSACE in RGL 05-07
- Will not have, either individually or cumulatively, a significant effect on the human environment

This work is funded by FHWA.

On March 22, 2011, FHWA signed an “Environmental Classification Summary” indicating the use of categorical exclusions as the chosen method of NEPA documentation.

Two of the “Excluded Categories” in 23 CFR 771.117 are (c) 3

Construction of bicycle and pedestrian lanes, paths, and facilities. (includes sidewalks)

and (d)1

Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (e.g., parking, weaving, turning, climbing).

The categories together fully describe the project.

HQUSACE included (c) 3 and (d) 1 among the 23 CFR 771.117 categories that got its concurrence in RGL 05-07.

The work is of such a nature as to not have, either individually or cumulatively, a significant effect on the human environment. The proposed activity with proposed mitigation would result in no more than minimal individual and cumulative adverse environmental effects and would not be contrary to the public interest. This project complies with all terms and conditions of NWP 23.

Prepared by: Jack Kennedy, Regulatory Project Manager

Date

Reviewed by: Rebecca McAndrew, Senior Scientist

Date

Approved by: Alisa Ralph, Chief, Special Projects Section

Date



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

Regulatory Branch

AUG 30 2011

Eric Scott
City of Arlington, Engineering Department
238 N. Olympic Avenue
Arlington, Washington 98223

Reference: NWS-2009-1202
City of Arlington

Dear Mr. Scott:

We have reviewed your city's application to fill portions of Prairie Creek and Portage Creek and their abutting wetlands, in the process of widening 67th Avenue NE and constructing a segment of the Centennial Trail. In all, 1,617 square feet (0.04 acre) of streambed fill and 499 square feet (0.01 acre) of wetland fill is to occur with the project in Arlington, Washington. Based on the information you provided to us, Nationwide Permit (NWP) 23, *Categorical Exclusions* (Federal Register, March 12, 2007 Vol. 72, No. 47), authorizes your proposal as depicted on the enclosed drawings dated August 15, 2011. In order for this NWP authorization to be valid, you must ensure the work is performed in accordance with the enclosed *Nationwide Permit 23, Terms and Conditions* and the following special conditions:

- a. You must implement and abide by the ESA requirements and/or agreements set forth in the document entitled *Biological Assessment 67th Avenue NE Phase III Improvement Project*, dated January 2011. The U.S. Fish and Wildlife Service (USFWS) concurred with a finding of "may affect, not likely to adversely affect" based on this document on March 1, 2011 (USFWS Reference Number 13410-2011-I-0140). The National Marine Fisheries Service (NMFS) concurred with a finding of "may affect, not likely to adversely affect" based on this document on March 10, 2011 (NMFS Reference Number 2011/00325). We will inform both agencies of this permit issuance. Failure to comply with the commitments made in this document constitutes non-compliance with the ESA and your Corps permit. The USFWS and the NMFS are the appropriate authorities to determine compliance with ESA.
- b. In order to protect the listed threatened and endangered species in the project area, the permittee may conduct the authorized activities in the work window as agreed to and documented in writing through consultation by the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (Services) in any year this permit is valid. If changes to the originally authorized work window are proposed, the permittee must re-coordinate these changes with the Services

and receive written concurrence on the changes. Copies of the concurrence(s) must be sent to the U.S. Army Corps of Engineers, Regulatory Branch, within 10 days of the date of the revised concurrence.

The authorized work complies with the Washington State Department of Ecology's (Ecology) Water Quality Certification and the Coastal Zone Management Act requirements for this NWP. No further coordination with Ecology is required.

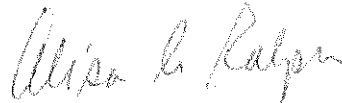
For this project, the Federal Highway Administration is the Federal lead agency responsible for compliance with Section 7 of the Endangered Species Act, the Magnuson-Stevens Fishery Conservation and Management Act, and Section 106 of the National Historic Preservation Act. For the purpose of this Department of the Army authorization, the Corps has determined that this project will comply with the requirements of the above laws provided you comply with special conditions listed above.

This verification is valid until the NWP is modified, reissued, or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked on March 18, 2012. You should remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before March 18, 2012, you will have until March 18, 2013 to complete the activity under the present terms and conditions of this NWP.

Upon completing the authorized work, please fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit* form. Thank you for your cooperation during the permit process. We are interested in your experience with our Regulatory Program and encourage you to complete a customer service survey form. This form and information about our program is available on our website at <http://www.nws.usace.army.mil/> select Regulatory, Regulatory / Permits.

We will furnish an electronic copy of this letter without enclosures to your agent, Karissa Kawamoto. If you have any questions about this letter, please contact Jack Kennedy at (206) 764-6907 or via email at jack.kennedy@usace.army.mil.

Sincerely,



Alisa A. Ralph, Chief
Special Programs Section

Enclosures



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: July 29, 2011

Control Number: 123904-1

Project Expiration Date: December 31, 2012

FPA/Public Notice #: N/A

<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
City of Arlington Project Manager ATTENTION: Eric Scott 238 N Olympic Ave Arlington, WA 98223 360-403-3512	HDR Engineering Inc ATTENTION: Karissa Kawamoto 500 108th Avenue NE Suite 1200 Bellevue, WA 98004 425-450-6249 Fax: 425-453-7107

Project Name: 67th Ave NE Phase III Improvement Project

Project Description: Improve approximately 5,000' of 67th Ave NE between 204th Street NE and Lebanon Street NE as well as connect the Centennial Trail through the City.

Project includes upgrade of 3 undersized culverts to 3 fish passable bottomless culverts.

PROVISIONS

1. **TIMING:** The project may begin IMMEDIATELY and shall be completed by OCTOBER 1, 2012.
2. **NOTIFICATION REQUIREMENT:** The Area Habitat Biologist (AHB) listed below shall receive written notification (FAX or mail) from the person to whom this Hydraulic Project Approval (HPA) is issued (permittee) or the agent/contractor no less than three working days prior to the start of construction activities. The notification shall include the permittee's name, project location, starting date for work, and the control number for this HPA.
3. **APPROVED PLANS:** Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled "67th Ave NE Phase 3 Improvement Project" and dated May 27, 2011, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.
4. The culverts shall be installed and maintained to ensure unimpeded fish passage.
5. The culverts shall be installed to maintain structural integrity to the 100-year peak flow with consideration of the debris likely to be encountered.
6. Fill associated with the culvert installation shall be protected from erosion to the 100-year peak flow.
7. The culverts shall be installed and maintained to avoid inlet scouring and to prevent erosion of stream banks downstream of the project.
8. The culvert facility shall be maintained by the owner(s) per RCW 77.57.030 to ensure continued, unimpeded fish passage. If the structure becomes a hindrance to fish passage, the owner(s) shall



Issue Date: July 29, 2011

Control Number: 123904-1

Project Expiration Date: December 31, 2012

FPA/Public Notice #: N/A

be responsible for obtaining an Hydraulic Project Approval and providing prompt repair. Financial responsibility for maintenance and repairs shall be that of the owner(s).

9. The bottomless culverts shall not exceed dimensions listed below:

- A. Prairie Creek: 81 linear feet, 14 foot 5 inch aluminum box
- B. Portage Creek, 67th Ave: 72 linear feet, 20 foot by 4 inch aluminum box culvert
- C. Portage Creek 69th Ave: 49 linear feet, 13 foot by 7 inch aluminum box culvert

10. Approach material shall be structurally stable and be composed of material that, if eroded into the stream, shall not be detrimental to fish life.

11. BYPASS INSTALLATION: A temporary bypass to divert flow around the work area shall be in place prior to initiation of other work in the wetted perimeter.

12. The permittee shall capture and safely move food fish, game fish, and other fish life from the job site. The permittee shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water downstream of the project site. The permittee may request the Washington Department of Fish and Wildlife assist in capturing and safely moving fish life from the job site to free-flowing water, and assistance may be granted if personnel are available.

13. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened by one of the following:

- a. Perforated plate: 0.094 inch (maximum opening diameter).
- b. Profile bar: 0.069 inch (maximum width opening).
- c. Woven wire: 0.087 inch (maximum opening in the narrow direction).

The minimum open area for all types of fish guards is 27%. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment of juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake.

14. WATER QUALITY: Every effort shall be taken during all phases of this project to ensure that sediment-laden water is not allowed to enter the stream. This may be accomplished by placing a series of low gravel bag dams downstream of the project. The gravel bag dams shall consist of burlap bags filled with pea gravel. The streambed and dams shall be overlain with filter fabric on the upstream side of the dams. Accumulated silt shall be removed with the filter fabric upon completion of the project and the burlap bags shall be slit to allow the pea gravel to disperse downstream. Where necessary, hand tools may be used to ensure stream flow and fish passage are not impeded by the gravel.

15. Wastewater from project activities and water removed from within the work area shall be routed to an area landward of the ordinary high water line to allow removal of fine sediment and other



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

North Puget Sound
 16018 Mill Creek Boulevard
 Mill Creek, WA 98012-1296
 (425) 775-1311

Issue Date: July 29, 2011

Control Number: 123904-1

Project Expiration Date: December 31, 2012

FPA/Public Notice #: N/A

contaminants prior to being discharged to the stream.

16. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of flood water in an approved upland disposal site.

17. If high flow conditions that may cause siltation are encountered during this project, work shall stop until the flow subsides.

18. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

19. Alteration or disturbance of the bank and bank vegetation shall be limited to that necessary to construct the project. Within seven calendar days of project completion, all disturbed areas shall be protected from erosion using vegetation or other means.

20. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), immediate notification shall be made to the Washington Military Department's Emergency Management Division at 1-800-258-5990, and to the Area Habitat Biologist listed below.

PROJECT LOCATIONS

Location #1 67th Ave NE

WORK START: July 29, 2011				WORK END: October 01, 2012			
WRIA: 05.0036		Waterbody: Portage Creek			Tributary to: South Slough		
1/4 SEC: All	Section: 11	Township: 31 N	Range: 05 E	Latitude: N 48.1809	Longitude: W 122.1404	County: Snohomish	
Location #1 Driving Directions							

Location #2 67th Ave NE, Prairie Creek

WORK START: July 29, 2011				WORK END: October 01, 2012			
WRIA: 05.0058		Waterbody: Prairie Creek			Tributary to: Portage Creek		
1/4 SEC: All	Section: 11	Township: 31 N	Range: 05 E	Latitude: N	Longitude:	County: Snohomish	
Location #2 Driving Directions							



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: July 29, 2011

Control Number: 123904-1

Project Expiration Date: December 31, 2012

FPA/Public Notice #: N/A

Location #3 Centennial trail crossing

WORK START: July 29, 2011				WORK END: October 01, 2012		
WRIA: 05.0036		Waterbody: Portage Creek		Tributary to: South Slough		
1/4 SEC: All	Section: 11	Township: 31 N	Range: 05 E	Latitude: N	Longitude:	County: Snohomish
Location #3 Driving Directions						

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued under RCW 77.55.021 are subject to additional restrictions, conditions, or revocation if the Department of Fish and Wildlife determines that changed conditions require such action. The person(s) to whom this Hydraulic Project Approval is issued has the right to appeal those decisions. Procedures for filing appeals are listed below.

Requests for any change to an unexpired HPA must be made in writing. Requests for new HPAs must be made by submitting a new complete application. Send your requests to the department by: mail to the Washington Department of Fish and Wildlife, Habitat Program, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor.

APPEALS INFORMATION

If you wish to appeal the issuance, denial, conditioning, or modification of a Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW) recommends that you first contact the department employee who



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: July 29, 2011

Control Number: 123904-1

Project Expiration Date: December 31, 2012

FPA/Public Notice #: N/A

issued or denied the HPA to discuss your concerns. Such a discussion may resolve your concerns without the need for further appeal action. If you proceed with an appeal, you may request an informal or formal appeal. WDFW encourages you to take advantage of the informal appeal process before initiating a formal appeal. The informal appeal process includes a review by department management of the HPA or denial and often resolves issues faster and with less legal complexity than the formal appeal process. If the informal appeal process does not resolve your concerns, you may advance your appeal to the formal process. You may contact the HPA Appeals Coordinator at (360) 902-2260 for more information.

A. INFORMAL APPEALS: WAC 220-110-340 is the rule describing how to request an informal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete informal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request an informal appeal of that action. You must send your request to WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. WDFW must receive your request within 30 days from the date you receive notice of the decision. If you agree, and you applied for the HPA, resolution of the appeal may be facilitated through an informal conference with the WDFW employee responsible for the decision and a supervisor. If a resolution is not reached through the informal conference, or you are not the person who applied for the HPA, the HPA Appeals Coordinator or designee will conduct an informal hearing and recommend a decision to the Director or designee. If you are not satisfied with the results of the informal appeal, you may file a request for a formal appeal.

B. FORMAL APPEALS: WAC 220-110-350 is the rule describing how to request a formal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete formal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request a formal appeal of that action. You must send your request for a formal appeal to the clerk of the Pollution Control Hearings Boards and serve a copy on WDFW within 30 days from the date you receive notice of the decision. You may serve WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, you may request a formal appeal within 30 days from the date you receive the Director's or designee's written decision in response to the informal appeal.

C. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS: If there is no timely request for an appeal, the WDFW action shall be final and unappealable.

ENFORCEMENT: Sergeant Lambert (41) P2

Habitat Biologist Jamie Bails	bailsjlb@dfw.wa.gov 425-379-2309		for Director WDFW
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CC:

APPENDIX E

WSDOT FISH EXCLUSIONS PROTOCOLS AND

STANDARDS

WSDOT Fish Exclusion Protocols and Standards

Work below the Ordinary High-Water Mark (or Mean Higher High-Water Mark) shall, in general, be conducted in isolation from flowing waters. Exceptions to this general rule or performance measure include: 1) implementation of the work area isolation and fish capture and removal protocols described in this document; 2) placement or removal of small quantities of material (e.g., wood or rock), or installation of structural best management practices (e.g., turbidity curtain), under site conditions where potential exposures and effects to fish life are minimized without isolation from flowing waters¹; 3) work conducted under a declared emergency or under emergency conditions; or, 4) work conducted where flow conditions prevent safe implementation of work area isolation and fish capture and removal protocols.

Implementation of the work area isolation and fish capture and removal protocols shall be planned and directed by a WSDOT biologist, or qualified biologist under contract to WSDOT, possessing all necessary knowledge, training, and experience (the directing biologist). If electrofishing will or may be used as a means of fish capture, the directing biologist shall have a minimum of 100 hours electrofishing experience in the field using similar equipment, and any individuals operating electrofishing equipment shall have a minimum of 40 hours electrofishing experience under direct supervision. All individuals participating in fish capture and removal operations shall have the training, knowledge, skills, and ability to ensure safe handling of fish, and to ensure the safety of staff conducting the operations.

The directing biologist shall work with Maintenance, Construction, and/or Environmental staff (as appropriate) to plan the staging and sequence for work area isolation, fish capture and removal, and dewatering. This plan should consider the size and channel characteristics of the area to be isolated, the method(s) of dewatering (e.g., diversion with bypass flume or culvert; diversion with sandbag, sheet pile or similar cofferdam; etc.), and what sequence of activities will provide the best conditions for safe capture and removal of fish. Where the area to be isolated is small, depths are shallow, and conditions are conducive to fish capture, it may be possible to isolate the work area and remove all fish life prior to dewatering or flow diversion. Where the area to be isolated is large, depths are not shallow, where flow volumes or velocities are high, and/or conditions are not conducive to easy fish capture, it may be necessary to commence with dewatering or flow diversion staged in conjunction with fish capture and removal. The directing biologist shall use his/her best professional judgment in deciding what sequence of activities is likely to minimize exposure of fish to conditions causing stress or injury

¹ WSDOT shall make this determination with consultation or input from the regulatory agencies with jurisdiction, including the Washington State Department of Fish and Wildlife (WDFW), U.S. Fish and Wildlife Service (FWS), and NOAA-National Marine Fisheries Service (NMFS) as appropriate; also, this exception shall not permit work that requires in-water excavation or that presents a risk of increased turbidity beyond the immediate work area or for a duration of more than 15 minutes.

(including stranding, exposure to extremes of temperature or reduced dissolved oxygen, risk of injury resulting from electrofishing, etc.).

The directing biologist shall plan work area isolation, fish capture and removal, and dewatering with consideration for the following: habitat connectivity and fish habitat requirements; the duration and extent of planned in-water work; anticipated flow and temperature conditions over the duration of planned in-water work; and, the risk of exposure to turbidity or other unfavorable conditions during construction. If the area to be isolated includes only a portion of the wetted channel width (e.g., large or deep rivers where diversion from the entirety of the wetted channel is difficult or impossible), or if the bypass flume or culvert will effectively maintain connectivity and fish passage for the duration of construction activities, it may be less important whether fish are herded (and/or captured and released) upstream or downstream of the isolated work area. However, if the area to be isolated includes the entire wetted channel width, and especially if conditions make it unlikely that connectivity (i.e., upstream/ downstream fish passage) can be effectively maintained for the duration of construction activities, then the directing biologist should carefully consider whether to herd fish (and/or capture and release fish) upstream or downstream of the isolated work area.

If conditions upstream of the isolated work area will or may become unfavorable during construction, then fish should not be herded or released to an upstream location; this situation is probably most common where the waterbody in question is small, where seasonal flows are substantially diminished, and conditions of elevated temperature and/or reduced dissolved oxygen are foreseeable. However, the directing biologist shall also consider whether planned in-water work presents a significant risk of downstream turbidity and sedimentation; fish herded or released to a downstream location may be exposed to these conditions.

If large numbers of fish are to be herded (and/or captured and released), and in order to avoid overcrowding or concentrating fish in areas where their habitat needs cannot be met, it may be appropriate to relocate fish both upstream and downstream of the isolated work area. At locations where habitat connectivity or quality is poor, including along reaches upstream and/or downstream of the isolated work area, the directing biologist should carefully consider whether relocated fish can meet their minimum habitat requirements for the duration of planned in-water work. On rare occasions it may be appropriate to relocate fish at a greater distance upstream and/or downstream (e.g., thousands of feet or miles), so as to ensure fish are not concentrated in areas where their habitat needs cannot be met, or where they may be exposed to unfavorable conditions during construction. On those rare occasions where relocation to a greater distance is deemed necessary, the WSDOT shall provide notice to the agencies with jurisdiction in advance of the operations.

Plans for staging work area isolation, fish capture and removal, and dewatering must comply with WSDOT safety requirements. Safe implementation is a high priority. The directing biologist shall design and adjust the plan as necessary to ensure the safety of all individuals implementing the plan. Under some conditions it may be appropriate to

conduct work without isolation from flowing waters, without placement of block nets, fish capture or removal; for a fuller discussion of this topic see page 1.

In order to comply with WSDOT safety requirements, work in or around water outside of daylight hours is not generally permissible. If, under unusual circumstances, the directing biologist identifies work that will or may be necessary outside of daylight hours, he/she shall coordinate and gain approval for this work with appropriate managers (including the WSDOT safety officer and/or supervisors with authority).

Work Area Isolation

The directing biologist shall determine appropriate locations for the placement of block nets, based on site characteristics and a consideration of the type and extent of planned in-water work. Sites that exhibit reduced flow volume or velocity, uniformity of depth, and good accessibility are preferred; sites with heavy vegetation, large cobble or boulders, undercut banks, deep pools, etc. should be avoided due to the difficulty of securing and/or maintaining nets. Sites with a narrow channel cross-section (“constriction”) should be avoided if foreseeable flow conditions might overwhelm or dislodge the block nets, posts, or anchors.

Except when planning and intending to herd fish upstream, an upstream block net shall be placed first. With a block net secured to prevent movement of fish into the work area from upstream, a second block net should be used as a seine to herd fish in a downstream direction. Where the area to be isolated includes a culvert(s), deep pools, undercut banks, or other cover attractive to fish (e.g., thick overhanging vegetation, rootwads, logjams, etc.) it may be appropriate to isolate a portion or portions of the work area, rather than attempting to herd fish from the entirety of the work area in a single downstream pass. Fish capture and removal will be most successful if an effort is made to strategically focus and concentrate fish in areas where they can be easily seined and netted. Care shall be taken not to concentrate fish where they are exposed to sources of stress, or to leave them concentrated in such areas for a long duration (e.g., more than 30 minutes).

Depending upon site characteristics, and the planned staging and sequence for work area isolation and dewatering, it may or may not be necessary to place a downstream block net. Typically, however, site characteristics and/or the duration of planned in-water work will necessitate placement of a net(s) to prevent movement of fish into the work area from downstream. If groundwater seepage or site drainage has a tendency to re-wet the area, if the area to be isolated is low-gradient or subject to a backwatering influence, or if the area to be isolated is large and considerable effort will be expended in capturing and removing fish life, a downstream block net should be placed. If foreseeable flow conditions over the duration of planned in-water work might enable fish to re-enter the work area from downstream, a downstream block net should be placed.

In most instances where gradual dewatering or flow diversion is staged in conjunction with fish capture and removal, it is appropriate to delay installation of the downstream block net(s) until after fish have been given sufficient time to move downstream by their

own choosing. If flows are reduced gradually over the course of several hours, or the length of an entire workday, some (perhaps many) fish will make volitional movements downstream beyond the area to be isolated. Gradual dewatering can be an effective means by which to reduce the risk of fish stress or injury. Gradual dewatering and the encouragement of volitional movement are particularly important where the area to be isolated is large and may hold many fish. However, where the area to be isolated includes a culvert(s), deep pools, undercut banks, or other cover attractive to fish, some (perhaps many) fish will not choose to move downstream regardless of how gradually flows are reduced. The directing biologist should use his/her best professional judgment in deciding what sequence of activities is likely to minimize fish stress or injury (including stranding).

Where the area to be isolated is small, depths are shallow, and conditions are conducive to fish capture, it may be possible to remove all fish life prior to dewatering, or to implement plans for dewatering staged with fish capture over a relatively short timeframe (e.g., 1-2 hours). Where the area to be isolated is large, depths are not shallow, where flow volumes or velocities are high, and/or conditions are not conducive to easy fish capture, dewatering or flow diversion should be staged in conjunction with fish capture and removal over a longer timeframe (e.g., 3-6 hours). The largest areas and/or most difficult site conditions may warrant or require that plans for dewatering and fish capture proceed over the length of an entire workday, or multiple workdays. Where this is the case, fish shall be given sufficient time and a means to move downstream by their own choosing so as to reduce the total number of fish exposed to sources of stress and injury (including fish handling).

The directing biologist shall select suitable block nets. Type of material, length, and depth may vary based on site conditions. It may be necessary and appropriate to contact other WSDOT Regions or offices with access to nets (or other materials) suitable for placement under unique or unusual circumstances. Typically block nets will be composed of 9.5 millimeter stretched nylon mesh and should be installed at an angle to the direction of flow (i.e., not directly perpendicular to flow) so as to reduce the risk of impinging fish. Anchor bags filled (or half-filled) with clean, washed gravel are preferred over sandbags, especially for nets and anchors that will or may remain in-place for a long duration (i.e., more than two weeks). Any use or movement of native substrates or other materials found on-site should be incidental and shall not appreciably affect channel bed or bank conditions.

Block nets shall remain in-place until work is complete and conditions are suitable for the reintroduction of fish². Block nets require frequent inspection and debris removal. A

² If plans for work area isolation and fish capture and removal include the installation of temporary cofferdams, and once the directing biologist has confirmed fish life have been successfully excluded from the entire area enclosed by the cofferdam(s), it may be appropriate to remove block nets and allow fish to re-enter the previously isolated work area; this approach is particularly relevant and appropriate where many weeks or months of construction are planned for completion within temporary cofferdams (i.e., isolated from flowing waters).

qualified biologist, or other field staff trained in safe fish handling, shall be assigned the responsibility of inspecting the nets and safely capturing and relocating any impinged fish. The frequency of these inspections shall be determined on a case-by-case basis. However, block nets shall, at a minimum, be inspected for impinged fish (especially juvenile fish) at least three times daily for the first 48 hours after installation (approximate), and for the first 24 hours after significant rainfall (or change in flow volume or velocity). In the event fish are found impinged on the net(s), or if weather or flow conditions change significantly, the directing biologist shall re-consider and adjust the frequency of net inspections so as to minimize the risk of impinging and injuring fish.

Field staff shall be assigned the responsibility of frequently checking and maintaining the nets for accumulated debris, general stability, and proper function. The frequency of these inspections shall be determined on a case-by-case basis, dependent upon the site, seasonal, and weather conditions. Block nets must be secured along both banks and the channel bottom to prevent failure as a result of debris accumulation, high flows, and/or flanking. Some locations may require additional block net support (e.g., galvanized hardware cloth, affixed metal fence posts, etc.).

Fish Capture and Removal

If dewatering and/or flow diversion are deemed necessary¹, this work (including related fish capture and removal operations) shall comply with any provisions contained in the Hydraulic Project Approval (HPA), or applicable General HPA, issued by the WDFW. If the FWS and/or NMFS have provided relevant Terms and Conditions from a Biological Opinion addressing the work (or action), this work shall also comply with those Terms and Conditions.

If pumps are used to temporarily bypass water or to dewater residual pools or cofferdams, pump intakes shall be screened to prevent aquatic life from entering the intake. Fish screens or guards shall comply with Washington State law (RCW 77.57.010 and 77.57.070), with guidelines prescribed by the NMFS³, and any more stringent requirements contained in the HPA or General HPA issued by the WDFW. If pumps are to be used on a more permanent basis, as the primary or secondary method for diverting flow around the isolated work area, plans for dewatering shall address contingencies (i.e., extremes of flow or weather). These plans shall include ready access to a larger or additional "back-up" pump with screened intake. If the directing biologist has confirmed that all fish life has been successfully excluded from the area, if there is no risk of entraining fish, and adequate plans are in-place to address contingencies (including a routine schedule for inspection), then pumps may be operated without a screened intake.

³ National Marine Fisheries Service. 1997. Fish screening criteria for anadromous salmonids. NMFS Southwest Region, January 1997, 12p. << <http://swr.nmfs.noaa.gov/hcd/fishscrn.pdf> >>.

Fish Capture and Removal Methods:

Methods for safe capture and removal of fish from the isolated work area are described below. These methods are given in order of preference. At most locations, a combination of methods will be necessary. In order to avoid and minimize the risk of injury to fish, attempts to seine and/or net fish shall always precede the use of electrofishing equipment. Visual observation techniques (e.g. snorkeling, surveying with polarized glasses or Plexiglas bottomed buckets, etc.) may be used to assess the effectiveness of these methods, to identify locations where fish are concentrating, or otherwise adjust methods for greater effectiveness.

If the planned fish capture and removal operations have not been addressed through consultation (or programmatic consultation), if seining and netting are impracticable (i.e., electrofishing is deemed the only viable means of fish capture), and fish listed under the ESA will or may be present, the directing biologist shall provide notice to the FWS and/or NMFS (as appropriate). This notice shall be provided in advance of the operations, and shall include an explanation of the unique site conditions or circumstances. Work conducted under a declared emergency (or emergency conditions) shall follow established ESA notification protocols.

Where fish listed under the ESA will or may be present, the directing biologist shall ensure that fish capture and removal operations adhere to the following minimum performance measures or expectations:

- 1) Only dip nets and seines composed of soft (non-abrasive) nylon material shall be used.
- 2) The operations shall not resort to the use of electrofishing equipment unless and until other, less injurious methods have been effective in removing most or all of the adult and sub-adult fish (i.e., fish in excess of 300 millimeters); the operations shall conduct a minimum of three complete passes without capture using seines and/or nets.
- 3) The operations shall confirm success of fish capture and removal before completely dewatering or commencing with other work within the isolated work area; the operations shall conduct a minimum of two complete passes without capture using electrofishing equipment.
- 4) Fish listed under the ESA shall not be held in containers for more than 10 minutes, unless those containers are dark-colored, lidded, and fitted with a portable aerator.

• **Seining** shall be the preferred method for fish capture. Other methods shall be used when seining is not possible, or when/after attempts at seining have proven ineffective. Seines, once pursed, shall remain partially in the water while fish are removed with dip nets. Seines with a “bag” minimize handling stress and are preferred. Seines with a bag

are also preferred where obstructions make access to the water (or deployment/ retrieval of the seine) difficult.

In general, seining will be more effective if fish, especially juvenile fish, are moved (or “flushed”) out from under cover. Methods which may increase effectiveness and/or efficiency include conducting seining operations at dawn or dusk (i.e., during low-light conditions), in conjunction with snorkeling, and/or flushing of the cover. In flowing waters, and especially where flow volume or velocity is high or moderately-high, seines that employ a heavy lead line and variable mesh size are preferred. Small mesh sizes are more effective across the full range of fish size (and age class), but also increase resistance and can make deployment/ retrieval more difficult in flowing waters. Seines which use a small mesh size in the bag (or body), and a larger, less resistant mesh size in the wings may under some conditions be most effective and efficient.

- **Baited Minnow Traps** are typically used before and in conjunction with seining. Traps may be left in the isolated work area overnight. Traps shall be inspected at least four times daily to remove captured fish and thereby minimize predation within the trap. Traps should be checked more frequently if temperatures are in excess of 15 degrees C. Predation within the trap may be an unacceptable risk when/ where minnow traps are left in-place over night; large sculpin and other predators that feed on juvenile fish are typically much more active at night. The directing biologist shall consider the need and plan for work outside daylight hours (i.e., inspection and removal) before leaving minnow traps in-place over night.

- **Dip Nets** shall be used in conjunction with seining. This method is particularly effective when employed during gradual dewatering or flow diversion. To be most effective, and to minimize stress and risk of injury to fish (including stranding), the directing biologist shall coordinate fish capture operations with plans for dewatering or flow diversion. Plans for dewatering and/or flow diversion shall proceed at a measured pace (within constraints), to encourage the volitional downstream movement of fish, and reduce the risk of stranding. Plans for dewatering and/or flow diversion shall not proceed unless there are sufficient staff and materials on-site to capture and safely remove fish in a timely manner. Generally this will require a minimum of two persons (three if electrofishing), but the directing biologist may find that some sites (especially large or complicated sites) warrant or require a more intensive effort (i.e., additional staffing).

Once netted, fish shall remain partially in water until transferred to a bucket, cooler, or holding tank. Dip nets which retain a volume of water (“sanctuary nets”) are preferred. However, sanctuary nets may be ineffective where flow volume or velocity is high or moderately-high (i.e., increased resistance lessens ability to net and capture fish). In addition, where water depths are very shallow and/or fish are concentrated in very small receding pools or coarse substrate, “aquarium” nets may be a better, more effective choice. Use of dip nets in conjunction with snorkeling, flushing of the cover, or around the hours of dawn or dusk (i.e., during low-light conditions), can be effective for capturing fish sheltered below cover.

- **Connecting Rod Snakes** may be used to flush fish out of stream crossing structures (i.e., culverts). Connecting rod snakes are composed of wood sections approximately three feet in length. Like other cover attractive to fish, culverts (especially long culverts), can present a challenge to fish capture and removal operations. The directing biologist should plan a strategy for focusing and concentrating fish in areas where they can be easily seined and netted, and should take active steps to prevent fish from evading capture. When first implementing plans for work area isolation, fish capture and removal, and dewatering, it may be appropriate to place block nets immediately upstream and/or downstream of culverts so as to minimize the number of fish that might seek cover within the culvert(s). Once most or all of the fish have been removed from other parts of the work area, the block net placed downstream of the culvert(s) should be removed to encourage volitional downstream movement of fish.

- **Electrofishing** shall be performed only when other methods of fish capture and removal have proven impracticable or ineffective at removing all fish. The directing biologist shall ensure that attempts to seine and/or net fish always precede the use of electrofishing equipment. Larger fish (i.e., adult and sub-adult fish with comparatively longer spine lengths) are more susceptible to electrofishing injury than smaller fish. To minimize the risk of injury (and the number of fish potentially injured), the directing biologist shall confirm that other methods have been effective in removing most or all of the adult and sub-adult fish before resorting to the use of electrofishing equipment; see the related performance measure appearing on page 6. As a general rule or performance measure, electrofishing should not be conducted under conditions that offer poor visibility (i.e., visibility of less than 0.5 meter).

The following performance measures shall apply to the use of electrofishing equipment as a means of fish capture and removal:

1. If the planned fish capture and removal operations have not been addressed through consultation (or programmatic consultation), and fish listed under the ESA will or may be present, WSDOT shall provide notice to the FWS and/or NMFS prior to the initiation of electrofishing attempts. Upon request, the WSDOT shall permit the FWS, NMFS, and/or their designated representative to observe fish capture and removal operations. Work conducted under a declared emergency (or emergency conditions) shall follow established ESA notification protocols.

2. Electrofishing shall only be conducted when a biologist with at least 100 hours of electrofishing experience is on-site to conduct or direct all related activities. The directing biologist shall be familiar with the principles of electrofishing, including the effects of voltage, pulse width and pulse rate on fish, and associated risk of injury or mortality. The directing biologist shall have knowledge regarding galvanotaxis, narcosis and tetany, their relationships to injury/mortality rates, and shall have the ability to recognize these responses when exhibited by fish.

3. The directing biologist shall ensure that electrofishing attempts use the minimum voltage, pulse width, and rate settings necessary to achieve the desired response

(galvanotaxis). Water conductivity shall be measured in the field prior to each electrofishing attempt to determine appropriate settings. Electrofishing methods and equipment shall comply with guidelines outlined by the NMFS⁴.

4. The initial and maximum settings identified below shall serve as guidelines when electrofishing in waters that may support ESA-listed fish. Only DC or pulsed DC current shall be used. [Note: some newer, late-model electrofishing equipment includes a “set-up” or initialization function; the directing biologist shall have the discretion to use this function as a means to identify proper initial settings.]

Guidelines for initial and maximum settings for backpack electrofishing.⁵

	Initial Settings	Conductivity (µS/cm)	Maximum Settings
Voltage	100 V	≤ 300 > 300	800 V 400 V
Pulse Width	500 µs		5 ms
Pulse Rate	15 Hz		60 Hz [<i>In general, exceeding 40 Hz will injure more fish.</i>]

Each attempt shall begin with low settings for pulse width and pulse rate. If fish present in the area being electrofished do not exhibit a response, the settings shall be gradually increased until the appropriate response is achieved (galvanotaxis). The lowest effective settings for pulse width, pulse rate and voltage shall be used to minimize risks to both personnel and fish. Safe implementation is a high priority. The directing biologist shall ensure the safety of all individuals assisting with electrofishing attempts; this includes planning for and providing all necessary safety equipment and materials (e.g., insulated waders and gloves, first aid/cpr kit, a current safety plan with emergency contacts and phone numbers, etc.). Only individuals that are trained and familiar with the use of electrofishing equipment shall provide direct assistance during electrofishing attempts.

5. Electrofishing shall not be conducted where spawning adults or redds with incubating eggs may be exposed to the electrical current. As a general rule or performance measure, waters that support anadromous salmon should not be electrofished from October 15 through May 15, and resident waters from November 1 through May 15. If located within waters that support bull trout, especially waters located within a local bull trout population (i.e., that support spawning and rearing), seasonal limitations on the use of electrofishing equipment may be more restrictive; if you have questions, contact the

⁴ National Marine Fisheries Service. 2000. Guidelines for electrofishing waters containing salmonids listed under the Endangered Species Act. NMFS Northwest Region, June 2000, 5p.

<< <http://www.nwr.noaa.gov/ESA-Salmon-Regulations-Permits/4d-Rules/upload/electro2000.pdf> >>.

⁵ Adapted from NMFS (June 2000) and WDFW Electrofishing Guidelines for Stream Typing (May 2001).

FWS. If any, more restrictive work windows have been identified through consultation, those windows shall apply. The directing biologist shall ensure that electrofishing attempts are made only during appropriate times of year, and not where spawning adults or redds with incubating eggs may be exposed to the electrical current.

6. An individual shall be stationed at the downstream block net(s) during electrofishing attempts to recover stunned fish in the event they are flushed downstream and/or impinged against the block net(s).

7. The operator shall use caution so as to prevent fish from coming into direct contact with the anode. Under most conditions, the zone of potential fish injury extends approximately 0.5 meter from the anode. Netting shall not be attached to the anode, as this practice presents an increased risk of direct contact and injury. Extra care shall be taken near in-water structures or undercut banks, in shallow waters, or where fish densities are high. Under these conditions fish are more likely to come into close or direct contact with the anode and/or voltage gradients may be intensified. Voltage and other settings shall be readjusted to accommodate changing conditions in the field, including channel depth. When electrofishing near undercut banks, overhanging vegetation, large cobble or boulders, or where structures provide cover, fish that avoid capture may be exposed to the electrical current repeatedly. Repeated or prolonged exposures to the electrical current present a higher risk of injury, and therefore galvanotaxis should be used to draw fish out of cover.

8. Electrofishing shall be conducted in a manner that minimizes harm to fish. Once an appropriate fish response (galvanotaxis) is achieved, the isolated work area shall be worked systematically. The number of passes shall be kept to a minimum, but is dependent upon the numbers of fish and site characteristics and shall be at the discretion of the directing biologist. Electrofishing shall not be conducted unless there are sufficient staff and materials on-site, to both minimize the number of passes required and to locate, net, recover, and release fish in a timely manner. Generally this will require a minimum of three persons, but the directing biologist may find that some sites (especially large or complicated sites) warrant or require a more intensive effort (i.e., additional staffing). Care shall be taken to remove fish from the electrical field immediately and to avoid exposing the same fish repeatedly. Fish shall not be held in dip nets while electrofishing is in progress (i.e., while continuing to capture additional fish). [Note: where flow velocity or turbulence is high or moderately-high (e.g., within riffles) it may be difficult to see and net fish; these fish may evade capture (resulting in repeated exposure), or may become impinged on the downstream block net(s); a "frame" net, or small and portable block net approximately 3 feet in width, can be effective under these conditions when held downstream in close proximity to the anode.]

9. The condition of captured fish shall be carefully observed and documented. Dark bands on the body and/or extended recovery times are signs of stress or injury. When such signs are noted, settings for the electrofishing unit may require readjustment. The directing biologist shall also review and consider changes to the manner in which the electrofishing attempt is proceeding. If adjustments to the electrofishing attempt do not

lessen the frequency (or severity) of observed stress, the directing biologist shall have the authority to postpone fish capture and removal operations⁶. Each fish shall be capable of remaining upright and actively swimming prior to release (see Fish Handling, Holding and Release).

10. Electrofishing shall not be conducted when turbidity reduces visibility to less than 0.5 meter, when water conductivity exceeds 350 $\mu\text{S}/\text{cm}$, or when water temperature is above 18°C or below 4°C.

Fish Handling, Holding and Release:

- Fish handling shall be kept to the minimum necessary to remove fish from the isolated work area. Fish capture and removal operations shall be planned and conducted so as to minimize the amount and duration of handling. The operations shall maintain captured fish in water to the maximum extent possible during seining/netting, handling, and transfer for release.
- The directing biologist shall document and maintain accurate records of the operations, including: fish species, number, age/size class estimate, condition at release, and release location. Fish shall not be sampled or anesthetized, unless for valid purposes consistent with the WSDOT's Section 10 scientific collection permits.
- Individuals handling fish shall ensure that their hands are free of harmful and/or deleterious products, including but not limited to sunscreen, lotion, and insect repellent.
- The operations shall ensure that water quality conditions are adequate in the buckets, coolers, or holding tanks used to hold and transfer captured fish. The operations shall use aerators to provide for clean, cold, well-oxygenated water, and/or shall stage capture, temporary holding, and release to minimize the risks associated with prolonged holding. The directing biologist shall ensure that conditions in the holding containers are monitored frequently and operations adjusted appropriately to minimize fish stress. If fish listed under the ESA will or may be held for more than a few minutes prior to release, the directing biologist should consider using dark-colored, lidded containers only. Fish listed under the ESA shall not be held in containers for more than 10 minutes, unless those containers are dark-colored, lidded, and fitted with a portable aerator; small coolers meeting this description are preferred over buckets.
- The operations shall provide a healthy environment for captured fish, including low densities in holding containers to avoid effects of overcrowding. Large fish shall be kept

⁶ If the FWS and/or NMFS have provided an Incidental Take Statement from a Biological Opinion addressing the work (or action), the directing biologist shall ensure limits on take have not been exceeded; if the limits on take are exceeded, or if take is approaching these limits, the directing biologist shall postpone fish capture and removal operations and immediately notify the federal agency (or agencies) with jurisdiction.

separate from smaller fish to avoid predation. The operations shall use water-to-water transfers whenever possible.

- The release site(s) shall be determined by the directing biologist. The directing biologist should consider both site characteristics (e.g., flow, temperature, available refuge and cover, etc.) and the types of fish captured (e.g., out-migrating smolt, kelt, prespawn migrating adult, etc.) when selecting a release site(s). More than one site may be designated to provide for varying needs, and to separate prey-sized fish from larger fish. The directing biologist shall consider habitat connectivity and fish habitat requirements, seasonal flow and temperature conditions, and the duration and extent of planned in-water work when selecting a fish release site(s). If conditions upstream of the isolated work area will or may become unfavorable during construction, then fish should not be released to an upstream location. However, the directing biologist should also consider whether planned in-water work presents a significant risk of downstream turbidity and sedimentation; fish released to a downstream location may be exposed to these conditions. Site conditions may warrant releasing fish both upstream and downstream, or relocating fish at a greater distance (e.g., thousands of feet or miles), so as to ensure fish are not concentrated in areas where their habitat needs cannot be met. For a fuller discussion of this topic see page 2.
- The directing biologist shall ensure that each fish is capable of remaining upright and has the ability to actively swim upon release.
- Any ESA-listed fish incidentally killed as a result of fish capture and removal operations shall be preserved and delivered to the appropriate authority upon request (see Documentation).
- If the limits on take of ESA-listed species are exceeded (harm or harassment), or if incidental take is approaching and may exceed specified limits, the directing biologist shall postpone fish capture and removal operations and immediately notify the federal agency (or agencies) with jurisdiction. If dewatering or flow diversion is incomplete and still in-progress, WSDOT shall take remedial actions directed at maintaining sufficient quantity and quality of flow and lessening sources of fish stress and/or injury. If conditions contributing to fish stress and/or injury may worsen before the federal agency with jurisdiction can be contacted, WSDOT should attempt to move fish to a suitable location near the capture site while keeping fish in water and reducing stress as much as possible.

Reintroduction of Flow and Fish to the Isolated Work Area

If conducting work in isolation from flowing waters has required placement of a block net(s), fish capture and removal, and temporary dewatering, the directing biologist shall ensure that the block net(s) remain in-place until work is complete and conditions are suitable for the reintroduction of fish². Flows shall be gradually reintroduced to the isolated work area, so as to prevent channel bed or bank instability, excessive scour, or turbidity and sedimentation. The directing biologist shall inspect the work area and

downstream reach to ensure no fish are stranded or in distress during reintroduction of flows. If conditions causing or contributing to fish stress and/or injury are observed, WSDOT shall take remedial actions directed at lessening these sources of stress. This may include a more gradual reintroduction of flow, so as to reduce resulting turbidity and sedimentation.

All temporary structures and materials (e.g., block nets, posts, and anchors; bypass flume or culvert; sandbag, sheet pile or similar cofferdam; etc) shall be removed at the completion of work. The directing biologist shall document in qualitative terms the final condition of the isolated work area (including temporary bypass). The directing biologist shall identify and document any obvious signs of channel bed or bank instability resulting from the work, and shall report these conditions to the appropriate Maintenance, Construction, and/or Environmental staff for remedy. WSDOT shall document any additional actions taken to correct channel instability, and the final condition of the isolated work area (including temporary bypass).

To avoid and minimize the risk of introducing or spreading nuisance or invasive species, aquatic parasites, or disease, the directing biologist shall ensure that all equipment and materials are cleaned and dried before transporting them for use at another site or waterbody.

Documentation

- All work area isolation, and fish capture and handling shall be documented in a log book with the following information: project location, date, methods, personnel, water temperature, conductivity, visibility, electrofishing equipment settings, and other comments.
- All fish captured or handled shall be documented: species, number of each species, age/size class estimate, condition at release, and location of release.
- If at any time, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), WSDOT shall provide immediate notification to the WDFW consistent with any provisions contained in the HPA (or applicable General HPA). Notification shall consist of a phone call or voice mail message directed to the Area Habitat Biologist identified on the HPA and/or the Washington Military Department Emergency Management Division at (800) 258-5990, as appropriate.
- Any ESA-listed fish incidentally killed as a result of fish capture and removal operations shall be documented with notification provided to the appropriate authority (FWS and/or NMFS) within two working days. Initial notifications may consist of a phone call or voice mail message. Initial notifications shall be directed to the following: (FWS) the nearest FWS Law Enforcement Office, and the Washington Fish and Wildlife Office at (360) 753-9440; (NMFS) the NMFS Office of Law Enforcement at (800) 853-1964, and the Washington State Habitat Office at (360) 753-9530. Any dead specimens

shall be kept whole and preserved on-ice or frozen until WSDOT receives a response and further directions from the appropriate authority; if WSDOT receives no response within 5 working days, the directing biologist shall have the discretion to dispose of specimens. Initial notifications shall be followed by a second notification in writing. All notifications shall provide at a minimum the following: date, time, WSDOT point-of-contact (the directing biologist and/or supervisor), project name (and FWS and/or NMFS tracking number if available), precise location of any incidentally killed or injured and unrecovered fish, number of specimens and species, and cause of death or unrecoverable injury. If the limits on incidental take are exceeded (harm or harassment), the written notification shall also include an explanation of the circumstances causing or contributing to observed levels of take.

- The final condition of the isolated work area (including temporary bypass) shall be documented in qualitative terms, including any obvious signs of channel bed or bank instability resulting from the work. WSDOT shall document any additional actions taken to correct channel instability, and the final condition of the isolated work area (including temporary bypass).