

1 **INTRODUCTION**

2
3 The following Special Provisions are made a part of this contract and supersede any conflicting
4 provisions of the 2008 Standard Specifications for Road, Bridge, and Municipal Construction adopted
5 January, 2008, and the foregoing Amendments to the Standard Specifications.

6
7 The said Standard Specifications and Amendments thereto, the WSDOT Standard Plans, and WSDOT
8 Construction Manual, together with the Special Provisions and the attached plans hereinafter contained,
9 covering all work specified under this contract are hereby made a part of this contract. The Special
10 Provisions hereinafter contained shall supersede any conflicting provisions of the Standard Specifications
11 and Amendments thereto, the WSDOT Standard Plans, and WSDOT Construction Manual.

12
13 Several types of Special Provisions are included in this contract; General, Region, Bridges and Structures,
14 and Project Specific. Special Provisions types are differentiated as follows:

- 15
- 16 (date) General Special Provision
- 17 (*****) Notes a revision to a General Special Provision
- 18 and also notes a Project Specific Special Provision.
- 19 (APWA GSP) American Public Works Association General Special Provision

20
21 **General Special Provisions** are similar to Standard Specifications in that they typically apply to many
22 projects, usually in more than one Region. Usually, the only difference from one project to another is the
23 inclusion of variable project data, inserted as a “fill-in”.

24
25 **Project Specific Special Provisions** normally appear only in the contract for which they were developed.

26
27 The following paragraph pertaining to the Standard Specifications shall obtain and be made a part of this
28 contract:

29
30 Wherever the word “State” or “Contracting Agency” is used it shall mean Lewis County; that
31 wherever the words “Secretary (Secretary of Transportation)” are used they shall mean Lewis
32 County Engineer; that wherever the words “State Treasurer” are used they shall mean Lewis
33 County Treasurer; that wherever the words “State Auditor” are used they shall mean Lewis
34 County Auditor; that wherever the words “Motor Vehicle Fund” are used they shall mean Lewis
35 County Road Fund.
36

37 **SPECIAL PROVISIONS**

38 **1-01, DESCRIPTION OF WORK**

39 (March 13, 1995)

40 This Contract provides for the procurement, construction and connection of ***a new well complete with
41 submersible pump, pitless adaptor, valves, piping and appurtenances; 15 lf of 3-inch, 1,500 lf of 6-inch,
42 40 lf of 8-inch, 10 lf of 10-inch and 20 lf of 12-inch ductile iron water transmission, suction and discharge
43 lines complete with valves, gages and flowmeters; a booster pump station building complete with power,
44 lighting, ventilation, drainage, pipe supports, two booster pumps, chemical treatment system, testing,
45 spare parts, control equipment and system, owner’s manuals for the new water system improvements;***
46 and other work, all in accordance with these Contract Provisions, the attached Contract Plans, and the
47 Standard Specifications.

1
2 **1-02, BID PROCEDURES AND CONDITIONS**

3 **1-02.2 Plans and Specifications**

4 (*****)

5 The first paragraph of section 1-02.2 is revised to read:

6
7 Copies of the plans and specifications are on file in the office of:

8
9 Lewis County Public Works Department
10 2025 NE Kresky Ave.
11 Chehalis, Washington 98532
12 (360) 740-2759
13

14 The second paragraph of section 1-02.2 is revised to read:

15
16 Prospective bidders may obtain plans and specifications from Lewis County Public Works
17 Department in Chehalis, Washington for a fee; or download from the Lewis County Website at
18 www.lewiscountywa.gov. The fee shall accompany each request for plans. Checks shall be
19 payable to Lewis County Public Works Department.
20

21 **1-02.6 Preparation of Proposal**

22 (*****)

23 The first item of the fifth paragraph is revised to read:

- 24
25 1. Subcontractors who will perform the work of heating, ventilation and air conditioning,
26 plumbing as described in Chapter 18.106 RCW, electrical as described in Chapter 19.28
27 RCW, and of any other work that exceed \$10,000 must be included in CDBG Forms 7-C
28 through 7-F (Appendix C), and
29

30 **1-02.13 Irregular Proposals**

31 (*****)

32 Section 1-02.13 is supplemented with the following:

33
34 Bids will be considered irregular and will be rejected if all required documents listed in Appendix
35 C are not included with the bid proposals.
36

37 **1-02.12 Public Opening of Proposal**

38 (*****)

39 Section 1-02.12 is supplemented with the following:

40
41 ***Date of Opening Bids***

42
43 The Board of County Commissioners of Lewis County will open sealed proposals and
44 publicly read them aloud on or after 10:00 A.M. on **Monday, November 2, 2009**, at the
45 Lewis County Courthouse in Chehalis, Washington, for the Lewis County Water District
46 No. 1 - Phase 2 Water System Improvement Project.
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SEALED BIDS MUST BE DELIVERED BEFORE 9:30 A.M.

Sealed proposals must be delivered to the Lewis County Commissioners Office (351 N.W. North Street, Room 209, CMS-01, Chehalis, Washington 98532) by **9:30 A.M.** on the date specified for opening, and in an envelope clearly marked: ***“SEALED BID FOR THE LEWIS COUNTY WATER DISTRICT NO. 1 - PHASE 2 WATER SYSTEM IMPROVEMENT PROJECT TO BE OPENED ON OR AFTER 10:00 A.M. ON MONDAY, November 2, 2009.”***

1-02.14, Disqualification of Bidders

(September 12, 2007 APWA GSP)

Revise this section to read:

1. A bidder will be deemed not responsible and the proposal rejected if the bidder does not meet the responsibility criteria in RCW 39.04.
2. A bidder will be deemed not responsible and the proposal rejected if:
 - a. More than one proposal is submitted for the same project from a bidder under the same or different names;
 - b. Evidence of collusion exists with any other bidder or potential bidder. Participants in collusion will be restricted from submitting further bids;
 - c. The bidder, in the opinion of the Contracting Agency, is not qualified for the work or to the full extent of the bid, or to the extent that the bid exceeds the authorized prequalification amount as may have been determined by a prequalification of the bidder;
 - d. An unsatisfactory performance record exists based on past or current Contracting Agency work or for work done for others, as judged from the standpoint of conduct of the work; workmanship; progress; affirmative action; equal employment opportunity practices; or Disadvantaged Business Enterprise, Minority Business Enterprise, or Women’s Business Enterprise utilization;
 - e. There is uncompleted work (Contracting Agency or otherwise) which might hinder or prevent the prompt completion of the work bid upon;
 - f. The bidder failed to settle bills for labor or materials on past or current contracts;
 - g. The bidder has failed to complete a written public contract or has been convicted of a crime arising from a previous public contract;
 - h. The bidder is unable, financially or otherwise, to perform the work;
 - i. There are any other reasons deemed proper by the Contracting Agency.

1-02.15, Pre Award Information

(October 1, 2005 APWA GSP)

Revise this section to read:

- Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:
1. A complete statement of the origin, composition, and manufacture of any or all materials to be used.
 2. Samples of these materials for quality and fitness tests.
 3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work.
 4. A breakdown of costs assigned to any bid item.

5. Attendance at a conference with the Engineer or representatives of the Engineer.
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. A copy of State of Washington Contractor's Registration, or
8. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.
9. Health and Safety Plan.

1-03, AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids

(*****)

Section 1-03.1 is supplemented with the following:

Bidders are notified that all bids are likely to be rejected if the lowest responsive bid received exceeds the Engineer's estimate by an unreasonable amount. In the event all bids are rejected for this reason, this project may be deferred for re-advertising for bids until a more competitive situation exists.

1-04, SCOPE OF THE WORK

1-04.9 Use of Buildings or Structures

(*****)

Section 1-04.9 is supplemented with the following:

All operations of the Contractor (including storage of materials) shall be confined to areas approved by the Engineer. Other contractors, employees, and agents of Lewis County Water District No. 1 may for all necessary purposes enter the work sites and premises used by the Contractor. The Contractor shall provide and maintain weather tight, secured storage sheds for his own use. All storage sheds provided by the Contractor shall have substantial floors raised a minimum of 6 inches above ground surface. The Contractor shall locate all storage sheds as directed by the Engineer. The Contractor shall completely remove storage sheds and equipment immediately after completion of the work.

1-05, CONTROL OF WORK

1-05.4 Conformity With and Deviations from Plans and Stakes

(*****)

Section 1-05.4 is supplemented with the following:

The Contractor shall keep and maintain, at the job site, one set of Contract Plans. The Contractor shall mark daily on this set all project conditions, locations, configurations, and any other changes or deviations which may vary from the details shown on the original contract plans, including buried or concealed construction and utility features which are revealed during the course of construction. Special attention shall be given to recording the horizontal and vertical location of all buried utilities that differ from the locations indicated, or which were not indicated on the contract plans. Said contract plans shall be supplemented by any detailed sketches as necessary or as directed to fully indicate the work as actually constructed. These contract plans of the Contractor's representation of as-built conditions, including all revisions made necessary by addenda, change orders, approved substitutions, and the like shall be maintained daily during the progress of the work.

1 Contract Plans shall be accessible to the Engineer at all times during the construction period and shall
2 be delivered to the Engineer upon completion of the work prior to Final Acceptance of the project.

3 4 **1-05.7 Removal of Defective and Unauthorized Work**

5 (October 1, 2005 APWA GSP)

6 Supplement this section with the following:

7
8 If the Contractor fails to remedy defective or unauthorized work within the time specified in a written
9 notice from the Engineer, or fails to perform any part of the work required by the Contract
10 Documents, the Engineer may correct and remedy such work as may be identified in the written
11 notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem
12 necessary.

13
14 If the Contractor fails to comply with a written order to remedy what the Engineer determines to be
15 an emergency situation, the Engineer may have the defective and unauthorized work corrected
16 immediately, have the rejected work removed and replaced, or have work the Contractor refuses to
17 perform completed by using Contracting Agency or other forces. An emergency situation is any
18 situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or
19 might cause serious risk of loss or damage to the public.

20
21 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying
22 defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by
23 the Contractor. Payment will be deducted by the Engineer from monies due, or to become due, the
24 Contractor. Such direct and indirect costs shall include in particular, but without limitation,
25 compensation for additional professional services required, and costs for repair and replacement of
26 work of others destroyed or damaged by correction, removal, or replacement of the Contractor's
27 unauthorized work.

28
29 No adjustment in contract time or compensation will be allowed because of the delay in the
30 performance of the work attributable to the exercise of the Contracting Agency's rights provided by
31 this Section.

32
33 The rights exercised under the provisions of this section shall not diminish the Contracting Agency's
34 right to pursue any other avenue for additional remedy or damages with respect to the Contractor's
35 failure to perform the work as required.

36 37 **1-06, CONTROL OF MATERIAL**

38 **Buy America**

39 Section 1-06 is supplemented with the following:

40
41 (August 6, 2007)

42 The major quantities of steel and iron construction material that is permanently incorporated into the
43 project shall consist of American-made materials only. Buy America does not apply to temporary
44 steel items, e.g., temporary sheet piling, temporary bridges, steel scaffolding and falsework.

45
46 The Contractor may utilize minor amounts of foreign steel and iron in this project provided the cost
47 of the foreign material used does not exceed one-tenth of one percent of the total contract cost or
48 \$2,500.00, whichever is greater.

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

5
6 If domestically produced steel billets or iron ingots are exported outside of the area of coverage, as
7 defined above, for any manufacturing process then the resulting product does not conform to the Buy
8 America requirements. Additionally, products manufactured domestically from foreign source steel
9 billets or iron ingots do not conform to the Buy America requirements because the initial melting
10 and mixing of alloys to create the material occurred in a foreign country.

11
12 Manufacturing begins with the initial melting and mixing, and continues through the coating stage.
13 Any process which modifies the chemical content, the physical size or shape, or the final finish is
14 considered a manufacturing process. The processes include rolling, extruding, machining, bending,
15 grinding, drilling, welding, and coating. The action of applying a coating to steel or iron is deemed a
16 manufacturing process. Coating includes epoxy coating, galvanizing, aluminizing, painting, and any
17 other coating that protects or enhances the value of steel or iron. Any process from the original
18 reduction from ore to the finished product constitutes a manufacturing process for iron.

19
20 Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and alloys),
21 scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced iron ore.

22
23 The following are considered to be steel manufacturing processes:

24
25 1. Production of steel by any of the following processes:

- 26 a. Open hearth furnace.
- 27 b. Basic oxygen.
- 28 c. Electric furnace.
- 29 d. Direct reduction.

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

36
37 3. Fabrication of the products.

- 38 a. Spinning wire into cable or strand.
- 39 b. Corrugating and rolling into culverts.
- 40 c. Shop fabrication.

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45 A certification of materials origin will be required for any items comprised of, or containing,
46 steel or iron construction materials prior to such items being incorporated into the permanent
47 work. The certification shall be on DOT Form 350-109EF provided by the Engineer, or such
48 other form the Contractor chooses, provided it contains the same information as DOT Form
49 350-109EF

1 **1-06.1 Approval of Materials Prior to Use**

2 (*****)

3 Section 1-06.1 is supplemented with the following:

4
5 A unique number shall identify each submittal. The identification number shall be used to track the
6 status of any submittal. If resubmission is required, a letter suffix to the original identification
7 number shall be used. The first resubmission shall have the suffix A, second B, etc.

8
9 **1-06.1(2) Request for Approval of Material (RAM)**

10 (*****)

11 Section 1-06.1(2) is supplemented with the following:

12
13 Submittal Procedures

14 Submittals requiring the Engineer’s review and approval shall be submitted prior to procurement,
15 fabrication, or start of the associated construction activity. Four (4) copies of submittals shall be sent
16 physically, electronically, or by fax for the Engineer’s review. A minimum of 10 calendar days shall
17 be allowed for the Engineer’s review, unless stated otherwise in these specifications or on the plans.

18 Additional submittal requirements are:

- 19
20
21 1. Submittals shall identify the project, Contractor, subcontractor, supplier, pertinent drawing
22 sheet and detail number(s), and specification section number. Submittals shall also be
23 sequentially numbered.
24 2. Schedule submittals as needed to expedite the project.
25 3. Identify variations from contract documents, and product or system limitations which may be
26 detrimental to successful performance of the completed project.
27 4. Space for Engineer’s review signature shall be provided on the submittal.
28 5. Revise and resubmit submittals as required by Engineer, and identify all changes made since
29 previous submittal.
30 6. Distribute copies of reviewed submittals to affected parties. Instruct parties to promptly
31 report any inability to comply with provisions.

32
33 Proposed Substitutes of “or Approved Equal” Items

34 Whenever materials or equipment are specified or described in the contract documents by using the
35 name of a proprietary item or the name of a particular supplier, the naming of the item is intended to
36 establish the type, function, and quality required. If the name is followed by the words “or approved
37 equal” indicating that a substitution is permitted (i.e., if “or approved equal” is not indicated,
38 substitutes are not allowed), materials or equipment of other suppliers may be accepted by the
39 Engineer if sufficient information is submitted by the Contractor to allow the Engineer to determine
40 that the material or equipment proposed is equivalent or equal to that named.

41
42 Procedures for Substitute Items After Award of Contract

43 If during the course of the work, the Contractor believes that there is a substitute item which will
44 perform the intended function equal or better than the required item, the Contractor may request a
45 substitution. The Engineer will be the sole judge as to the type, function, and quality of any such
46 substitute material or equipment, and the Engineer’s decision shall be final.

47
48 If the Contractor wishes to furnish or use a substitute item of material or equipment, the Contractor
49 shall make written application to the Engineer.

50
51 Unless authorized in writing by the Engineer, the application shall be submitted at least 30 days prior

1 to the date on which the material must be ordered to arrive on site such that the work is not delayed.

2
3 Wherever a proposed substitute material or equipment has not been submitted within said 30-day
4 period, or wherever the submission of a proposed substitute material or equipment has been judged
5 to be unacceptable by the Engineer, the Contractor shall provide the material or equipment named in
6 the Contract documents.

7
8 The Contractor shall certify that the proposed substitute will adequately perform the functions and
9 achieve the results called for by the general design, be similar and of equal substance to that
10 specified, and be suited to the same use as that specified.

11
12 The Engineer will be allowed a minimum of 15 working days to evaluate each proposed substitute.

13
14 As applicable, no shop drawing submittals will be made for a substitute item nor will any substitute
15 item be ordered, installed, or utilized without the Engineer's prior written acceptance of the
16 Contractor's application.

17
18 Application for Substitution

19 The RAM shall contain the following statements and information which will be used by the Engineer in
20 evaluating the proposed substitution:

- 21
22 1. The evaluation and acceptance of the proposed substitute will not prejudice the
23 Contractor's achievement of Substantial Completion.
24
25 2. Whether or not acceptance of the substitute will require a change in any of the contract
26 documents to adapt the design to the proposed substitute.
27
28 3. Whether or not incorporation or use of the substitute in connection with the work is subject
29 to payment of any license fee or royalty.
30
31 4. All variations of the proposed substitute for that specified are identified.
32
33 5. Available maintenance, repair and replacement service are indicated.
34
35 6. Itemized estimate of all costs that will result directly or indirectly from acceptance of such
36 substitute, including cost of redesign and claims of other contractors affected by the
37 resulting change.

38
39 **1-06.2 Acceptance of Materials**

40 (*****)

41 Section 1-06.2 is supplemented with the following:

42
43 **1-06.2(1) Samples and Tests for Acceptance**

44
45 Whenever samples are required, the Contractor shall submit not less than 3 samples of each item or
46 material to the Engineer for acceptance at no additional cost to the Contracting Agency.

47
48 All samples shall be individually, legibly and indelibly labeled or tagged, indicating thereon all
49 specified physical characteristics and supplier's name for identification and submittal to the Engineer
50 for acceptance.

1 Unless otherwise specified, all colors and textures of specified items will be selected by the Engineer
2 from the manufacturer's standard colors, materials, products or equipment lines, if applicable.

3
4 Upon receiving acceptance of the Engineer, one set of the samples will be stamped and dated by the
5 Engineer and returned to the Contractor; one set will be retained by the Engineer; and one set shall
6 remain at the job site until completion of the work.

7 **1-06.5 Owners Manuals and Operating Instructions**

8 **(*****)**

9 Section 1-06.5 is supplemented with the following:

10
11
12 The Contractor shall prepare an Operation and Maintenance (O&M) Manual for the system. The
13 manual shall include description of the system and all electrical and mechanical components,
14 maintenance procedures and frequencies, sources for spare parts, and other information required to
15 keep the system operational.

16
17 Include manufacturer's O&M manuals for individual components, product literature, and other
18 pertinent information as appendices.

19 20 **1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

21 **1-07.1 Laws to Be Observed**

22 **(*****)**

23 Section 1-07.1 is supplemented with the following:

24
25 Any Erosion Control fines levied by regulatory agencies against the County relative to work
26 performed under this contract shall be deducted from payments to the Contractor.

27 28 **1-07.2 State Taxes**

29 (March 13, 1995)

30 Section 1-07.2 is supplemented with the following:

31
32 The work on this contract is to be performed upon lands whose ownership obligates the Contractor
33 to pay Sales tax. The provisions of Section 1-07.2(2) apply.

34 35 **1-07.4 Sanitation**

36 **(*****)**

37 Section 1-07.4 is supplemented with the following:

38 **Portable Toilet Facility**

39 The Contractor shall be required to supply at least one portable toilet on the job site at all times when
40 the Contractor has any employees on the job site performing contract work. Portable toilets shall be
41 serviced on a weekly basis. When toilet facilities are no longer needed, the Contractor shall remove
42 from the site, disinfect and clean, and restore the site as needed.

43
44
45 This work shall be included in the bid item for mobilization. An amount approximating the actual
46 cost per work will be subtracted from the bid item for mobilization for each week the portable toilet
47 is not supplied on the job site or served on a weekly basis.

48 49 **1-07.6 Permits and Licenses**

50 **(*****)**

51 Section 1-07.6 is supplemented with the following:

1
2 **State and County Permits**

3 LCWD#1 has obtained a WSDOT Utility Permit and Lewis County Building Permit for this project,
4 which are available at the Engineer’s Office for review. It is the Contractor’s responsibility to have
5 all permits on site after the award of the contract; and at no expense to the Contracting Agency,
6 comply with all requirements of the permits. Work shall not proceed until Contractor has met Item
7 No. 5 in Section 1-07.6.
8

9 **1-07.9 Wages**

10 (*****)

11 Section 1-07.9 is supplemented with the following:

12
13 **1-07.9(1) General**

14
15 The wage rates attached to these provisions are informational only and subject to change. The wage
16 rates in effect at the time of bid opening shall apply per the fourth paragraph of 1-07.9(1) found in
17 the Standard Specifications.
18

19 **1-07.9(2) Posting Notices**

20
21 5. U.S. Department of Labor “Employee Rights under the Davis-Bacon Act” (Form WH 1321)
22 poster.
23

24 **1-07.11 Requirements for Nondiscrimination**

25 (March 6, 2000)

26 Section 1-07.11 is supplemented with the following:

27
28 Requirement For Affirmative Action to Ensure Equal Employment Opportunity (Executive Order
29 11246)

- 30
31 1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal
32 Equal Employment Opportunity Construction Contract Specifications set forth herein.
33
34 2. The goals and timetables for minority and female participation set by the Office of Federal
35 Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate
36 work force in each construction craft and in each trade on all construction work in the covered
37 area, are as follows:
38

39 Women - Statewide

40
41 Timetable Goal

42
43 Until further notice 6.9%

44 Minorities - by Standard Metropolitan Statistical Area (SMSA)

45
46 Spokane, WA:

47 SMSA Counties:

48 Spokane, WA 2.8

49 WA Spokane.

50 Non-SMSA Counties 3.0

51 WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA

Pend Oreille; WA Stevens; WA Whitman.

Richland, WA

SMSA Counties:

Richland Kennewick, WA 5.4
WA Benton; WA Franklin.

Non-SMSA Counties 3.6
WA Walla Walla.

Yakima, WA:

SMSA Counties:

Yakima, WA 9.7
WA Yakima.

Non-SMSA Counties 7.2
WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.

Seattle, WA:

SMSA Counties:

Seattle Everett, WA 7.2
WA King; WA Snohomish.

Tacoma, WA 6.2
WA Pierce.

Non-SMSA Counties 6.1
WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis;
WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.

Portland, OR:

SMSA Counties:

Portland, OR-WA 4.5
WA Clark.

Non-SMSA Counties 3.8
WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.

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

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

3. The Contractor shall provide written notification to the Engineer within 10 working days of award of any construction subcontract in excess of \$10,000 or more that are Federally

1 funded, at any tier for construction work under the contract resulting from this
2 solicitation. The notification shall list the name, address and telephone number of the
3 subcontractor; employer identification number of the subcontractor; estimated dollar
4 amount of the subcontract; estimated starting and completion dates of the subcontract;
5 and the geographical area in which the contract is to be performed.
6

- 7 4. As used in this Notice, and in the contract resulting from this solicitation, the Covered
8 Area is as designated herein.
9

10 Standard Federal Equal Employment Opportunity Construction Contract Specifications
11 (Executive Order 11246)
12

- 13 1. As used in these specifications:
14

15 a. Covered Area means the geographical area described in the solicitation from
16 which this contract resulted;
17

18 b. Director means Director, Office of Federal Contract Compliance Programs,
19 United States Department of Labor, or any person to whom the Director
20 delegates authority;
21

22 c. Employer Identification Number means the Federal Social Security number used
23 on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department
24 Form 941;
25

26 d. Minority includes:
27

28 (1) Black, a person having origins in any of the Black Racial Groups of Africa.
29

30 (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican,
31 Puerto Rican, Cuban, Central American, South American, or other Spanish
32 origin.
33

34 (3) Asian or Pacific Islander, a person having origins in any of the original
35 peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and
36 Samoa.
37

38 (4) American Indian or Alaskan Native, a person having origins in any of the
39 original peoples of North America, and who maintain cultural identification
40 through tribal affiliation or community recognition.
41

- 42 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the
43 work involving any construction trade, it shall physically include in each subcontract in
44 excess of \$10,000 the provisions of these specifications and the Notice which contains
45 the applicable goals for minority and female participation and which is set forth in the
46 solicitations from which this contract resulted.
47

- 48 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan
49 approved by the U.S. Department of Labor in the covered area either individually or
50 through an association, its affirmative action obligations on all work in the Plan area
51 (including goals and timetables) shall be in accordance with that Plan for those trades

1 which have unions participating in the Plan. Contractors must be able to demonstrate
2 their participation in and compliance with the provisions of any such Hometown Plan.
3 Each Contractor or Subcontractor participating in an approved Plan is individually
4 required to comply with its obligations under the EEO clause, and to make a good faith
5 effort to achieve each goal under the Plan in each trade in which it has employees. The
6 overall good faith performance by other Contractors or Subcontractors toward a goal in
7 an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to
8 take good faith effort to achieve the Plan goals and timetables.
9

- 10 4. The Contractor shall implement the specific affirmative action standards provided in
11 paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation
12 from which this contract resulted are expressed as percentages of the total hours of
13 employment and training of minority and female utilization the Contractor should
14 reasonably be able to achieve in each construction trade in which it has employees in the
15 covered area. Covered construction contractors performing construction work in
16 geographical areas where they do not have a Federal or federally assisted construction
17 contract shall apply the minority and female goals established for the geographical area
18 where the work is being performed. The Contractor is expected to make substantially
19 uniform progress in meeting its goals in each craft during the period specified.
20
- 21 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union
22 with whom the Contractor has a collective bargaining agreement, to refer either
23 minorities or women shall excuse the Contractor's obligations under these specifications,
24 Executive Order 11246, or the regulations promulgated pursuant thereto.
25
- 26 6. In order for the nonworking training hours of apprentices and trainees to be counted in
27 meeting the goals, such apprentices and trainees must be employed by the Contractor
28 during the training period, and the Contractor must have made a commitment to employ
29 the apprentices and trainees at the completion of their training, subject to the availability
30 of employment opportunities. Trainees must be trained pursuant to training programs
31 approved by the U.S. Department of Labor.
32
- 33 7. The Contractor shall take specific affirmative actions to ensure equal employment
34 opportunity. The evaluation of the Contractor's compliance with these specifications
35 shall be based upon its effort to achieve maximum results from its action. The Contractor
36 shall document these efforts fully, and shall implement affirmative action steps at least as
37 extensive as the following:
38
- 39 a. Ensure and maintain a working environment free of harassment, intimidation,
40 and coercion at all sites, and in all facilities at which the Contractor's employees
41 are assigned to work. The Contractor, where possible, will assign two or more
42 women to each construction project. The Contractor shall specifically ensure that
43 all foremen, superintendents, and other on-site supervisory personnel are aware
44 of and carry out the Contractor's obligation to maintain such a working
45 environment, with specific attention to minority or female individuals working at
46 such sites or in such facilities.
47
 - 48 b. Establish and maintain a current list of minority and female recruitment sources,
49 provide written notification to minority and female recruitment sources and to
50 community organizations when the Contractor or its unions have employment
51 opportunities available, and maintain a record of the organizations' responses.

- 1
- 2 c. Maintain a current file of the names, addresses and telephone numbers of each
- 3 minority and female off-the-street applicant and minority or female referral from
- 4 a union, a recruitment source or community organization and of what action was
- 5 taken with respect to each such individual. If such individual was sent to the
- 6 union hiring hall for referral and was not referred back to the Contractor by the
- 7 union or, if referred, not employed by the Contractor, this shall be documented in
- 8 the file with the reason therefor, along with whatever additional actions the
- 9 Contractor may have taken.
- 10
- 11 d. Provide immediate written notification to the Director when the union or unions
- 12 with which the Contractor has a collective bargaining agreement has not referred
- 13 to the Contractor a minority person or woman sent by the Contractor, or when the
- 14 Contractor has other information that the union referral process has impeded the
- 15 Contractor's efforts to meet its obligations.
- 16
- 17 e. Develop on-the-job training opportunity and/or participate in training programs
- 18 for the area which expressly include minorities and women, including upgrading
- 19 programs and apprenticeship and trainee programs relevant to the Contractor's
- 20 employment needs, especially those programs funded or approved by the U.S.
- 21 Department of Labor. The Contractor shall provide notice of these programs to
- 22 the sources compiled under 7b above.
- 23
- 24 f. Disseminate the Contractor's EEO policy by providing notice of the policy to
- 25 unions and training programs and requesting their cooperation in assisting the
- 26 Contractor in meeting its EEO obligations; by including it in any policy manual
- 27 and collective bargaining agreement; by publicizing it in the company
- 28 newspaper, annual report, etc.; by specific review of the policy with all
- 29 management personnel and with all minority and female employees at least once
- 30 a year; and by posting the company EEO policy on bulletin boards accessible to
- 31 all employees at each location where construction work is performed.
- 32
- 33 g. Review, at least annually, the company's EEO policy and affirmative action
- 34 obligations under these specifications with all employees having any
- 35 responsibility for hiring, assignment, layoff, termination or other employment
- 36 decisions including specific review of these items with on-site supervisory
- 37 personnel such as Superintendents, General Foremen, etc., prior to the initiation
- 38 of construction work at any job site. A written record shall be made and
- 39 maintained identifying the time and place of these meetings, persons attending,
- 40 subject matter discussed, and disposition of the subject matter.
- 41
- 42 h. Disseminate the Contractor's EEO policy externally by including it in any
- 43 advertising in the news media, specifically including minority and female news
- 44 media, and providing written notification to and discussing the Contractor's EEO
- 45 policy with other Contractors and Subcontractors with whom the Contractor does
- 46 or anticipates doing business.
- 47
- 48 i. Direct its recruitment efforts, both oral and written to minority, female and
- 49 community organizations, to schools with minority and female students and to
- 50 minority and female recruitment and training organizations serving the
- 51 Contractor's recruitment area and employment needs. Not later than one month

1 prior to the date for the acceptance of applications for apprenticeship or other
2 training by any recruitment source, the Contractor shall send written notification
3 to organizations such as the above, describing the openings, screening
4 procedures, and tests to be used in the selection process.

5
6 j. Encourage present minority and female employees to recruit other minority
7 persons and women and where reasonable, provide after school, summer and
8 vacation employment to minority and female youth both on the site and in other
9 areas of a Contractor's work force.

10
11 k. Validate all tests and other selection requirements where there is an obligation to
12 do so under 41 CFR Part 60-3.

13
14 l. Conduct, at least annually, an inventory and evaluation of all minority and female
15 personnel for promotional opportunities and encourage these employees to seek
16 or to prepare for, through appropriate training, etc., such opportunities.

17
18 m. Ensure that seniority practices, job classifications, work assignments and other
19 personnel practices, do not have a discriminatory effect by continually
20 monitoring all personnel and employment related activities to ensure that the
21 EEO policy and the Contractor's obligations under these specifications are being
22 carried out.

23
24 n. Ensure that all facilities and company activities are nonsegregated except that
25 separate or single-user toilet and necessary changing facilities shall be provided
26 to assure privacy between the sexes.

27
28 o. Document and maintain a record of all solicitations of offers for subcontracts
29 from minority and female construction contractors and suppliers, including
30 circulation of solicitations to minority and female contractor associations and
31 other business associations.

32
33 p. Conduct a review, at least annually, of all supervisors' adherence to and
34 performance under the Contractor's EEO policies and affirmative action
35 obligations.

36
37 8. Contractors are encouraged to participate in voluntary associations which assist in
38 fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts
39 of a contractor association, joint contractor-union, contractor-community, or other similar
40 group of which the Contractor is a member and participant, may be asserted as fulfilling
41 any one or more of the obligations under 7a through 7p of this Special Provision provided
42 that the Contractor actively participates in the group, makes every effort to assure that the
43 group has a positive impact on the employment of minorities and women in the industry,
44 ensure that the concrete benefits of the program are reflected in the Contractor's minority
45 and female work-force participation, makes a good faith effort to meet its individual
46 goals and timetables, and can provide access to documentation which demonstrate the
47 effectiveness of actions taken on behalf of the Contractor. The obligation to comply,
48 however, is the Contractor's and failure of such a group to fulfill an obligation shall not
49 be a defense for the Contractor's noncompliance.

50
51 9. A single goal for minorities and a separate single goal for women have been established.

1 The Contractor, however, is required to provide equal employment opportunity and to
2 take affirmative action for all minority groups, both male and female, and all women,
3 both minority and non-minority. Consequently, the Contractor may be in violation of the
4 Executive Order if a particular group is employed in substantially disparate manner (for
5 example, even though the Contractor has achieved its goals for women generally, the
6 Contractor may be in violation of the Executive Order if a specific minority group of
7 women is underutilized).

- 8
- 9 10. The Contractor shall not use the goals and timetables or affirmative action standards to
10 discriminate against any person because of race, color, religion, sex, or national origin.
- 11
- 12 11. The Contractor shall not enter into any subcontract with any person or firm debarred from
13 Government contracts pursuant to Executive Order 11246.
- 14
- 15 12. The Contractor shall carry out such sanctions and penalties for violation of these
16 specifications and of the Equal Opportunity Clause, including suspensions, terminations
17 and cancellations of existing subcontracts as may be imposed or ordered pursuant to
18 Executive Order 11246, as amended, and its implementing regulations by the Office of
19 Federal Contract Compliance Programs. Any Contractor who fails to carry out such
20 sanctions and penalties shall be in violation of these specifications and Executive Order
21 11246, as amended.
- 22
- 23 13. The Contractor, in fulfilling its obligations under these specifications, shall implement
24 specific affirmative action steps, at least as extensive as those standards prescribed in
25 paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts
26 to ensure equal employment opportunity. If the Contractor fails to comply with the
27 requirements of the Executive Order, the implementing regulations, or these
28 specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
- 29
- 30 14. The Contractor shall designate a responsible official to monitor all employment related
31 activity to ensure that the company EEO policy is being carried out, to submit reports
32 relating to the provisions hereof as may be required by the government and to keep
33 records. Records shall at least include, for each employee, their name, address, telephone
34 numbers, construction trade, union affiliation if any, employee identification number
35 when assigned, social security number, race, sex, status (e.g., mechanic, apprentice,
36 trainee, helper, or laborer), dates of changes in status, hours worked per week in the
37 indicated trade, rate of pay, and locations at which the work was performed. Records
38 shall be maintained in an easily understandable and retrievable form; however, to the
39 degree that existing records satisfy this requirement, the Contractors will not be required
40 to maintain separate records.
- 41
- 42 15. Nothing herein provided shall be construed as a limitation upon the application of other
43 laws which establish different standards of compliance or upon the application of
44 requirements for the hiring of local or other area residents (e.g., those under the Public
45 Works Employment Act of 1977 and the Community Development Block Grant
46 Program).

47
48 (September 17, 2007)

49 ***Disadvantaged Business Enterprise Participation***

50 The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 apply to this
51 contract. The requirements of this contract are to encourage DBE participation, supply a bidder's list,

1 and to report race neutral accomplishments quarterly as described in this special provision. No
2 preference will be included in the evaluation of bids/proposals, no minimum level of DBE
3 participation shall be required as a condition for receiving an award and bids/proposals will not be
4 rejected or considered non-responsive on that basis.

5
6 **DBE Goals**

7 No DBE goals have been assigned as a part of this contract.

8
9 **Affirmative Efforts to Solicit DBE Participation**

10 DBE firms shall have equal opportunity to compete for and perform subcontracts which the
11 Contractor enters into pursuant to this contract. Contractors are encouraged to:

- 12
13 1. Advertise opportunities for Subcontractors or suppliers in a manner reasonably
14 designed to provide DBEs capable of performing the work with timely notice of such
15 opportunities. All advertisements should include a provision encouraging
16 participation by DBE firms and may be done through general advertisements (e.g.
17 newspapers, journals, etc.) or by soliciting bids/proposals directly from DBEs.
18
19 2. Utilize the services of available minority community-based organizations, minority
20 contractor groups, local minority assistance offices and organizations that provide
21 assistance in the recruitment and placement of DBEs and other small businesses.

22
23 In addition, the Office of Minority and Women’s Business Enterprises has two DBE
24 Supportive Services Offices available to assist you as follows:

25
26 Seattle: (206) 553-7356
27 Tacoma: (253) 680-7393
28

- 29 3. Establish delivery schedules, where requirements of the contract allow, that
30 encourage participation by DBEs and other small businesses.
31
32 4. Achieve attainment through joint ventures.
33

34 In the absence of a mandatory goal, all DBE participation that is attained on this project will be
35 considered as “race neutral” participation and will be reported as such.
36

37 **DBE Eligibility (for reporting purposes only)**

38 **Selection of DBEs:**

39 DBEs utilized on the contract will be eligible to be counted as race neutral participation
40 only if the firm is identified as a DBE on the current list of firms certified by the Office of
41 Minority and Women’s Business Enterprises (OMWBE), the DBE firm is certified in the
42 corresponding NAICS code(s) for the type of work to be performed, and the DBE firm
43 performs a commercially useful function. A list of firms certified by OMWBE, including
44 the NAICS codes for which they are certified, is available from that office and on line
45 through their website (www.omwbe.wa.gov/directory/directory.htm) or by telephone at
46 (360) 704-1181.
47

48 **Counting DBE Participation For Reporting Race Neutral Accomplishments**

49 When a DBE firm participates in a contract, only the value of the work actually performed by
50 the DBE will be counted as race-neutral participation.
51

1. Count the entire amount of the portion of the contract that is performed by the DBE's own forces. Include the cost of supplies and materials obtained by the DBE for the work of the contract, including supplies purchased or equipment leased by the DBE (except supplies, materials, and equipment the DBE Subcontractor purchases or leases from the Prime Contractor or its affiliate, unless the Prime Contractor is also a DBE). Work performed by a DBE, utilizing resources of the Prime Contractor or its affiliates will not be counted as race-neutral participation. 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. The arrangement must not erode a DBE firm's ability to perform a Commercially Useful Function (See discussion of CUF, below).
2. Count the entire amount of fees or commissions charged by a DBE firm for providing a bona fide service, such as professional, technical, consultant, or managerial services, or for providing bonds or insurance.
3. When a DBE subcontracts part of the work of its contract to another firm, the value of the subcontracted work may be counted as race neutral 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 as race neutral participation.
4. When a 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 counted toward the DBE goal, so long as it is a distinct clearly defined portion of the work of the subcontract that the DBE is performing with its own forces in a commercially useful function.

DBE Prime Contractor

A DBE prime Contractor may only count the work performed with its own forces and the work performed by DBE Subcontractors and DBE suppliers.

Joint Venture

When a DBE performs as a participant in a joint venture, only that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work that the DBE performs with its own forces will count as race neutral participation.

Commercially Useful Function

Payments to a DBE firm will count as race neutral participation only if the DBE is performing a commercially useful function on the contract.

1. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, installing (if applicable) and paying for the material itself. Two party checks are not allowed.

- 1 2. A DBE does not perform a commercially useful function if its role is limited to that
2 of an extra participant in a transaction, contract, or project through which funds are
3 passed in order to obtain the appearance of DBE participation.
4

5 **Trucking**

6 Use the following factors in determining whether a DBE trucking company is performing a
7 commercially useful function:
8

- 9 1. The DBE must be responsible for the management and supervision of the entire
10 trucking operation for which it is listed on a particular contract.
11
12 2. The DBE must itself own and, with its own workforce, operate at least one fully
13 licensed, insured, and operational truck used on the contract.
14
15 3. The DBE receives credit only for the total value of the transportation services it
16 provides on the contract using trucks it owns or leases, licenses, insures, and operates
17 with drivers it employs.
18
19 4. For purposes of this paragraph a lease must indicate that the DBE has exclusive use
20 of and control over the truck. This does not preclude the leased truck from working
21 for others during the term of the lease with the consent of the DBE, so long as the
22 lease gives the DBE absolute priority for use of the leased truck. Leased trucks must
23 display the name and identification number of the DBE.
24
25 5. The DBE may lease trucks from another DBE firm, including an owner-operator who
26 is certified as a DBE. The DBE who leases trucks from another DBE may report
27 race-neutral participation for the total value of the transportation services the lessee
28 DBE provides on the contract.
29
30 6. The DBE may also lease trucks from a non-DBE firm and may enter an agreement
31 with an owner-operator who is a non-DBE. The DBE who leases trucks from a non-
32 DBE or employs a non-DBE owner-operator is entitled to count race-neutral
33 participation only for the fee or commission it receives as a result of the lease
34 arrangement. The DBE may not count the total value of the transportation services
35 provided by the lessee, since these services are not provided by a DBE.
36
37 7. In any lease or owner-operator situation, as described in paragraphs 5 & 6 above, the
38 following rules shall apply:
39
40 (A written lease/rental agreement on all trucks leased or rented, showing the
41 true ownership and the terms of the rental must be submitted and approved
42 by the Contracting Agency prior to the beginning of the work. The
43 agreement must show the lessor's name, trucks to be leased, and agreed
44 upon amount or method of payment (hour, ton, or per load). All lease
45 agreements shall be for a long-term relationship, rather than for the
46 individual project. Does not apply to owner-operator arrangements.
47
48 (Only the vehicle, (not the operator) is leased or rented. Does not apply to
49 owner-operator arrangements.
50

- 1 8. In order for payments to be counted as race-neutral participation, DBE trucking firms
2 must be covered by a subcontract or a written agreement approved by WSDOT prior
3 to performing their portion of the work.
4

5 **Expenditures paid to other DBEs**

6 Expenditures paid to other DBEs for materials or supplies may be counted toward race neutral
7 participation as provided in the following:
8

9 **Manufacturer**

10 1. Counting

11 If the materials or supplies are obtained from a DBE manufacturer, count 100 percent
12 of the cost of the materials or supplies toward race neutral participation.
13

14 2. Definition

15 To be a manufacturer, the firm operates or maintains a factory or establishment that
16 produces, on the premises, the materials, supplies, articles, or equipment required
17 under the contract and of the general character described by the specifications.
18

- 19 3. In order to receive credit as a DBE manufacturer, the firm must have received an “on-
20 site” review and been approved by WSDOT-OEO to operate as a DBE
21 Manufacturing firm. To schedule a review, the manufacturing firm must submit a
22 written request to WSDOT/OEO and may not receive race neutral credit, until the
23 completion of the review. Once a firm’s manufacturing process has been approved in
24 writing, it is not necessary to resubmit the firm for approval unless the manufacturing
25 process has substantially changed. Information on approved manufacturers may be
26 obtained from WSDOT-OEO.
27

28 **Regular Dealer**

29 1. Counting

30 If the materials or supplies are purchased from a DBE regular dealer, 60 percent of
31 the cost of the materials or supplies will count toward race neutral participation.
32

33 2. Definition

34 a) To be a regular dealer, the firm must own, operate or maintain a store,
35 warehouse, or other establishment in which the materials, supplies, articles or
36 equipment of the general character described by the specifications and required
37 under the contract are bought, kept in stock, and regularly sold or leased to the
38 public in the usual course of business. It must also be an established, regular
39 business that engages, as its principal business and under its own name, in the
40 purchase and sale or lease of the products in question.
41

42 b) A person may be a regular dealer in such bulk items as petroleum products,
43 steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining
44 a place of business, as provided elsewhere in this specification, if the person
45 both owns and operates distribution equipment for the products. Any
46 supplementing of regular dealers’ own distribution equipment shall be by a long-
47 term lease agreement and not on an ad hoc or contract-by-contract basis.
48

49 c) Packagers, brokers, manufacturers’ representatives, or other persons who arrange
50 or expedite transactions are not regular dealers.
51

- 1 3. Regular dealer status is granted on a contract-by-contract basis. To obtain regular
2 dealer status, a formal written request must be made by the interested supplier
3 (potential regular dealer) to WSDOT/OEO. Included in the request shall be a full
4 description of the project, type of business operated by the DBE, and the manner the
5 DBE will operate as a regular dealer on the specific contract. Rules applicable to
6 regular dealer status are contained in 49 CFR Part 26.55.e.2. Once the request is
7 reviewed by WSDOT-OEO, the DBE supplier requesting it will be notified in writing
8 whether regular dealer status was approved.
9

10 **Materials or Supplies Purchased from a DBE**

11 With respect to materials or supplies purchased from a DBE who is neither a manufacturer
12 nor a regular dealer, the entire amount of fees or commissions charged for assistance in the
13 procurement of the materials and supplies or fees or transportation charges for the delivery
14 of materials or supplies required on a job site may be counted as race neutral participation.
15 No part of the cost of the materials and supplies themselves may be applied as race neutral
16 participation.
17

18 **Procedures Between Award and Execution**

19 After award of the contract, the successful bidder shall provide the additional information
20 described below. A failure to comply shall result in the forfeiture of the bidder's proposal bond
21 or deposit.
22

23 A list of all firms who submitted a bid or quote in an attempt to participate in this project
24 whether they were successful or not. Include the correct business name, federal employer
25 identification number (optional) and a mailing address.
26

27 The firms identified by the Contractor may be contacted to solicit general information as
28 follows:
29

- 30 1. age of the firm
- 31
- 32 2. average of its gross annual receipts over the past three-years
33

34 **Procedures After Execution**

35 **Reporting**

36 The Contractor shall submit a "Quarterly Report of Amounts Credited as DBE
37 Participation" (actual payments) on a quarterly basis for any calendar quarter in which
38 DBE work is accomplished or upon completion of the project, as appropriate. The
39 quarterly reports are due on January 20th, April 20th, July 20th, and October 20th of each
40 year. The dollars reported will be in accordance with the "**Counting DBE Participation
41 for Reporting Race Neutral Participation**" section of this specification.
42

43 In the event that the payments to a DBE have been made by an entity other than the Prime
44 Contractor (as in the case of a lower-tier subcontractor or supplier), then the Prime
45 Contractor shall obtain the quarterly report, including the signed affidavit, from the paying
46 entity and submit the report to the Contracting Agency.
47

48 **Payment**

49 Compensation for all costs involved with complying with the conditions of this specification
50 and any associated DBE requirements is included in payment for the associated contract items
51 of work.

1
2 **1-07.12 Federal Agency Inspection**

3 (March 13, 1995)

4 Section 1-07.12 is supplemented with the following:

5
6 **Required Federal Aid Provisions**

7 The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) and the
8 amendments thereto supersede any conflicting provisions of the Standard Specifications and are
9 made a part of this contract; provided, however, that if any of the provisions of FHWA 1273, as
10 amended, are less restrictive than Washington State Law, then the Washington State Law shall
11 prevail.

12
13 The provisions of FHWA 1273, as amended, included in this contract require that the Contractor
14 insert the FHWA 1273 and amendments thereto in each subcontract, together with the wage rates
15 which are a part of the FHWA 1273, as amended. Also, a clause shall be included in each
16 subcontract requiring the subcontractors to insert the FHWA 1273 and amendments thereto in any
17 lower tier subcontracts, together with the wage rates. The Contractor shall also ensure that this
18 section, REQUIRED FEDERAL AID PROVISIONS, is inserted in each subcontract for
19 subcontractors and lower tier subcontractors. For this purpose, upon request to the Project
20 Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the amendments
21 thereto, the applicable wage rates, and this Special Provision.

22
23 **1-07.16 Protection and Restoration of Property**

24 Section 1-07.16 is supplemented with the following:

25
26 **1-07.16(1) Private/Public Property**

27 (*****)

28 The Contractor shall keep the work site free of accumulation of surplus materials and rubbish
29 resulting from his operations and the operations of subcontractors. The Contractor shall remove
30 rubbish weekly and at other times as required by the Engineer.

31
32 **1-07.17 Utilities and Similar Facilities**

33 Section 1-07.17 is supplemented with the following:

34
35 (February 5, 2001)

36 Locations and dimensions shown in the Plans for existing facilities are in accordance with
37 available information obtained without uncovering, measuring, or other verification.

38
39 Public and private utilities, or their contractors, will furnish all work necessary to adjust, relocate,
40 replace, or construct their facilities unless otherwise provided for in the Plans or these Special
41 Provisions. Such adjustment, relocation, replacement, or construction will be done during the
42 prosecution of the work for this project.

43
44 The Contractor shall call the Utility Location Request Center (One Call Center), for field
45 location, not less than two nor more than ten business days before the scheduled date for
46 commencement of excavation which may affect underground utility facilities, unless otherwise
47 agreed upon by the parties involved. A business day is defined as any day other than Saturday,
48 Sunday, or a legal local, State, or Federal holiday. The telephone number for the One Call Center
49 for this project may be obtained from the Engineer. If no one-number locator service is available,
50 notice shall be provided individually to those owners known or suspected of having underground

1 facilities within the area of proposed excavation.

2
3 The Contractor is alerted to the existence of Chapter 19.122 RCW, a law relating to underground
4 utilities. Any cost to the Contractor incurred as a result of this law shall be at the Contractor's
5 expense.

6
7 No excavation shall begin until all known facilities, in the vicinity of the excavation area, have
8 been located and marked.

9
10 The following addresses and telephone numbers of utility companies known or suspected of
11 having facilities within the project limits are supplied for the Contractor's convenience:

12
13 **TDS Telecom**
14 **PO Box 218**
15 **La Center, WA 98629**
16 **Telephone (360) 263-5969**

Lewis County P.U.D. No. 1
321 NW Pacific
Chehalis, WA 98532
Telephone (360) 748-9261

17
18 (*****)

19 Temporary Light, Power and Water

20 The Contractor shall furnish, install, maintain and remove all temporary light, power, and water at
21 its own expense. These include piping, wiring, lamps and other equipment necessary for the
22 project. The cost for such services shall be included in the associated bid items. The Contractor
23 shall not draw water from any fire hydrant or existing water supply structure (except to extinguish
24 a fire), and install temporary service materials in a permanent system without obtaining written
25 permission from the water purveyor concerned.

26
27 **1-07.18 Public Liability and Property Damage Insurance**

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

29
30 **1-07.18 Public Liability and Property Damage Insurance**

31 (May 10, 2006 APWA GSP)

32
33 **1-07.18(1) General Requirements**

34 A. The Contractor shall obtain the insurance described in this section from insurers approved by the
35 State Insurance Commissioner pursuant to RCW Title 48. The insurance must be provided by an insurer
36 with a rating of A-: VII or higher in the A.M. Best's Key Rating Guide, which is licensed to do business
37 in the state of Washington (or issued as a surplus line by a Washington Surplus lines broker). The
38 Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer
39 (including financial condition), terms and coverage, the Certificate of Insurance, and/or endorsements.

40
41 B. The Contractor shall keep this insurance in force during the term of the contract and for thirty (30)
42 days after the Physical Completion date, unless otherwise indicated (see C. below).

43
44 C. If any insurance policy is written on a claims made form, its retroactive date, and that of all
45 subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state
46 that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be
47 maintained by the Contractor for a minimum of 36 months following the Final Completion or earlier
48 termination of this contract, and the Contractor shall annually provide the Contracting Agency with
49 proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or
50 economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or
51 execute another form of guarantee acceptable to the Contracting Agency to assure financial

responsibility for liability for services performed.

- D. The insurance policies shall contain a “cross liability” provision.
- E. The Contractor’s and all subcontractors’ insurance coverage shall be primary and non-contributory insurance as respects the Contracting Agency’s insurance, self-insurance, or insurance pool coverage.
- F. All insurance policies and Certificates of Insurance shall include a requirement providing for a minimum of 30 days prior written notice to the Contracting Agency of any cancellation in any insurance policy.
- G. Upon request, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s).
- H. The Contractor shall not begin work under the contract until the required insurance has been obtained and approved by the Contracting Agency.
- I. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days notice to the Contractor to correct the breach, immediately terminate the contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- J. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the contract and no additional payment will be made.

1-07.18(2) Additional Insured

All insurance policies, with the exception of Professional Liability and Workers Compensation, shall name the following listed entities as additional insured(s):

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, whether primary, excess, contingent or otherwise, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(3) describes limits lower than those maintained by the Contractor.

1-07.18(3) Subcontractors

Contractor shall ensure that each subcontractor of every tier obtains and maintains at a minimum the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request of the Contracting Agency, the Contractor shall provide evidence of such insurance.

1-07.18(4) Evidence of Insurance

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. The certificate and endorsements must conform to the following requirements:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as

1 Additional Insured(s), showing the policy number. The Contractor may submit a copy of any blanket
2 additional insured clause from its policies instead of a separate endorsement. A statement of
3 additional insured status on an ACORD Certificate of Insurance shall not satisfy this requirement.

4 3. Any other amendatory endorsements to show the coverage required herein.
5

6 **1-07.18(5) Coverages and Limits**

7 The insurance shall provide the minimum coverages and limits set forth below. Providing coverage in
8 these stated minimum limits shall not be construed to relieve the Contractor from liability in excess of
9 such limits. All deductibles and self-insured retentions must be disclosed and are subject to approval by
10 the Contracting Agency. The cost of any claim payments falling within the deductible shall be the
11 responsibility of the Contractor.
12

13 **1-07.18(5)A Commercial General Liability**

14 A policy of Commercial General Liability Insurance, including:
15

16 Per project aggregate
17 Premises/Operations Liability
18 Products/Completed Operations – for a period of one year following final acceptance of the work.
19 Personal/Advertising Injury
20 Contractual Liability
21 Independent Contractors Liability
22 Stop Gap / Employers’ Liability
23 Explosion, Collapse, or Underground Property Damage (XCU)
24 Blasting (only required when the Contractor’s work under this Contract includes exposures to which
25 this specified coverage responds)
26

27 Such policy must provide the following minimum limits:

\$1,000,000 Each Occurrence
\$2,000,000 General Aggregate
\$1,000,000 Products & Completed Operations Aggregate
\$1,000,000 Personal & Advertising Injury, each offence

28 **Stop Gap / Employers’ Liability**

\$1,000,000 Each Accident
\$1,000,000 Disease - Policy Limit
\$1,000,000 Disease - Each Employee
29

30 **1-07.18(5)B Automobile Liability**

31 Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90 endorsement
32 and a CA 9948 endorsement attached if “pollutants” are to be transported. Such policy(ies) must provide
33 the following minimum limit:

\$1,000,000 combined single limit
34

35 **1-07.18(5)C Workers’ Compensation**

36 The Contractor shall comply with Workers’ Compensation coverage as required by the Industrial
37 Insurance laws of the state of Washington.
38

1 **1-08, PROSECUTION AND PROGRESS**

2 Add the following new section:

3
4 **1-08.0 Preliminary Matters**
5 (May 25, 2006 APWA GSP)
6

7 **1-08.0(1) Preconstruction Conference**
8 (October 10, 2008 APWA GSP)
9

10 Prior to the Contractor beginning the work, a preconstruction conference will be held between
11 the Contractor, the Engineer and such other interested parties as may be invited. The purpose
12 of the preconstruction conference will be:

- 13 1. To review the initial progress schedule;
- 14 2. To establish a working understanding among the various parties associated or affected
15 by the work;
- 16 3. To establish and review procedures for progress payment, notifications, approvals,
17 submittals, etc.;
- 18 4. To establish normal working hours for the work;
- 19 5. To review safety standards and traffic control; and
- 20 6. To discuss such other related items as may be pertinent to the work.

21
22 The Contractor shall prepare and submit at the preconstruction conference the following:

- 23 1. A breakdown of all lump sum items;
 - 24 2. A preliminary schedule of working drawing submittals; and
 - 25 3. A list of material sources for approval if applicable.
- 26

27 **1-08.0(2) Hours of Work**
28 (May 25, 2006 APWA GSP)
29

30 Except in the case of emergency or unless otherwise approved by the Contracting Agency, the
31 normal straight time working hours for the contract shall be any consecutive 8-hour period
32 between 7:00 a.m. and 6:00 p.m. of a working day with a maximum 1-hour lunch break and a
33 5-day work week. The normal straight time 8-hour working period for the contract shall be
34 established at the preconstruction conference or prior to the Contractor commencing the work.
35

36 If a Contractor desires to perform work on holidays, Saturdays, Sundays, or before 7:00 a.m. or
37 after 6:00 p.m. on any day, the Contractor shall apply in writing to the Engineer for permission
38 to work such times. Permission to work longer than an 8-hour period between 7:00 a.m. and
39 6:00 p.m. is not required. Such requests shall be submitted to the Engineer no later than noon
40 on the working day prior to the day for which the Contractor is requesting permission to work.
41

42 Permission to work between the hours of 10:00 p.m. and 7:00 a.m. during weekdays and
43 between the hours of 10:00 p.m. and 9:00 a.m. on weekends or holidays may also be subject to
44 noise control requirements. Approval to continue work during these hours may be revoked at
45 any time the Contractor exceeds the Contracting Agency's noise control regulations or
46 complaints are received from the public or adjoining property owners regarding the noise from
47 the Contractor's operations. The Contractor shall have no claim for damages or delays should
48 such permission be revoked for these reasons.

1
2 Permission to work Saturdays, Sundays, holidays or other than the agreed upon normal straight
3 time working hours Monday through Friday may be given subject to certain other conditions set
4 forth by the Contracting Agency or Engineer. These conditions may include but are not limited
5 to: requiring the Engineer or such assistants as the Engineer may deem necessary to be present
6 during the work; requiring the Contractor to reimburse the Contracting Agency for the costs in
7 excess of straight-time costs for Contracting Agency employees who worked during such times,
8 on non Federal aid projects; considering the work performed on Saturdays, Sundays, and
9 holidays as working days with regards to the contract time; and considering multiple work
10 shifts as multiple working days with respect to contract time even though the multiple shifts
11 occur in a single 24-hour period. Assistants may include, but are not limited to, survey crews;
12 personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting
13 Agency employees when in the opinion of the Engineer, such work necessitates their presence.

14 **1-08.1 Subcontracting**

15 (October 12, 1998)

16 Section 1-08.1 is supplemented with the following:

17
18
19 Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall
20 submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement
21 between the Contractor and the subcontractor or between the subcontractor and any lower tier
22 subcontractor has been executed. This certification shall also guarantee that these subcontract
23 agreements include all the documents required by the Special Provision **Federal Agency**
24 **Inspection.**

25
26 A subcontractor or lower tier subcontractor will not be permitted to perform any work under the
27 contract until the following documents have been completed and submitted to the Engineer:

- 28 1. Request to Sublet Work (Form 421-012), and
- 29 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid
30 Projects (Form 420-004)

31
32
33 The Contractor's records pertaining to the requirements of this Special Provision shall be open
34 to inspection or audit by representatives of the Contracting Agency during the life of the
35 contract and for a period of not less than three years after the date of acceptance of the contract.
36 The Contractor shall retain these records for that period. The Contractor shall also guarantee
37 that these records of all subcontractors and lower tier subcontractors shall be available and open
38 to similar inspection or audit for the same time period.

39 **1-08.3 Progress Schedule**

40 **1-08.3(1) General Requirements**

41
42 (*****)

43 Section 1.08.3(1) is supplemented with the following:

44
45
46 Within 5 calendar days after the date the Contract is executed, the Contractor shall submit 5
47 copies to the Engineer. If the Engineer determines that the progress schedule does not comply
48 with specified requirements, corrective revisions will be noted on the submittal copy returned to
49 the Contractor.
50

1 The progress schedule shall include all significant procurement and construction activities, and
2 all items of work. Dependencies between activities shall be indicated so that it may be
3 established what effect the progress of any one activity has on the schedule.

4
5 Time for completion, and all specific dates and sequencing requirements shall be shown on the
6 schedule. Activities making up the critical path shall be identified.

7
8 The schedule shall be prepared on reproducible paper with legible lines and lettering.

9
10 Revisions to critical path activities on the accepted progress schedule may be made only with
11 written approval by the Engineer. Changes in timing for activities which are not on the critical
12 path may be modified by the Contractor at his discretion with written notification to the
13 Engineer.

14 **1-08.5 Time For Completion**

15 (***)

16 Section 1-08.5 is supplemented with the following:

17 This project shall be physically completed within *** 48 *** working days.
18
19
20

21 **1-09, MEASUREMENT AND PAYMENT**

22 **1-09.9 Payments**

23 (October 10, 2008 APWA GSP)

24 Revise the first paragraph to read:

25
26 The basis of payment will be the actual quantities of Work performed according to the Contract and
27 as specified for payment. For items Bid as lump sum, with a bid price of more than or equal to
28 \$20,000, the Contractor shall submit a breakdown of their lump sum price in sufficient detail for the
29 Project Engineer to determine the value of the Work performed on a monthly basis. Lump sum
30 breakdowns shall be provided to the Project Engineer no later than the date of the preconstruction
31 conference.

32
33 Delete the third paragraph and replace it with the following:

34
35 Progress payments for completed work and material on hand will be based upon progress estimates
36 prepared by the Engineer. A progress estimate cutoff date will be established at the preconstruction
37 conference.

38
39 The initial progress estimate will be made not later than 30 days after the Contractor commences the
40 work, and successive progress estimates will be made every month thereafter until the Completion
41 Date. Progress estimates made during progress of the work are tentative, and made only for the
42 purpose of determining progress payment. The progress estimates are subject to change at any time
43 prior to the calculation of the Final Payment.

44
45 The value of the progress estimate will be the sum of the following:

- 46 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work
47 completed multiplied by the unit price.
- 48 2. Lump Sum Items in the Bid Form — partial payment for lump sum Bid items will be a
49 percentage of the price in the Proposal based on the Engineer's determination of the amount of
50 Work performed, with consideration given to, but not exclusively based on, the Contractor's lump
51 sum breakdown for that item.

- 1 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other
2 storage area approved by the Engineer.
- 3 4. Change Orders — entitlement for approved extra cost or completed extra work as determined by
4 the Engineer.

5
6 Progress payments will be made in accordance with the progress estimate less:

- 7 1. Retainage per Section 1-09.9(1);
- 8 2. The amount of Progress Payments previously made; and
- 9 3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract
10 Documents.

11
12 Progress payments for work performed shall not be evidence of acceptable performance or an
13 admission by the Contracting Agency that any work has been satisfactorily completed. The
14 determination of payments under the contract will be final in accordance with Section 1-05.1.

15
16 Payments will be made by warrants, issued by the Contracting Agency's fiscal officer, against the
17 appropriate fund source for the project. Payments received on account of work performed by a
18 subcontractor are subject to the provisions of RCW 39.04.250.

19 20 **1-09.11 Disputes and Claims**

21 22 **1-09.11(3) Time Limitations and Jurisdiction**

23 (*****)

24 Section 1.09.11(3) is revised with the following:

25
26 Thurston County shall be replaced with Lewis County.

27 28 **1-09.13 Claims Resolution**

29 30 **1-09.13(1) General**

31 (*****)

32 Section 1.09.13(1) is supplemented with the following:

33
34 Any dispute arising from the contract shall be processed in accordance with Section 1-04.5 and
35 Sections 1-09.11 through 1-09.13(1) of the Standard Specifications. The provisions of these
36 sections must be complied with in full as a condition precedent to the Contractor's right to seek
37 claims resolution through arbitration or litigation. The Contractor may file with the Engineer a
38 request for binding arbitration; the Engineer's decision regarding that request shall be final and
39 unappealable. Nothing in this paragraph affects or tolls the limitations period as set forth in
40 Section 1-09.11(3) of the Standard Specifications. However, if the Contractor files a lawsuit
41 raising any claim(s) arising from the contract, the parties shall, if the Engineer so directs, submit
42 such claim(s) to binding arbitration, subject to the rights of any party thereto to file with the Lewis
43 County Superior Court motions to dismiss or for summary judgment at any time. In any binding
44 arbitration proceeding, the provisions of subparagraphs (a) and (b) shall apply.

- 45
46 a) Unless the parties otherwise agree, all disputes subject to arbitration shall be heard in a
47 single arbitration hearing, and then only after completion of the contract. The parties
48 shall be bound by Ch. 7.04 RCW generally, and by the arbitration rules hereafter stated,
49 and shall, for purposes of administration of the arbitration, comply where applicable with

1 the 1994 Lewis County Superior Court Mandatory Arbitration Rules (LMAR) sections
2 1.1(b), 1.3, 2.3, 3.1, 3.2(a) and (b), 5.1, 5.2 (except as referenced to MAR 5.2), 5.3, 6.1,
3 6.2 (including the referenced MAR 6.2), and 8.6. There shall be one arbitrator, to be
4 chosen by mutual agreement of the parties from the list provided by the Lewis County
5 Superior Court Administrator. If the parties cannot agree on a person to serve as
6 arbitrator, the matter shall be submitted for appointment of an arbitrator under LMAR
7 2.3. The arbitrator shall determine the scope and extent of discovery, except that the
8 Contractor shall provide and update the information required by Section 1-09.11(2) of the
9 Standard Specifications. Additionally, each party shall file a statement of proof with the
10 other party and the arbitrator at least 20 calendar days before the scheduled arbitration
11 hearing. The statement of proof shall include:

- 12
- 13 1. The name, business address and contact telephone number of each witness who will
14 testify at the hearing.
- 15
- 16 2. For each witness to be offered as an expert, a statement of the subject matter and a
17 statement of the facts, resource materials (not protected by privilege) and learned
18 treatises upon which the expert is expected to testify and render an opinion(s),
19 synopsis of the basis for such opinion(s), and a resume of the expert detailing his/her
20 qualifications as an expert and pursuant to rendering such opinion(s). A list of
21 documents and other exhibits the party intends to offer in evidence at the arbitration
22 hearing. Either party may request a copy of any document listed, and a copy or
23 description of any other exhibit listed. The party receiving the request shall provide
24 the copies or description within five (5) calendar days. The parties or arbitrator may
25 subpoena parties in accordance with the Superior Court Mandatory Arbitration Rules
26 (MAR) of Washington, Rule 4.3, and witness fees and costs shall be provided for
27 under Rule 6.4, thereof. The arbitrator may permit a party to call a witness or offer a
28 document or other exhibit not included in the statement of proof only upon a showing
29 of good cause.
- 30

- 31 b) The arbitration hearing shall be conducted at a location within Lewis County,
32 Washington. The extent of application of the Washington Rules of Evidence shall be
33 determined in the exercise of sound discretion of the arbitrator, except that such Rules
34 should be liberally construed in order to promote justice. The parties should stipulate to
35 the admission of evidence when there is no genuine issue as to its relevance or
36 authenticity. The decision of the arbitrator and the specific grounds for the decision shall
37 be in writing. The arbitrator shall use the contract as a basis for its decisions. The
38 County and the Contractor agree to be bound by the decision of the arbitrator, subject to
39 such remedies as are provided in Ch. 7.04 RCW. Judgment upon the award rendered by
40 the arbitrator shall be entered as judgment before the presiding judge of the Superior
41 Court for Lewis County. Each party shall bear its own costs in connection with the
42 arbitration. Each party shall pay one-half of the arbitrator's fees and expenses.
- 43

44 **1-09.13(3) Claims \$250,000 or Less**

45 (*****)

46 Section 1-09.13(3) is hereby deleted.

47

48 **1-09.13(4) Claims in Excess of \$250,000**

49 (*****)

50 Section 1-09.13(4) is hereby deleted.

1
2
3 **DIVISION 4**
4 **BASES**
5

6 **4-04, BALLAST AND CRUSHED SURFACING**

7 **4-04.4 Measurement**

8 (*****)

9 Section 4-04.4 is supplemented with the following:

10
11 Measurement of this work includes hauling, placing and compacting the Crushed Surfacing Base Course
12 and Crushed Surfacing Top Course in accordance with these Special Provisions and Contract Plans.

13
14 **4-04.5 Payment**

15 (*****)

16 Section 4-04.5 is supplemented with the following:

17
18 Payment will be made in accordance with Section 1-04.1 for each of the following bid items:

19 "Crushed Surfacing Base Course" per ton; and

20 "Crushed Surfacing Top Course" per ton.

21
22 The Contracting Agency will not adjust the unit contract price for any increases or decreases in the
23 quantity of materials. The Contracting Agency has entered the estimated quantities to provide a common
24 proposal for bidders.

25
26
27 **DIVISION 5**
28 **SURFACE TREATMENTS AND PAVEMENTS**
29

30 **5-04, HOT MIX ASPHALT**

31 **5-04.3 Construction Requirements**

32 (*****)

33 Section 5-04.3 is supplemented with the following:

34
35 After placement of the HMA pavement, the Contractor will sand and tack all edges, cold joints, feathered
36 ends, and tapers which join existing asphalt, (such as asphalt concrete approaches, intersections, and curb
37 and gutter) with PG 64-22 liquid asphalt.

38
39 **5-04.3(7)A Mix Design**

40 (*April 27, 2009 APWA GSP*)

41 Section is deleted and replaced with:

42 (*****)

- 43
44 **1. General.** Prior to the production of HMA, the Contractor shall determine a design aggregate
45 structure and asphalt binder content in accordance with WSDOT Standard Operating Procedure
46 732. Once the design aggregate structure and asphalt binder content have been determined, the
47 Contractor shall submit the HMA mix design on DOT form 350-042 demonstrating the design
48 meets the requirements of Sections 9-03.8(2) and 9-03.8(6). HMA accepted by nonstatistical

1 evaluation requires a mix design verification. For HMA accepted by commercial evaluation only
2 the first page of DOT form 350-042 and the percent of asphalt binder is required. In no case shall
3 the paving begin before the determination of anti-strip requirements has been made. Anti-strip
4 requirements will be determined by:

- 5 a. Testing by WSDOT in accordance with TM 718.
- 6 b. Testing by Contractor in accordance with WSDOT TM 718.
- 7 c. Historical aggregate source ant-strip use provided by WDOT.

8
9
10 The mix design will be the initial Job Mix Formula (JMF) for the HMA being produced. Any
11 additional adjustments to the JMF will require the approval of the Project Engineer and may be
12 made per Section 9-03.8(7).

13
14 **2. Mix Design Verification.** Verification shall be accomplished by one of the following processes:

- 15 a. Submit samples to WSDOT State Materials Lab for WSDOT verification testing
16 in accordance with WSDOT Standard Specifications.
- 17 b. The contracting agency will perform tests to verify the mix design in accordance
18 with the Field Verification Testing Process.
- 19 c. Reference a mix design that has been previously verified by the Field
20 Verification Testing Process or verified by WSDOT State Materials Lab on a
21 previous project.
- 22 d. Perform Field Verification Testing on a sample of HMA provided by the
23 Contractor prior to paving.

24
25
26 Mix design verification is valid for one year from the date of verification. At the discretion of the
27 Engineer, agencies may accept mix designs verified beyond the verification year with certification
28 from the Contractor that the materials and sources are the same as those shown on the original mix
29 design.

30
31 **3. Field Verification Testing Process.** The Contracting agency will collect three Production
32 Samples of HMA on the first day of paving per AASHTO T 168 sampling procedures.

- 33 a. The Contracting agency will test one Production Sample in accordance with
34 section 5-04.3(8)A for field verification per the requirements of Section 9-
35 03.8(7).
- 36 b. If the test results from the first Production Sample are within the tolerances of
37 section 9-03.8(7), the mix design will be considered verified and the test results
38 will be used as acceptance sample number one.
- 39 c. If the test results from the first Production Sample are outside the tolerances of
40 section 9-03.8(7), the other two samples will be tested and the results of all three
41 tests will be used for acceptance in accordance with Section 5-04.5(1) and will be
42 used in the calculation of the CPF the maximum CPF shall be 1.00.

43
44
45 **4.** Prior to the first day of paving, six Ignition Furnace Calibration Samples shall be obtained to
46 calibrate the Ignition Furnaces used for acceptance testing of the HMA. Calibration samples shall
47 be provided by the Contractor when directed by the Engineer. Calibration samples shall be
48 prepared in accordance with WSDOT SOP 728.

49
50 **5-04.3(8)A Acceptance Sampling and Testing-HMA Mixture**

51 Items 1 & 2 are deleted and replaced with:

1 (*****)
2

- 3 1. **General.** Acceptance of HMA shall be as defined under nonstatistical or commercial evaluation.
4

5 Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the
6 contract documents.
7

8 Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the
9 following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel,
10 and pavement repair. Other nonstructural applications of HMA accepted by commercial
11 evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted
12 by commercial evaluation will be at the option of the Project Engineer. Commercial HMA can be
13 accepted by a contractor certification letter stating the material meets the HMA requirements
14 defined in the contract.
15

16 **5-04.3(8)A Acceptance Sampling and Testing-HMA Mixture**

17 Item 4 is replaced with the following:
18

- 19 **4. Definition of Sampling Lot and Sublot.** For the purpose of acceptance sampling and testing, a
20 lot is defined as the total quantity of material or work produced for each job mix formula (JMF)
21 placed. Only one lot per mix design will be expected to occur. The initial JMF is defined in
22 Section 5-04.3(7)A Mix Design. The Contractor may request a change in the JMF in accordance
23 with Section 9-03.8(7). If the request is approved, all of the material produced up to the time of
24 the change will be evaluated on the basis of tests on samples taken from that material and a new
25 lot will begin.
26

27 For proposal quantities less than 2500 tons sampling and testing for evaluation shall be performed
28 as described in 5-04.3(7)A, item 3, Field Verification Testing Process. The verification sample
29 referenced in item 3b may be used as an acceptance sample, additional testing will be at the
30 discretion of the Engineer. When using a previously verified mix design, testing for volumetric
31 properties may be waived at the engineer's discretion. At least one acceptance sample is required
32 when using this method of acceptance.
33

34 For proposal quantities greater than 2500 tons sampling and testing for evaluation shall be
35 performed as described in 5-04.3(7)A, item 3, Field Verification Testing Process, for the first
36 2500 tons of mix placed. The verification sample referenced in item 3b may be used as an
37 acceptance sample for the first 2500 tons of mix placed. Additional testing will be at the rate of
38 one sample per 800 tons of mix placed or as directed by the Engineer. When using a previously
39 verified mix design, testing for volumetric properties may be waived at the engineer's discretion.
40

41 **5-04.3(8)A Acceptance Sampling and Testing-HMA Mixture**

42 Item 7 is deleted.
43

44 **5-04.5(1)A Price Adjustments for Quality of HMA Mixture**

45 The first paragraph is deleted and replaced with:
46

47 (*****)

48 Statistical analysis of quality of gradation and asphalt content will be performed based on Section 1-
49 06.2 using the following price adjustment factors:
50

1 **Table of Price Adjustment Factors**

2 Constituent	Factor “f”
3 All aggregate passing: 1 ½”, 1”, ¾”,	
4 ½”, 3/8” and No. 4 sieves	2
5 All aggregate passing No. 8	15
6 All aggregate passing No. 200 sieve	20
7 Asphalt binder	52

8
9 Paragraph two, items 1-3 are deleted and replaced with:

10
11 A pay factor will be calculated for sieves listed in Section 9-03.8(7) for the class of HMA and for the
12 asphalt binder.

- 13
14 1. **Nonstatistical Evaluation.** Each lot of HMA produced under Nonstatistical Evaluation and
15 having all constituents falling within the tolerance limits of the job mix formula shall be accepted
16 at the unit contract price with no further evaluation. When one or more constituents fall outside
17 the nonstatistical acceptance tolerance limits in Section 9-03.8(7), the lot shall be evaluated in
18 accordance with Section 1-06.2 to determine the appropriate CPF. The nonstatistical tolerance
19 limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less
20 than three sublots exist, backup samples of the existing sublots or samples from the street shall be
21 tested to provide a minimum of three sets of results for evaluation.
- 22
23 2. **Commercial Evaluation.** If sampled and tested, HMA produced under Commercial Evaluation
24 and having all constituents falling within the tolerance limits of the job mix formula shall be
25 accepted at the unit contract price with no further evaluation. When one or more constituents fall
26 outside the commercial acceptance tolerance limits in Section 9-03.8(7), the lot shall be evaluated
27 to determine the appropriate CPF. The commercial tolerance limits will be used in the calculation
28 of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup
29 samples of the existing sublots or samples from the street shall be tested to provide a minimum of
30 three sets of results for evaluation.

31
32 For each lot of HMA produced under Nonstatistical or Commercial Evaluation when the calculated
33 CPF is less than 1.00, a Nonconforming Mix factor (NCMF) will be determined. The NCMF equals
34 the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The Job Mix Compliance
35 Price Adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in
36 tons, and the unit contract price per ton of the mix.

37
38 If a constituent is not measured in accordance with these Specifications, its individual pay factor will
39 be considered 1.00 in calculating the composite pay factor.

40
41 **5-04.5(1)B Price Adjustments for Quality of HMA Compaction**

42 Section is deleted and replaced with:

43 (*****)

44
45 The maximum CPF of a compaction lot is 1.00

46
47 For each compaction lot of HMA when the CPF is less than 1.00, a Nonconforming Compaction
48 Factor (NCCF) will be determined. THE NCCF equals the algebraic difference of CPF minus 1.00
49 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of the
50 NCCF, the quantity of HMA in the lot in tons and the unit contract price per ton of the mix.

1
2
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DIVISION 6 STRUCTURES

7

6-02, CONCRETE STRUCTURES

8

6-02.1 Description

9 (***)

10 Section 6-02.1 is supplemented with the following:

11 This Work shall consist of furnishing, obtaining bedding materials, preparing a firm subgrade, and
12 constructing the precast concrete vault to enclose the new 6-inch flowmeter specified in accordance with
13 the Contract Plans.

14

6-02.2 Materials

15 (***)

16 Section 6-02.2 is supplemented with the following:

17 The vault shall be designed to withstand lateral earth pressure of 75 pcf equivalent fluid density with a
18 triangular distribution on the side walls, snow load (150 pcf), and minimum load rating of 22,500 lbs.

19 Vaults shall be manufacturer's standard products. Concrete used in vaults shall conform to ACI standards
20 with $f_c' = 3,000$ psi minimum. Vault shall be Type 446-LA as manufactured by Utility Vault Company, or
21 approved equal.

22 The cover and access door shall open fully 180-degrees and have a recessed lift handle. The cover and
23 access door for the vault shall be the steel cover, No. 44-332P as manufactured by Utility Vault Company,
24 or approved equal.

25 The Contractor shall submit 4 copies of all required information in accordance with Section 1-06. Submit
26 the manufacturer name, model of the vault and access door to be installed, demonstrating conformance
27 with appropriate standards and these Special Provisions. Submit detailed specifications with dimensioned
28 drawings of the vault to be furnished by the manufacturer.

29

6-02.3 Construction

30 (***)

31 Section 6-02.3 is supplemented with the following:

32 Install vaults and covers as shown in the Contract Plans and in accordance with the manufacturer's
33 recommendations. The vault shall be placed on firm subgrade or bedding material to prevent settling.

34

6-02.4 Measurement

35 (***)

36 Section 6-02.4 is supplemented with the following:

37 Concrete vault will be measured per each for each precast concrete vault constructed and accepted.

38

6-02.5 Payment

39 (***)

1 Section 6-02.5 is supplemented with the following:

2
3 Payment will be made in accordance with Section 1-04.1 for "Precast Concrete Vault", per Each (EA).

4
5 All costs in connection with the construction of this work including excavation, bedding, backfill,
6 compaction shall be included by the Contractor in the unit Contract price for "Precast Concrete Vault".
7 No additional compensation will be allowed.

8
9 (*****)

10 **PUMP HOUSE BUILDING**

11 **Description**

12
13
14 This Work shall consist of furnishing and constructing the pump house building specified in accordance
15 with these Special Provisions and Contract Plans.

16 **Materials**

17
18 Concrete shall be Class 4000.

19
20 Drain Pipe and Underdrain Pipe shall be per Section 7-01.

21
22
23 Timber, doors, skylights, pipe penetrations through concrete floor, floor penetration seals, pipe saddles
24 and supports, lighting, ventilation, hardware, and all appurtenances shall be in accordance with the
25 Contract Plans. Hardware shall be galvanized unless otherwise specified in the Contract Plans.

26 **Construction**

27
28
29 The building shall be weather tight, installed plumb and level, and constructed in accordance with the
30 Contract Plans. As a minimum, the building shall be provided with the following:

- 31 1. Subgrade preparation which includes excavating, removing unsuitable materials, disposing,
32 hauling and compacting.
- 33 2. 500 sf of above ground, floor space.
- 34 3. Heat, ventilation and lighting.
- 35 4. Skylights and double steel doors with cylinder door lock and four sets of keys.
- 36 5. Drainage system of floor drain, footing drain, and drywell.
- 37 6. Pipe supports, hangers and saddle.
- 38 7. Floor penetration seals.

39 **Measurement**

40
41
42 The following approximate quantities of materials and work are listed only for the convenience of the
43 Contractor in determining the volume of work involved and are not guaranteed to be accurate. The
44 prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for
45 approved changes will be made in the lump sum contract price.

ITEM	ESTIMATED QUANTITY
Chain Link Fence Removal	40 L.F.
Excavation	122 C.Y.

Conc. Class 4000	23 C.Y.
St. Reinf. Bar	2,297 LB
Drain Pipe, 4 In. Dia.	35 L.F.
Underdrain Pipe, 4 In. Dia.	75 L.F.
Pipe Supports	3 EACH
Pipe Saddle	1 EACH

Measurement of this work includes hauling; excavating; removing unsuitable materials; disposal; subgrade preparation; construction of the concrete slab and walls; furnishing and constructing a drainage system complete with wall and floor drains, and new drywell; furnishing timber and lumber, storage and handling per Section 6-04.3; permitting and installing lighting, ventilation and hangers; and other incidentals associated with constructing the booster pump station building to the elevations and dimensions in accordance with these Special Provisions and Contract Plans.

Payment

Payment will be made in accordance with Section 1-04.1 for “Pump House Building” per lump sum.

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

7-09, WATER MAINS

7-09.2 Materials

(*****)

Section 7-09.2 is supplemented with the following:

Materials shall meet the requirements of the following sections:

Crushed Surfacing Base Course*	9-03.9(3)
Ductile Iron Pipe	9-30.1
Fittings	9-30.2

*Crushed Surfacing Base Course shall be used in lieu of Gravel Backfill for Pipe Zone Bedding and Pipe Zone Backfill as shown in the Standard Plans; and in lieu of Imported Backfill and Backfill Material as shown in the Contract Plans.

The quantities of appurtenances and equipment are listed in the Contract Plans.

The Contractor shall submit 4 copies of all required information in accordance with Section 1-06.1. Submit manufacturer’s information and technical data for all piping, fittings, pipe supports, coating systems and associated materials; dimensioned drawings of all non-standard fittings and fabricated bends; if applicable, proposed modifications to the layout; description of the procedures and materials to be used for disinfection; and color samples for exterior coatings per Section 1-06.1.

If the Contractor proposes modifications to the layout shown in the Plans, the Contractor must submit detailed shop drawings of all piping that accurately shows the following:

1. Structures and control points.
2. Locations of all new structures, pipe, valves, couplings, fittings, vaults, cleanouts, tanks,

- 1 mechanical pipe restraints and thrust blocks, pipe supports, pipe anchorages, pipe
 2 penetrations through walls and floors; and restrained joint pipe.
 3 3. Drawing scale shall be not less than ¼-inch equals one foot.
 4 4. Drawings shall be dimensioned to show relationship between structures, piping and
 5 appurtenances along with specific locations of new piping, methods of connection, and
 6 methods of pipe penetrations.
 7

8 The information required for the disinfection shall include details such as: 1) how the solution will be
 9 added; 2) concentration of the solution; 3) solution contact time; 4) how residual chlorine will be
 10 measured; 5) where samples will be collected for residual chlorine and residual bacteriological analyses;
 11 6) when samples will be collected; and 7) disposal method of the chlorine solution used for disinfection.
 12

13 All pipe materials and construction methods shall meet the following standards:

14	ANSI A21.4/AWWA C104	American National Standard for Cement-Mortar Lining for Ductile Iron Pipe and Fittings for Water
15		
16	ANSI/AWWA C105/A21.5	American National Standard for Polyethylene Encasement for Ductile Iron Pipe Systems
17		
18	ANSI/AWWA C110/A21.10	American National Standard for Ductile Iron and Gray-Iron Fittings, 3-Inch Through 48-Inch, for Water
19		
20	ANSI/AWWA C111/A21.11	American National Standard for Rubber-Gasket Joints for Ductile Iron Pressure Pipes and Fittings
21		
22	ANSI/AWWA C115/A21.15	American National Standard for Flanged Ductile-Iron Pipe with Ductile Iron or Gray-Iron Threaded Flanges
23		
24	ANSI/AWWA C116/A21.16	American National Standard for Protective Fusion-Bonded Epoxy Coatings for the Interior and Exterior Surfaces of Ductile Iron and Gray-Iron Fittings for Water Supply Service
25		
26	ANSI//AWWA C150/A21.50	American National Standard for the Thickness Design of Ductile Iron Pipe
27		
28	ANSI/AWWA C151/A21.51	American National Standard for Ductile Iron Pipe, Centrifugally Cast, for Water
29		
30	ANSI/AWWA C153/A21.53	American National Standard for Ductile Iron Compact Fittings for Water Service
31		
32	ANSI/AWWA C600	Installation of Ductile Iron Water Mains and Their Appurtenances
33		
34	ANSI/AWWA C606	Grooved and Shouldered Joints
35		
36	AWWA C651	Disinfecting Water Mains
37		
38	AWWA M41	Ductile Iron Pipe and Fittings Manual of Water Supply Practices
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		

The Contractor shall provide all necessary pipe, fittings, pipe stools, flanges, pipe supports, valves, piping related materials, and appurtenances, whether or not shown on the Plans, which are needed to provide a functional pumping system to meet these Specifications and the AWWA Standards.

The Contractor shall ensure that fittings and pipe of the proper class and strength are used. All pipe sizes as shown on the Plans and as specified in these Provisions refer to “nominal” diameter, unless otherwise indicated.

The piping systems shown in the Plans indicate the approximate horizontal and vertical configuration required. The Contractor shall determine the exact layout of piping, fittings and joints necessary to fit actual field conditions. Whether shown or not, the pipe shall be installed with unions, couplings and flanged coupling adaptors as required to allow placement of the pipe and removal of valves and equipment.

Expansion joints shall be the type recommended by the manufacturer of each piping system. Each pipe system, including fittings and couplers, shall be provided by a single manufacturer.

The polyethylene encasement material for all ductile iron and cast iron pipe shall conform to the most current edition of AWWA C105 and ANSI 21.5.

Disinfecting Materials

The Contractor shall use a potable water source approved by the Engineer, and prepare chlorine disinfection solutions conforming to AWWA B300. Solution concentrations shall conform to AWWA Standards. The Contractor shall neutralize chlorine solutions using an appropriate grade and dosage of sodium thiosulfate or an approved equal.

7-09.3 Construction Requirements

(*****)

Section 7-09.3 is supplemented with the following:

The Contractor shall be responsible for locating, excavating, and verifying all existing piping, appurtenances and points of connection needed to construct the work.

7-09.3(12) General Pipe Installation

(*****)

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

Mechanical or push-on joints shall be used. The installation of all joints shall conform to the requirements of AWWA C600. Whenever flange connections are specified, the flange and fittings shall conform to the requirements for AWWA C100/ANSI A21.10 for 250-pound pressure ratings.

7-09.3(13) Handling of Pipe

(*****)

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

Ductile iron pipe and fitting shall be handled and installed in accordance with AWWA M41.

1
2 **7-09.3(20) Detectable Marking Tape**

3 (*****)

4 Section 7-09.3(20) is supplemented to include the following:

5
6 Detectable marking tape shall be installed over the water lines.

7
8 **7-09.3(21) Concrete Thrust Blocking**

9 (*****)

10 Section 7-09.3(21) is supplemented to include the following:

11
12 Joint restraint shall be constructed where the pipe line terminates; changes alignment when a tee,
13 cross, bend or similar fitting is installed; or as shown in the Plans. If poured-in-place concrete thrust
14 blocks are used, all pipe and fittings exposed to concrete shall be double wrapped with 4-mil
15 polyethylene film prior to placement of the concrete. Unless shown on the Plans, restrained joints
16 shall be mechanical or push-on types per Section 9-30.2(6).

17
18 **7-09.3(23) Hydrostatic Pressure Test**

19 (*****)

20 Section 7-09.3(23) is supplemented to include the following:

21
22 Remove from the system any equipment that may be damaged by test pressure. Perform pressure
23 testing prior to concealing, insulating or painting the piping.

24
25 The Contractor shall provide all test equipment including test pumps, gauges, volumetric measuring
26 equipment, fittings, and other required equipment. Pressure gauges used shall be graduated in
27 increments not greater than 5 psi and have a range of twice the test pressure. Use only gauges and
28 instruments that are in current calibration.

29
30 Temporary blind flanges shall be used to seal the ends of the pipes required for testing.

31
32 Leakage for a newly installed main is determined as follows:

33
34
$$L = \frac{SD(P)^{1/2}}{133,200}$$

35
36 Where: L=allowage leakage, gallons/hour

37 D=nominal diameter of the pipe in inches

38 P=test pressure during the test (psi)*

39 S=gross length of pipe tested including joints, feet

40
41 *Use test pressure of 150 psi for the conveyance line from the new well, and 200 psi for others at the
42 pump station.

43
44 The duration of each leakage test shall be 2 hours, and the main shall be subjected to the constant
45 test pressure as defined above during the test. The test pump shall be valved to ensure that constant
46 test pressure is maintained throughout the test and all excess water returned to the supply tank.

47
48 If the pressure decreases below the required test pressure during the 2-hour period, the preceding
49 portion of that test will be declared void. Cracked or defective pipe, gaskets, mechanical joints,
50 fittings or valves discovered as a consequence of the hydrostatic tests shall be removed and replaced

1 with sound material at the Contractor's expense. The test shall then be repeated until the results are
2 satisfactory.

3
4 **7-09.3(24) Disinfection of Water Mains**

5 (*****)

6 Section 7-09.3(24) is supplemented to include the following:

7
8 Remove foreign materials including dirt, grease and other matter. Clean by flushing the interior of
9 the pipe. Upon completion of flushing, completely drain systems at low points; remove, clean and
10 replace all strainer baskets; and refill systems.

11
12 The Contractor shall disinfect facilities per AWWA C651. The chlorine disinfection solution shall
13 have a free chlorine residual of 25 mg/L at the time it is prepared. The Contractor may use any of
14 the methods described in the AWWA Standards.

15
16 The Contractor shall neutralize the chlorine disinfectant solution prior to discharge. Neutralization
17 shall be achieved by adding the appropriate grade and dosage of sodium thiosulfate to obtain a
18 chlorine residual of 1 mg/L or less; or an approved chemical neutralization method equal. The
19 dosage of sodium thiosulfate shall be minimized and determined on the free chlorine residual
20 measured in the chlorine solution. The Contractor shall accurately determine the chlorine residual,
21 measure the quantity of chemicals to add to the solution, and thoroughly mix the chemicals into the
22 solution prior to discharge.

23
24 The County will collect and analyze an appropriate number of samples for coliform organisms (total
25 coliform) after disinfection has been satisfactorily completed. The Contractor shall repeat the
26 disinfection process if coliform organisms are detected.

27
28 **7-09.5 Payment**

29 (*****)

30 Section 7-09.5 is supplemented with the following:

31
32 "Ductile Iron Pipe for Water Main __ In. Diam.", per linear foot.

33
34 The unit Contract price per linear foot for each size of "Ductile Iron Pipe for Water Main __In. Diam."
35 shall be full pay for all Work to furnish, connect and complete the installation of the water main including
36 but not limited to trench excavation, bedding, laying and jointing pipe and fittings, backfilling, concrete
37 thrust blocking, tracer wire, tracer tape, testing, flushing, disinfecting the pipeline and cleanup.

38
39 **7-12, VALVES FOR WATER MAINS**

40 (*****)

41 **7-12.1 Description**

42 Section 7-12.1 is supplemented with the following:

43
44 This Work shall consist of furnishing, constructing, and testing valves, lines and appurtenances as
45 specified in accordance with the Contract Plans.

46
47 **7-12.2 Materials**

48 (*****)

49 Section 7-12.2 is supplemented with the following:

1 Materials shall meet the requirements of the following sections:

2	Insertion Gate Valve Assembly	9-30.3
3	Check Valves	9-30.3
4	Pump Column Check Valves	9-30.3
5	Surge Anticipating Valves	9-30.3
6	Air Release Valves	9-30.3
7	Ball Valves	9-30.3
8	Pressure Gages	9-30.3
9	Flowmeters	9-30.3

10
11 All valves shall be flanged with the exception of 1-inch and 2-inch ball valves.

12
13 All valves of the same type shall be from a single manufacturer.

14
15 All valve materials shall be compatible with the connecting pipe material. Wetted parts shall be
16 fabricated of approved corrosion resistant material. Alternatively, all exposed surfaces which will be in
17 contact with water, exclusive of flange faces, may be epoxy coated.

18
19 The Contractor shall submit 4 copies of all required information in accordance with Section 1-06. Submit
20 the manufacturer and model of the valves to be installed, demonstrating conformance with appropriate
21 standards and these specifications. Submittal data for the flowmeters shall include calibration data over
22 the full range of flow, and a manufacturer's parts list.

23
24 For the calibration data of the flowmeter, the flowmeter shall be calibrated as a unit connected in the same
25 manner as during operational service. Calibration shall be performed by the flowmeter manufacturer or
26 qualified independent testing laboratory. Equipment used for calibration shall be traceable to National
27 Institute of Standards and Technology, or other acceptable standards.

28 **7-12.3 Construction**

29 (***)

30 Section 7-12.3 is supplemented with the following:

31
32
33 Install all valves and lines in accordance with AWWA Standards and manufacturer's recommendations.

34
35 All valve body or operator shall be permanently marked with the word OPEN and an arrow indicating the
36 direction to open.

37
38 The Contractor shall provide and install all pipe supports, anchors, inserts, bolts, nuts, rods, washers,
39 structural attachments and expansion joints as shown in the Contract Plans or as needed to provide a
40 complete system of pipe support in accordance with applicable codes and standards, and manufacturer's
41 recommendations.

42
43 Where pipe transitions are required from one elevation to another, the Contractor shall field verify and
44 adjust the pipe and associated support system to provide a complete, safe and satisfactory installation.

45
46 All piping shall be rigidly supported and anchored so that there is no movement or visible sagging
47 between supports. Saddle supports shall be anchored to the floor. Anchorage shall be provided to resist
48 thrust due to changes in temperature, diameter, direction or dead ending.

49
50 With the piping system fully assembled and all pressure testing successfully completed, perform
51 acceptance testing in the presence of the Engineer. Acceptance testing shall consist of at least 3 cycles of

1 filling, discharging and draining the piping system to demonstrate that all components function as
2 intended under operating conditions. Each cycle shall include actuation of all valves.

3
4 The Contractor shall submit a manufacturer's parts list, and O&M manuals for the flowmeters.

5
6 **7-12.3(1) Installation of Valve Marker Post**

7 (*****)

8 Section 7-12.3 is supplemented with the following:

9
10 Provide a valve marker post for each underground valve located out of the asphalt area, or as shown
11 in the Contract Plans.

12
13 The exposed portion of the marker posts shall be painted with two coats of Preservative Brand No.
14 43-616 yellow enamel paint. Distance to referenced valve shall be to the nearest 0.5 foot, and shall
15 be clearly stenciled in black numerals two inches high.

16
17 **7-12.5 Payment**

18 Section 7-12.5 is supplemented with the following:

19
20 Payment will be made in accordance with Section 1-04.1 for each of the following Bid items that are
21 included in the Proposal:

- 22 "Gate Valve 3 In.", per each.
- 23 "Gate Valve 6 In.", per each.
- 24 "Check Valve 4 In.", per each.
- 25 "Check Valve 6 In.", per each.
- 26 "Insertion Gate Valve Assembly 10 In.", per each.
- 27 "Pump Column Check Valve 4 In.", per each.
- 28 "Surge Anticipating Valve 3 In.", per each.
- 29 "Air Release Valve", per each.
- 30 "Ball Valve 2 In.", per each.
- 31 "Pressure Gage", per each.
- 32 "Flowmeter 3 In.", per each.
- 33 "Flowmeter 6 In.", per each.

34
35
36 (*****)

37 **PITLESS UNIT SYSTEM**

38 **Description**

39
40 This Work shall consist of furnishing and constructing the complete assembled Pitless Unit System
41 including watertight and ventilated well cap, casing, lift-out bail, hold down hooks, lift-out pipe,
42 discharge body with support ring, spool with check valves, water sampling equipment, pressure
43 equalizing passages, seal, spool and power to the discharge face of the 4-inch spool as specified in
44 accordance with the Plans.

45
46 **Materials**

47
48 The Contractor shall provide the complete pitless unit including watertight and ventilated well cap,
49 casing, lift-out bail, hold down hooks, lift-out pipe, discharge body with support ring, spool with check

1 valves, pressure equalizing passages, betonite seal, piping, and other piping appurtenances which are
2 needed to provide a functional pitless unit system to meet these Contract Provisions.

3
4 The Contractor shall ensure that fittings and pipe of the proper class and strength are used. All pipe sizes
5 as shown on the Plans and as specified in these Provisions refer to “nominal” diameter, unless other wise
6 indicated.

7
8 The pitless unit system shown in the plans indicates the approximate horizontal and vertical configuration
9 required. The Contractor shall determine the exact layout of piping, fittings and joints necessary to fit
10 actual field conditions. Whether shown or not, the pitless unit shall be installed with unions, couplings
11 and flanged coupling adaptors as required to allow placement of the pipe and removal of valves and
12 equipment.

13
14 The Contractor is responsible for securing all required permits and certifications, following approval of
15 submittals per Section 1-6, and obtaining installation drawings, instructions and pertinent information
16 from the manufacturer needed for project completion.

17
18 The Contractor shall submit 4 copies of all required information in accordance with Section 1-06. Submit
19 the manufacturer name and model of the pitless unit to be installed, demonstrating conformance with
20 appropriate standards and these specifications. Submit detailed specifications with dimensioned drawings
21 of the system to be furnished by the manufacturer.

22
23 The pitless unit system shall conform to the applicable requirements of Water Systems Council PAS-
24 97(04), “WSC Performance Standards and Recommended Installation Procedures for Sanitary Water
25 Well Pitless Adaptors, Pitless Units and Well Cap”.

26 27 **1. Pitless Unit**

28
29 The pitless unit must conform to the Water Systems Council PAS-97(04); shall be an 8-inch I.D.
30 Industrial Pitless Unit, Model 4.5PS810WBWE24T4S by Baker Manufacturing Company, Monitor
31 Division, or approved equal. The complete pitless unit, including fittings, couplings and valves shall
32 be provided by a single manufacturer. The unit shall be factory assembled before shipping to the
33 site.

34 35 **2. Well Cap and Vent**

36
37 The well cap shall be heavy duty, watertight and ventilated.

38
39 The well cap shall be secured to the pitless casing with a compression gasket. The top of the cap can
40 be removed without affecting the sealed conduit or wiring. The well cap shall have a separate
41 protected downward facing stainless steel screened well vent with pipe nipple.

42
43 The well shall be secured with a heavy duty padlock or similar locking mechanism sufficient to
44 prevent unauthorized access to the well casing as approved by the Engineer.

45
46 Construction of the cap and well vent will be of heavy duty gray cast iron and painted enamel finish.

47 48 **3. Upper Casing**

49
50 The upper casing shall be factory assembled to the discharge body and the lift-out and hold down

1 mechanism shall be factory assembled to the spool.

2
3 The upper casing thickness shall conform to the Recommended Standards for Water Works and be
4 coated with rust protective coating.

5
6 The upper casing must provide a watertight connection from the discharge body to the well cap.

7
8 The discharge port center line shall be 3 ft below grade and the pitless upper casing shall extend 2 ft
9 above grade. See the plans for placement details.

10 11 **4. Spool**

12
13 The spool shall include a 4-inch NPT per ANSI B1.20.1 female drop pipe connection, and be
14 constructed of lead-free galvanized heavy duty gray cast iron with lead-free galvanized plating on
15 the wetted surface of over 0.010 inches thick.

16
17 The spool will have o-ring grooves machined into the spool retaining the o-rings when setting or
18 pulling the system.

19
20 The positive pressure o-ring seals shall be constructed of neoprene or equivalent.

21
22 The spool shall be designed to accommodate a sounding tube, water sampler, and NPT ports for
23 discharge pressure taps.

24
25 O-ring protection shall be provided to prevent the seals from dragging on the upper casing when the
26 pump is installed or removed.

27 28 **5. Discharge Body**

29
30 The discharge body shall be constructed of lead-free galvanized ductile iron.

31
32 The o-ring seat shall be designed to prevent crevice and galvanic corrosion. Dissimilar metals
33 should be avoided.

34
35 The discharge body shall be designed to be strong enough to prevent distortion due to vertical
36 movement of discharge pipe thereby allowing the spool to bind in the discharge body.

37
38 Minimum I.D. of the discharge body shall be equal to or greater than the I.D. of the well casing for
39 ease in well servicing.

40
41 Connections from the discharge body to the 4-inch ductile iron discharge pipe shall be per the
42 manufacturer's recommendations, either flanged or mechanical joint.

43 44 **6. Water Sampler**

45
46 The pitless unit shall include installation of a water sampler at the well head to allow instream flow
47 sampling.

48
49 The water sampler shall be contained within the outer well casing and well cap, or provide a self-
50 contained , heavy duty, locked housing to prevent tampering with the equipment.

1
2 The water sampler shall be designed for cold weather conditions to prevent water freezing within the
3 sampling tube.

4
5 Flow control at the water sampler discharge point shall be provided.
6

7. Sounding Tube

8
9 The pitless unit shall include installation of a 1-inch diameter PVC sounding tube at the well head
10 for water depth measurements.

11
12 The sounding tube shall be contained within the outer well casing and well cap for security.
13

8. Hold-Down, Lift-Out Mechanisms

14
15
16 The pitless unit spool shall have a hold-down mechanism factory assembled to the spool and capable
17 of preventing rotation of the pitless spool relative to the discharge body, at full rated locked rotor
18 torque of the submersible pump motor.

19
20 The spool shall have a factory assembled lift-out pipe and bail, capable of lifting the rated load per
21 manufacturer, to allow lifting a water filled drop pipe and pump out of the well for service.
22

23 Hold-down lift-out mechanism components shall be constructed of ductile iron with a corrosive
24 resistant coating.
25

9. Check Valves

26
27
28 Check valves shall be installed at the horizontal discharge ports in the removable spool of the pitless
29 unit.
30

31 Check valves shall be low pressure drop, self cleaning, swing type check valves with elastomer seal
32 at seat and constructed of corrosion resistant materials.
33

Construction Requirements

34
35
36 The Contractor shall be responsible for locating, excavating, and verifying all existing piping,
37 appurtenances and points of connection needed to construct the pitless unit system.
38

39 The pitless unit shall be installed per manufacturer's recommendations.
40

Measurement

41
42
43 Measurement of this work includes furnishing, transporting, permitting, storing and handling, assembling,
44 sealing, installing power, and constructing a complete pitless unit system compatible with the existing
45 drilled well in accordance with these Special Provisions and Contract Plans.
46

Payment

47
48
49 Payment will be made in accordance with Section 1-04.1 for the bid item "Pitless Unit System", per lump
50 sum.
51

1
2 (***)

3 **PUMPS**

4 **Description**

5
6 This Work shall consist of furnishing, constructing, testing and installing other work as needed of the
7 submersible vertical turbine pump for the new well (identified as P-01 in the Plans) and the two
8 centrifugal booster pumps (identified as P-02 and P-03 in the Plans) for the booster pump station. The
9 intake of the submersible turbine pump shall be set as shown in the Contract Plans. The work for the
10 submersible vertical turbine pump is from the motor at the bottom of the well to the pitless adaptor unit.

11 12 **Materials**

13
14 Materials shall meet the requirements of the following sections:

15	Pump Controls (Level Switches)	8-20.2
16	Variable Frequency Drive (Booster Pumps)	8-20.2

17
18 The Contractor shall submit 4 copies of all required information in accordance with Section 1-06. Submit
19 detailed information on the pumps (manufacturer, model, pump curves), motors, materials, testing, and
20 connections to be installed, demonstrating conformance with appropriate standards and these Special
21 Provisions.

22 23 **1. Submersible Turbine Well Pump**

24
25 The submersible turbine pump shall be installed inside the new well, and be a vertical, 2-stage, 10
26 HP, Model 6DHLC as manufactured by Goulds Pumps; or approved equal.

27 28 Operating Conditions

29 The pump shall be capable of the following conditions:

- 30 Design conditions: 350 US gpm
- 31 Design head: 73 ft (TDH)
- 32 Minimum pump efficiency of: 70%
- 33 Maximum allowable speed: 3600 RPM
- 34 Pump bowl setting: 65 ft bgs
- 35 Well diameter I.D.: 8-inches (nominal)

36 37 Bowl Assembly

38 The bowls shall be flanged type, constructed of close grained cast iron conforming to ASTM A48,
39 Class 30. They shall be free from sand holds, blowholes, or other faults and must be accurately
40 machined and fitted to close tolerances. They shall be capable of withstanding a hydrostatic pressure
41 equal to twice the pressure at rated flow or 1.5 times shut-off head, whichever is greater. The
42 intermediate bowls shall have enamel or epoxy lined waterways for maximum efficiency and wear
43 protection. All intermediate bowls shall be of identical design for interchangeability.

44
45 All the bowls shall be fitted with sleeve type bearings of bronze alloy C89835. A discharge bowl
46 shall be used to connect bowl assembly to the discharge pipe. An extra long bronze bearing packed
47 with non-soluble grease shall be provided in the top bowl and extended into the discharge bowl. The
48 bearing shall have a threaded cast iron cap or plug at the top to protect the bearing from abrasives.
49 The hub of the discharge bowl should be such that the bearing can be easily removed through the top

1 of the hub. A thrust ring shall be above the top impeller to prevent excessive vertical upthrust.

2
3 Impellers

4 The impellers shall be constructed from ASTM B584 Silicon Bronze and shall be the enclosed type.
5 They shall be free from defects and must be accurately cast, machined, balanced and filed for
6 optimum performance and minimum vibration. Impellers shall be balanced to grade G6.3 of ISO
7 1940 as minimum. They shall be securely fastened to the bowl shaft with taper locks of C1018.

8
9 Motor Adapter

10 The inlet motor adapter shall be of ASTM A536 Grade 60-40-18 ductile iron and shall contain an
11 extra long bronze bearing. The inlet area shall have a net open area of at least four times the eye of
12 the impeller and shall be protected with a type 304 stainless steel screen. The openings on the screen
13 shall not be more than 75% of the minimum opening of the water passage through the bowl or the
14 impeller.

15
16 Shaft

17 The pump shaft shall be of ASTM 582 type 416 stainless steel. It shall be precision ground and
18 polished with surface finish better than 40 RMS.

19
20 Coupling

21 The shaft coupling shall be of stainless steel and capable of transmitting the total torque and total
22 thrust of the bowl assembly in either direction of rotation.

23
24 Pump Column

25 The pump column shall be ASTM A53 grade B standard weight steel pipe connected by threaded
26 sleeve type steel coupling. The ends of the pipe shall have ANSI B1.20.1 standard tapered pipe
27 threads. Inside diameter of the pipe shall be such that the head losses shall not be over 5 ft per 100
28 ft of pipe.

29
30 Submersible Cable

31 Pump cable shall be sized to limit the voltage drop to no more than 5%. The cable shall have three
32 separate conductors, a ground, and be included in a single continuous jacketed assembly. The
33 insulation shall be water and oil resistant, and suitable for continuous immersion. The cable should
34 be the length of the discharge pipe plus adequate length to extend from the surface plate to the
35 electrical controller. The cable should be adequately secured to the discharge pipe by plastic ties, or
36 other non-metallic means, at 10-foot intervals.

37
38 Submersible Electric Motor

39 The motor shall be a heavy duty canned (or wet wound) type of NEMA design, capable of operating
40 at 3600 RPM, with outside diameter not to exceed 6 inches. The motor shall be capable of
41 continuous operation under water at the specified conditions outlined above. A suitable thrust
42 bearing shall be incorporated in the lower end of the motor adequate to receive the entire hydraulic
43 thrust load of the pump unit plus the weight of the rotating parts regardless of the direction of
44 rotation. The motor shall have a 1.15 service factor, and suitable for use on 240 volt, 3-phase, 60 Hz
45 electric service.

46
47 The motor leads shall be of sufficient length so that they may be spliced above the bowl assembly
48 and the leads shall be protected by a type 304 stainless steel cable guard held in place with stainless
49 steel banding. As the motor lead exit the top of the cable guard, it shall be properly protected to
50 prevent damaging or cutting the lead by the cable guard material.

2. Centrifugal Booster Pumps

The Contractor shall furnish two identical pumps to be installed inside the pump house. The pumps shall be horizontal frame-mounted, end-suction centrifugal pumps, Model 3756 M&L-Group (3x4-10), as manufactured by Gould Pumps; or approved equal. All pump units shall be of one manufacturer and provided complete, including electric motor drive.

Operating Conditions

The pump shall be capable of the following conditions:

Duty Point 1: 600 US gpm at 289 ft (TDH)

Duty Point 2: 350 US gpm at 245 ft (TDH)

Duty Point 3: 300 US gpm at 239 ft (TDH)

Minimum pump efficiency of: 67% at Duty Point 3

Maximum allowable speed: 3600 RPM

Maximum Total Head at Shutoff: 337 ft

Maximum Impeller Diameter: 8-3/4 inches

Pump Motor: 75 HP

Pump Suction Diameter: 4-inches

Pump Discharge Diameter: 3-inches

Pump Casing

The pump casing shall be spiral volute type, back pull-out design with ANSI Class 150 flat faced flanged suction and discharge connections, constructed of ASTM A48 CL30 Cast Iron. The pump discharge nozzle shall be tangentially oriented. The complete pump unit shall be supported by the power frame. A pump casing drain shall be provided with a pipe plug.

Wear Ring

The pump shall have a replaceable casing and seal house wear ring of Lead Free Bismuth Bronze shall be provided and held securely by means of interference fits.

Pump Impeller

The pump impeller shall be of enclosed design, constructed of ASTM B584 Lead Free Sil-Brass material and key driven. A stainless steel bolt and washer shall provide positive attachment of the impeller to the motor shaft.

Seal Housing and Motor Adaptor

The seal housing and motor adaptor shall be of one-piece design, constructed of ASTM A48 CL20 Cast Iron. Registered mating fits to the pump casing and power frame shall maintain positive unit alignment and support. Sealing of casing pressure shall be maintained by an O-ring of BUNA-N, EPR, or viton material. Motor and casing connection shall be held securely by means of a grade 5, high strength hex cap screws. A bottom drainage port shall be provided to allow condensation or seal leakage to drain and not be retained within the adaptor.

Mechanical Seal

The pump shaft seal shall be a John Crane Type 21 mechanical seal or equal constructed of Sil-Carbide faces and viton elastomers.

Shaft Seal

The pump shaft seal shall be constructed of ANSI type 303 stainless steel and of the hook type design, locked in place by the impeller without necessity of other mechanical locking devices.

1 Pump Power Frame Assembly

2 The pump shall be supported by a foot mounted ASTM A48 CL20 Cast Iron power frame which
3 carries all thrust and radial loads imposed by the pumps with a minimum B-10 life of 50,000 hours
4 at an operating speed of 1750 FL RPM.

5
6 The bearing shall be ball-type, grease lubricated thrust and radial bearings with provision for
7 periodic re-greasing. The outboard bearing shall carry all pump thrust load and be locked in place
8 on the pump shaft by means of a bearing locknut and locking washer.

9
10 The pump shaft shall be constructed of ASTM A108 Carbon Steel with bearing shoulder fits.

11
12 Inboard and outboard ball bearings shall be protected from entry of pumpage, washdown water or
13 grit by means of BUNA-N lip seals. The inboard bearing end shall be further protected from
14 contaminants by means of a BUNA-N rubber deflector ring.

15
16 The shaft and bearing assembly shall be locked in place by an outboard bearing cover constructed of
17 ASTM A48 CL20 Cast Iron.

18
19 Bedplate

20 A rigid, channel type carbon steel bedplate shall be provided which maintains support and alignment
21 of the complete pump and drive motor assembly. The unit bedplate shall be suitable for anchor bolt
22 floor mounting and include provision for grouting in place by the Contractor.

23
24 Drive Coupling

25 A spacer type coupling allowing utilization of back pullout maintenance feature shall be provided for
26 pump to drive motor connection. The coupling shall be key driven type T.B. Woods type "SC", or
27 approved equal.

28
29 Coupling Guard

30 All rotating components of the drive assembly shall be protected by means of a formed metal
31 coupling guard designed to OSHA specifications and bolted in place on the unit bedplate.

32
33 Electric Motor

34 The pump motor shall be non-overloading of NEMA standard design, T-frame suitable for
35 horizontal mounting and coupling connection to the pump unit described above. The motor rating
36 shall be 75 HP, 3600 RPM, 3-phase, 60 Hz, 240 volts, totally enclosed, fan tooled (TEFC) enclosure,
37 1.15 service factor, high efficiency.

38
39 Manufacturer Testing

40 Each pump shall be hydrostatically tested by the manufacturer in accordance with Hydraulic Institute
41 Standards at 250 psig. Production performance testing will be conducted on each pump unit. Head
42 at three operating points (70% of BEP, BEP, and 120% of BEP) will be measured at design speed to
43 verify performance.

44
45 **Construction**

46
47 **1. Pumps, Motors and Drives**

48
49 The Contractor shall install pumps, motors, and drives in accordance with the manufacturer's
50 instructions and as shown in the Contract Plans. Installation shall include all piping and wiring from
51 motors to the control panel.

1
2 **2. Disinfection of Equipment and Well**
3

4 All equipment and materials to be installed permanently in the well shall be disinfected just prior to
5 installation. This shall be done by spraying all equipment and materials with a chlorine solution
6 with a residual of not less than 200 mg/l per AWWA C654-97.
7

8 After all permanent equipment is installed, the well shall be disinfected per AWWA C654-97 by:

- 9 1. Chlorinating the water in the well casing throughout the well depth to provide a chlorine
10 residual of 50 mg/l.
11 2. Circulating the chlorinated water within the well casing and pump column.
12 3. Pumping the well to remove the chlorinated water at a rate such that the volume pumped shall
13 be equal to the volume of water in the well.
14

15 **3. Acceptance Testing**
16

17 After power is provided, the Contractor shall test pumps in-place to demonstrate their ability to
18 operate at the design flow rate and dynamic head. Each pumping unit shall be given a running field
19 test in the presence of the Engineer for 2 hours. Each pumping unit shall be operated at its rated
20 capacity or such other point on its head-capacity curve selected by the Engineer. The Contractor
21 shall provide an accurate and acceptable method of measuring the discharge flow and the pressure
22 just downstream of the pumps. Tests shall assure that the units and appurtenances have been
23 installed correctly; that there is no objectionable heating, vibration, or noise from any parts; and that
24 all manual and automatic controls function properly. If any deficiencies are revealed, the Contractor
25 shall correct such deficiencies and re-conduct tests.
26

27 The Contractor shall obtain and furnish all spare parts from manufacturers' recommended spare parts
28 list.
29

30 The Contractor shall obtain and furnish the operation and maintenance manuals for the pumps,
31 motors and VFD.
32

33 **Measurement**
34

35 Measurement of this work includes furnishing and constructing pumps completed and accepted in
36 accordance with the Special Provisions and Contract Plans.
37

38 **Payment**
39

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

- 42 "Submersible Turbine Well Pump", per lump sum.
43 "Centrifugal Booster Pumps", per lump sum.
44

45 The unit Contract price per each for the pump specified shall be full pay for all Work to furnish and install
46 the pump complete in place, including excavating, floor penetrations, pads, jointing, disinfecting, pump
47 testing, providing power, and related work per the pump manufacturer's instructions, Special Provisions
48 and Contract Plans.
49

50
51 (*****)

1 **CHEMICAL INJECTION SYSTEM**

2 **Description**

3
4 This Work shall consist of furnishing, constructing, testing, and pertinent work for a chemical injection
5 system as specified in accordance with the Contract Plans. The chemical injection system shall be wall
6 mounted, furnished with chlorine solution tank within a spill pallet, furnished with suitable driver and
7 specified accessories, and powered.

8
9 **Materials**

10
11 The Contractor shall submit 4 copies of all required information in accordance with Section 1-06. Submit
12 shop drawings, electrical details with connection schematics, catalog data of specific models and parts,
13 and operation and maintenance manual, demonstrating conformance with appropriate standards and these
14 specifications. Submit detailed specifications with dimensioned drawings of the system to be furnished
15 by the manufacturer.

16
17 **1. Solenoid Diaphragm Metering Pump**

18
19 Provide two metering pumps. One pump shall be installed and the other held as a spare. The pumps
20 shall be a microprocessor-controlled, simplex, solenoid-driven, reciprocating, mechanically actuated
21 diaphragm type. The pumps shall be Model BT5A-1008NPE260UD010000 as manufactured by
22 ProMinent Fluid Controls; or approved equal. The housing shall be NEMA 4X.

23
24 Operating Conditions

25 The pump shall be capable of the following conditions:

- 26 Capacity at Maximum Backpressure: 1.8 gph at 145 psig, 0.63 ml.stroke
- 27 Capacity at ½ Maximum Backpressure: 2.19 gph at 46 psig, 0.76 ml/stroke
- 28 Pre-Primed Suction Lift: 19.6 ft
- 29 Maximum Stroking Rate: 180 strokes/min
- 30 Minimum Flow Rate: 0.6 gph

31
32 Pump Controls

33 Stroke length control shall be manually adjusted between 100% and 0% with an adjusting knob on
34 the pump control face.

35
36 The injection system is controlled by the flowmeter. Stroke frequency control shall be manually
37 adjusted in 10% increments by a multifunction switch. The metering pump shall be capable of
38 receiving a pulse input by an optional external control cable such that one pulse gives one pump
39 stroke. The metering pump shall be capable of remote ON-OFF operation using the PAUSE
40 function by a voltage-free contact relay through an optional control cable.

41
42 The universal control cable for pump control shall be part number 1001302 as manufactured by
43 ProMinent Fluid Controls; or approved equal.

44
45 Pump Diaphragm

46 The pump diaphragm shall be nylon reinforced EPDM (ethylene propylene) with PTFE-faced
47 (polytetrafluoroethylene) fluid contact surface. An elastomer shaft wiper seal shall prevent
48 contamination of the solenoid if the primary diaphragm fails.

49
50 Liquid End

1 The liquid end shall be Plexiglass (acrylic) with built coarse valve and needle valve for air bleed,
2 manually adjusted for continuous degassing of process fluid and self-priming against pressure. The
3 suction and discharge valve shall be PVC with double ball check design.

4
5 The liquid end shall be physically separated from the drive unit by back plate with weep hold to
6 create an air gap.

7 8 Power Supply

9 The power supply shall be 200-230 VAC, 60 Hz, single phase. The microprocessor is to
10 automatically compensate for supply voltage variations within 15% of the rated voltage such that
11 frequency of the pump remains constant.

12 13 Warranty

14 The manufacturer shall provide a two year warranty on the pump drive and an one year warranty on
15 the pump liquid end, including diaphragm and O-rings. The pump shall be fully tested to meet rated
16 flow and pressure by the manufacturer.

17 18 **2. System Accessories**

19 20 Mounting Package

21 A portable mounting package shall be provided for each pump. The package shall contain:

- 22 PVC piping
- 23 PVC ball valves with Viton seals
- 24 Clear PVC calibration column with FNPT fittings top and bottom
- 25 100 mL calibration column
- 26 PVC in-line, adjustable-pressure, diaphragm-type pressure relief valve
- 27 PVC adjustable-pressure, diaphragm-type back pressure or anti-siphon valve
- 28 Stainless steel, 2-inch pressure gage with isolator
- 29 Fifteen feet of PVC tubing

30
31 The mounting package shall be Model S124101001200 as manufactured by prominent Fluid
32 Controls; or approved equal.

33 34 Injection Lance

35 An injection lance made of PVC shall be provided with the pump. The injection lance shall be
36 Model 809708 as manufactured by ProMinent Fluid Controls; or approved equal.

37 38 Control Cable

39 A universal control cable with 4 pole round plastic connector and 5-wire cable with loose ends shall
40 be provided with each pump.

41 42 Chlorine Solution Tank

43 A 66-gallon, UV-stabilized, polyethylene tank shall be provided. The tank shall be Part Number
44 791996 as manufactured by ProMinent Fluid Contorls; or approved equal.

45 46 Sediment Stirrer

47 An electric sediment stirrer shall be mounted to the tank. The stirrer shall contain:

- 48 1. Motor – 1/20 HP, 1550 or 1725 RPM, 115 VAC, 60 Hz, 1phl, TEFC, 8' type SJ power cord,
49 and no ON-OFF switch.
- 50 2. Shaft – 316 stainless steel shaft and impeller (epoxy coated).
- 51 3. Mounting – Four hole mounting flange with bolt holes set at 5° angle for mounting directly

- 1 on the top of tank.
2 4. Accessories – One-inch diameter PVC metering-pump-suction pipe with bulkhead fitting for
3 mounting on the top of tank.
4

5 The stirrer shall be Part Number 7818589 as manufactured by ProMinent Fluid Controls; or
6 approved equal.
7

8 Float Switch

9 A two-stage float switch compatible with the chemical metering pump shall be provided for
10 monitoring tank level and installed in the chlorine solution tank.
11

12 Chlorine Solution

13 The Contractor shall supply one month supply of 3% sodium hypochlorite solution for use with the
14 chlorine injection system. Commercially available solutions shall be used if possible. Dilution of
15 commercially available solutions shall be made with potable or better quality, low (less than 1 mg/l)
16 chlorine demand water.
17

18 **Construction Requirements**

19
20 The Contractor shall install the chemical injection system in accordance with the manufacturer's
21 recommendations. Installation shall include all piping, tubing, chemical tank, portable stand, and all
22 components of the portable stand.
23

24 After power is provided, the Contractor shall test the chemical injection system to demonstrate the ability
25 to operate at the predicted operating conditions or such point selected by the Engineer. The Contractor
26 shall provide an accurate and acceptable method of measuring the discharge flow. Tests shall assure that
27 the unit and appurtenances have been installed correctly; that there is no objectionable heating, vibration
28 or noise from any parts; and that all manual and automatic controls function properly. If any deficiencies
29 are revealed during any tests, the Contractor shall correct such deficiencies and re-conduct tests.
30

31 The Contractor shall obtain and furnish all spare parts from manufacturers' recommended spare parts list.
32

33 The Contractor shall obtain and furnish the operation and maintenance manual for the chlorine injection
34 pump.
35

36 **Measurement**

37
38 Measurement of this work includes furnishing and constructing a chemical injection system completed
39 and accepted in accordance with the Special Provisions and Contract Plans.
40

41 **Payment**

42
43 Payment will be made in accordance with Section 1-04.1 for the bid item "Chemical Injection System",
44 per Lump Sum. The unit contract price shall be full pay for all work to furnish, transport, store, install,
45 provide power, test, and perform all work to that effort to complete the chemical injection system.
46
47

48 **DIVISION 8** 49 **MISCELLANEOUS CONSTRUCTION** 50

1 **8-01, EROSION CONTROL AND WATER POLLUTION CONTROL**

2 **8-01.3 Construction**

3 (*****)

4 Section 8-01.3 is supplemented with the following:

5
6 **8-01.3(2)B Seeding and Fertilizing**

7 (*****)

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

9
10 The seed mix for roadside shall be applied at the rate of 120 lb per acre. The mixture shall be per
11 Table 4.3 Low –Growing Turf Seed Mix or Table 4.6 Meadow Seed Mix from Washington State
12 Ecology’s “Stormwater Management Manual for Western Washington, 2005”.

Grass Type	% by Weight	% Purity	% Germination
Low Growing Turf Mix			
Dwarf tall fescue Festuca arundinacea var.	45	98	90
Dwarf perennial rye (Barclay) Lolium perenne var. barclay	30	98	90
Red fescue Festuca rubra	20	98	90
Colonial bentgrass Agrostis tenuis	5	98	90
Meadow Mix			
Redtop or Oregon bentgrass Agrostis alba or Agrostis oregonensis	20	92	85
Red fescue Festuca rubra	20	98	90
White dutch clover Trifolium repens	10	98	90

14
15 **8-01.3(9)D Inlet Protection**

16 (*****)

17 Section 8-01.3(9)D is supplemented to include the following:

18
19 Inlet protection shall be provided for two existing type 1L catch basins located southerly of the
20 project area.

21
22 **8-12, CHAIN LINK FENCE AND WIRE FENCE**

23 **8-12.3 Construction**

24 (*****)

25 Section 8-12.3 is supplemented with the following:

26
27 The bottom edge of the fabric shall be knuckled selvage and the top edge shall be twisted selvage.

28
29 **8-20, ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL**

30 **8-20.1 Description**

31 (*****)

1 Section 8-20.1 is supplemented with the provisions in Appendix E.

2
3 This Work shall consist of furnishing and constructing heating and ventilation, and control system for an
4 operable well, booster pump station, and chemical injection system as specified in accordance with the
5 Contract Plans.

6 **8-20.2 Materials**

7 (*****)

8 Section 8-20.2 is supplemented with the provisions in Appendix E.

9 **8-20.3 Construction Requirements**

10 (*****)

11 Section 8-20.3 is supplemented with the provisions in Appendix E.

12
13 The Contractor shall use a shared trench with the 6” water supply line in the U.S. Highway 12 right of
14 way. The shared trench shall be as shown in the Contract Plans with a horizontal separation of 6” (min.),
15 12” (min.) vertical separation, and 24” (min.) cover.

16 **8-20.4 Measurement**

17 (*****)

18 Section 8-20.4 is supplemented with the following:

19
20 Measurement will be for the sum total of all items for a complete system to be furnished and installed to
21 be compatible with the existing water control system. The Contractor is responsible for securing all
22 required permits and certifications. Provide all items shown in these bid documents and all incidentals
23 required for project completion.

24 **8-20.5 Payment**

25 (*****)

26 Section 8-20.5 is supplemented with the following:

27
28 Payment will be made in accordance with Section 1-04.1 for each of the following bid items:

29 “Heating and Ventilation”, per lump sum.

30 “Electrical”, per lump sum.

31
32 No additional compensation will be allowed.

33
34 (*****)

35 **PROJECT SIGN**

36 **Description**

37
38 This Work shall consist of furnishing and constructing a project sign to contain the following information:

- 39 • Name of the Project – LCWD#1 Phase 2 Water System Improvements
- 40 • Lead Agency Name – LCWD#1 and Lewis County Public Works
- 41 • Funding Partners – State CDBG and ARRA
- 42 • Logo – ARRA logo

43 **Materials**

1
2 The sign shall be at least 30" x 36" in size with 3-inch or larger black lettering on a white background.
3 Logos shall be at least 8" in height.

4
5 The ARRA logo can be obtained from <http://www.recovery.gov>; or by writing to the EPA Region 10
6 Office, Mail Code OMP-145, 1200 Sixth Avenue, Suite 900, Seattle, WA 98101.

7
8 All signing materials and fabrication incorporated into the project sign shall meet the requirements of the
9 various applicable sections of these Contract Provisions.

10
11 The Contractor shall prepare and submit a paper layout for approval before fabrication.

12 13 **Construction**

14
15 The sign shall be ground mounted on two pressure treated 4x4 posts per WSDOT Standard Plan G-1 and
16 G-4a at the beginning of the Hampton driveway to the proposed pump station and outside of the U.S.
17 Highway 12 right-of-way.

18 19 **Measurement**

20
21 The project sign will be measured per each for each project sign constructed and accepted.

22 23 **Payment**

24
25 Payment for the project sign shall be included in the lump sum bid item "Mobilization".
26
27

28 **DIVISION 9** 29 **MATERIALS** 30

31 **9-29, ILLUMINATION, SIGNAL ELECTRICAL**

32 (*****)

33 Section 9-29 is supplemented with the provisions shown in Appendix E.
34

35 **9-30, WATER DISTRIBUTION MATERIALS**

36 **9-30.1 Pipe**

37 (*****)

38 Section 9-30.1 is supplemented with the following:
39

40 **9-30.1(1) Ductile Iron Pipe**

41 (*****)

42 Section 9-30.1(1) is supplemented to include the following:
43

44 Ductile iron pipe shall conform to the requirements of AWWA C151 with cement mortar lining
45 conforming to the requirements of AWWA C104/ANSI A24.1. Polyethylene encasement shall be
46 installed for all ductile iron pipe in strict conformance to the methods described in the most current
47 editions of AWWA C105/ANSI A21.5 and the Ductile Iron Pipe Research Association's "*A Guide*
48 *for the Installation of Ductile Iron Pipe*".

1
2 Ductile iron Class 52 pipe shall be used.

3
4 Pipe shall be coated with a fusion-bonded epoxy coating in accordance with AWWA C116/ANSI
5 A21.16. Exterior surfaces shall be prepared, coated, inspected and repaired in accordance with
6 AWWA C116, and the manufacturer's recommendations. The coating shall have a minimum
7 thickness as per the manufacturer's recommendation. Interior surfaces shall be cement mortar lined
8 in accordance with AWWA C104.

9
10 Pipes located within the pump house shall be painted accordingly:

11 Supply (Raw) Water - Aqua

12 Finished Water – Dark Blue

13 Backwash Waste (branch line to waste drain) – Light Brown

14 Chlorine Line (do not paint unions or valves) - Yellow

15
16 **9-30.2 Fittings**

17 (*****)

18 Section 9-30.2 is supplemented with the following:

19
20 **9-30.2(1) Ductile Iron Pipe**

21 (*****)

22 Section 9-30.2(1) is supplemented to include the following:

23
24 Fittings shall be a minimum of 250 pounds pressure rating, mechanical joint or all bell, lined or
25 unlined, either cast iron or ductile iron, unless otherwise specified. All fittings shall conform to the
26 requirements of ANSI/AWWA C110/A21.10. Rubber gasket joints for ductile iron pipe and fittings
27 shall conform to the requirements of ANSI/AWWA C111/A21.11.

28
29 **9-30.2(2) Restrained Flange Adaptor**

30 (*****)

31 Section 9-30.2(2) is supplemented to include the following:

32
33 A restrained flange adaptor shall be installed on the discharge and suction pipes at the pump
34 discharge and pump suction. The flange adaptor shall be a Series 2100 Megaflange as manufactured
35 by EBAA Iron Inc.; or approved equal.

36
37 **9-30.2(6) Restrained Joints**

38 (*****)

39 Section 9-30.2(6) is supplemented to include the following:

40
41 Unless otherwise shown on the Contract Plans, joints shall be mechanical joints or push-on types
42 using a single rubber gasket type conforming to AWWA C111 and C153.

43
44 Joint restraints for fittings, valves and piping deflection points must be provided. Joint restraints for
45 buried piping deflection points shall use thrust blocks as shown in the Contract Plans. Where shown
46 in the Contract Plans or otherwise required, joint restraints shall be Series 1100 MEGALUG as
47 manufactured by EBAA Iron Inc., or approved equal.

48
49 **9-30.2(8) Flexible Coupling**

50 (*****)

1 Section 9-30.2(8) is supplemented to include the following:

2
3 A flexible coupling (expansion joint) shall be installed on the pump suction and discharge as shown
4 in the Contract Plans. The flexible coupling shall be a flanged concentric reducer (taper) with same
5 centerline. The flexible coupling shall be suitable for potable water use. The flexible coupling shall
6 be Series RC Concentric Reducer Expansion Joint as manufactured by Proco, or approved equal.

7
8 **9-30.3 Valves**

9 (*****)

10 Section 9-30.3 is supplemented with the following:

11
12 **9-30.3(1) Gate Valves (3-inches to 16-inches)**

13 (*****)

14 Section 9-30.3(1) is supplemented with the following:

15
16 Gate valves shall be ductile iron body, resilient-seated valves. Valves shall be manufactured and
17 tested in accordance with AWWA C509. Interior ferrous surfaces shall be epoxy-coated in
18 accordance with AWWA C550.

19
20 The gate valve shall be Mueller A2360 as manufactured by Mueller Co.; or approved equal.

21
22 Valves in buried service shall be furnished with a standard 2-inch AWWA operating nut and valve
23 box. Valve boxes shall be furnished and installed per the Contract Provisions and Plans.

24
25 (*****)

26 **Insertion Gate Valve Assembly**

27
28 The insertion valve shall be installed as shown in the Contract Plans and per manufacturer's
29 recommendations. The insertion valve shall maintain operation of the 10-inch discharge line to the
30 Hampton pump station during installation of project piping and appurtenances without emptying the
31 reservoir.

32
33 The insertion valve shall be a 10-inch ductile iron gate valve in accordance with AWWA C509.
34 The valve and installation shall be an EZ Valve Insertion Assembly as provided by Furmanite
35 Corporation; or approved equal.

36
37 (*****)

38 **Check Valves**

39
40 All check valves shall be in accordance with AWWA C508.

41
42 The valves shall have a cast iron body with bronze trim and stainless steel spring. The valves shall
43 have resilient seating (Buna-N). Valves shall be flanged with ductile iron 150 lb flanges.

44
45 The check valve on the 6-inch supply line shall be a 6-inch silent check valve, specified to open at
46 approximately ¼ to ½ psi and completely close prior to flow reversal, and installed as shown in the
47 Contract Plans. The 6-inch check valve shall be Series 600, Model 606, as manufactured by APCO
48 Valve and Primer Corporation; or approved equal.

49
50 The check valves on the 4-inch pump discharge lines shall be a 4-inch globe style check valve,

1 specified to open at approximately ¼ to ½ psi and completely close prior to flow reversal, and
2 installed as shown in the Contract Plans. The 4-inch check valve shall be Series 600, Model 604, as
3 manufactured by APCO Valve and Primer Corporation; or approved equal.

4
5 (*****)

6 **Pump Column Check Valves**

7
8 The 4-inch check valve located on the pump column shall be a non-slam, soft –seat type check valve,
9 applicable for vertical installation for submersible pumps with male threaded inlet and female
10 threaded outlet. The valve body shall be made of ductile iron (epoxy coated) and conform to ASTM
11 #65-45-12. The seat shall be molded rubber. The valve shall be Type 80DI as manufactured by
12 Danfoss Flomatic Corporation; or approved equal.

13
14
15 (*****)

16 **Surge Anticipating Valves**

17
18 A surge anticipating valve shall be installed on the surge anticipation line to protect system
19 components from pressure surges during power failure as shown in the Contract Plans per
20 manufacturer’s recommendations.

21
22 The surge anticipating valve shall be a 3-inch, ductile iron rated with 150 lbs with bronze trim,
23 globe style valve, Model 52-G-03B as manufactured by Cla-Val.

24
25 (*****)

26 **Air Release Valves**

27
28 The air release valve shall automatically open to release trapped air when the interior of the pipeline
29 is filled under pressure. The valve shall have a 1-inch or 2-inch inlet opening with a 3/16-inch
30 diameter orifice. The valve shall have a cast iron body and cover with all other parts made of
31 stainless steel, if available, or other corrosion-resistant material.

32
33 The air release valve shall be Model 200A as manufactured by APCO Valve and Primer
34 Corporation; or approved equal.

35
36 (*****)

37 **Ball Valves**

38
39 Ball valves on air release and blowoff lines shall be 2-inch full brass ball valves, and all materials
40 shall be suitable for potable water use per NSF 61. Valve shall be rated at a working pressure of 150
41 psi.

42
43 (*****)

44 **Pressure Gages**

45
46 Pressure gages shall be installed as shown in the Contract Plans including booster pump discharges
47 and suctions.

48 Standard Pressure Gage

49 The standard pressure gage shall be capable of measuring 0 to 200 psi. The pressure gage shall be
50

1 Model SGS F-0722N as manufactured by Dwyer Instruments, Inc.; or approved equal.

2
3 Pump Discharge Pressure Gage

4 The pump discharge gages shall be capable of measuring 0 to 200 psi. The pump discharge gage
5 shall be Model SGS F-0722N as manufactured by Dwyer Instruments, Inc.; or approved equal.

6
7 Pump Suction Pressure Gage

8 The suction gages shall be a compound gage capable of measuring 3 inches of Hg to 15 psi. The
9 pump suction gage shall be Model SGS-F-2122N as manufactured by Dwyer Instruments, Inc.; or
10 approved equal.

11
12 (*****)

13 **Flowmeters**

14
15 Flowmeters shall be installed in accordance with the manufacture's recommendations and as shown
16 in the Contract Plans: a 3-inch flowmeter for the supply line from the well; 6-inch flowmeter for the
17 10-inch discharge line to Hampton pump station; and 6-inch flowmeter on the 8-inch discharge line
18 from the booster pumps.

19
20 Submittals and calibration of the flowmeters shall be per Section 7.12.2.

21
22 Flowmeters shall be electromagnetic type meters conforming to the requirements of AWWA C704.
23 All wetted metal parts (electrodes) shall be type 316 stainless steel. Meters shall have a minimum
24 working pressure of 150 psi; minimum flow range of 50 gpm to 2000 gpm; and accuracy of at least
25 e/- 0.5% when measuring the full flow range.

26
27 The meter head shall be mounted on a flanged connection for ease of removal. The meter shall be
28 compatible with ANSI/AWWA flanges.

29
30 Meters shall come standard with remote mounted signal converter with flow rate indicator and
31 totalizer. The indicator and totalizer shall read totalized flow in gallons or in cubic feet, and the rate
32 in gpm or cfs.

33
34 Meters shall be Ultra Mag Flowmeter as manufactured by McCrometer; or approved equal.

35
36 **POWER EQUIPMENT**

37 (*****)

38 The successful bidder will be required to furnish the County a list of all equipment that they anticipate
39 utilizing on this project.

40
41 The bidder's attention is directed to the attached Power Equipment Form, which the successful bidder will
42 be required to complete and return with the contract documents. This information will enable hourly
43 rental rates to be computed by the County, utilizing the "Rental Rate Blue Book for Construction
44 Equipment". No payment for any force account work will be allowed until this form has been returned
45 and accepted by the County.

46
47 **BOND**

48 (*****)

49 The Bidder's special attention is directed to the attached bond form, which the successful bidder will be

1 required to execute and furnish the County. **NO OTHER BOND FORMS WILL BE ACCEPTED.**
2 The bond shall be for the full amount of the contract.

3
4 **APPENDICES**

5 (July 12, 1999)

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

7 ***** APPENDIX A:

8 Washington State Prevailing Wage Rates including Benefit Codes and Supplement, and
9 Federal Prevailing Wage Rates

10
11 APPENDIX B:

12 Federal Contract Provisions

13
14 APPENDIX C:

15 Bid Proposal Documents

16
17 APPENDIX D:

18 Contract Documents

19
20 APPENDIX E:

21 Electrical, Heating and Ventilation, and Control System Technical Specifications

22
23 APPENDIX F:

24 Contract Plans

25
26 APPENDIX G:

27 Product Cut Sheets

28
29 APPENDIX H:

30 Miscellaneous

31
32
33 **STANDARD PLANS**

34 **AUGUST 3, 2009**

35 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01
36 transmitted under Publications Transmittal No. PT 09-013, effective August 3, 2009 is made a
37 part of this contract.

38
39 The Standard Plans are revised as follows:

40
41 All Standard Plans

42 All references in the Standard Plans to "Asphalt Concrete Pavement" shall be revised to
43 read "Hot Mix Asphalt".

44
45 All references in the Standard Plans to the abbreviation "ACP" shall be revised to read
46 "HMA".

47
48 B-10.20 and B10.40

49 Substitute "step" in lieu of "handhold" on plan

1
2 C-1a

3 In the TYPE 10 WOOD POST ASSEMBLY, delete callout – NESTED THRIE BEAM
4 In the TYPE 11 WOOD POST ASSEMBLY, THE 18” button head bolt is revised to 25”

5
6 C-1b

7 In the ANCHOR POST ASSEMBLY, the above ground 7 1/2” long bolt connecting the
8 Wood Breakaway Post to the Foundation Tube is revised to 10” long.

9
10 C-3, C-3B, C-3C

11 Note 1 is revised as follows: replace reference F-2b with F-10.42

12
13 C-5

14 In the A CONNECTION, “Type 3 transition pay limit” is revised to “transition pay limit”.

15
16 C-10 (sheet 2 of 2)

17 COVER PLATE DETAIL, dimension of the 1” dia. holes, changes from 8” to 3”

18
19 F-10.20

20 GENERAL NOTE

21 Revise as follows:

22 Replace reference to F-3 with F-30.10

23
24 F-40.12 through F-40.18

25 The following note is added to these five plans:

26
27 Note 7. To the maximum extent feasible, the ramp cross slope shall not exceed 2%.

28
29 G-24.40

30 Existing callout - CORNER BOLT (TYP.)

31 New callout - CORNER BOLT OR SHOULDER BOLT (TYP.)

32
33 J-28.40

34 Add to the end of Note 4.

35 DO NOT OVERTIGHTEN. After State Inspection, Burr threads to
36 prevent nut rotation.

37
38 J-40.10, Section A

39 replace 3” MIN. with 3” MAX.

40
41 K-80.30

42 In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan
43 K-80.35

44
45 L-20.10, Sheet 1

46 Delete all references to tension cable and substitute tension wire.

47 Add knuckled selvage is required on the top edge of the fence fabric.

48
49 L-20.10, Sheet 2

50 Delete all references to tension cable and substitute tension wire.

51 All rope thimbles, wire rope clips and seizing are not required.

1
2 L-30.10, Sheet 1

3 Delete all references to tension cable and substitute tension wire.

4
5 L-30.10, Sheet 2

6 Delete all references to tension cable and substitute tension wire.

7 All rope thimbles, wire rope clips and seizing are not required.

8
9 M-1.60

10 COLLECTOR DISTRIBUTOR ROAD OFF- CONNECTION, taper dimensions of 225' MIN.
11 is changed to 300' MIN.

12
13 M-20.30

14 LEFT EDGE OF LANE PLACEMENT DETAIL

15 Dimension 4" replaced with 1"

16
17 The following are the Standard Plan numbers applicable at the time this project was advertised.
18 The date shown with each plan number is the publication approval date shown in the lower
19 right-hand corner of that plan. Standard Plans showing different dates shall not be used in this
20 contract.

21
A-10.10-00.....8/07/07 A-30.30-00.....11/08/07 A-50.20-00.....11/17/08
A-10.20-00.....10/05/07 A-30.35-00.....10/12/07 A-50.30-00.....11/17/08
A-10.30-00.....10/05/07 A-40.10-00.....10/05/07 A-50.40-00.....11/17/08
A-20.10-00.....8/31/07 A-40.20-00.....9/20/07 A-60.10-00.....10/05/07
A-30.10-00.....11/08/07 A-40.50-00.....11/08/07 A-60.20-00.....10/05/07
A-30.15-00.....11/08/07 A-50.10-00.....11/17/08 A-60.30-00.....11/08/07
A-60.40-00.....8/31/07

22
B-5.20-00.....6/01/06 B-30.50-00.....6/01/06 B-75.20-01.....6/10/08
B-5.40-00.....6/01/06 B-30.70-01.....8/31/07 B-75.50-01.....6/10/08
B-5.60-00.....6/01/06 B-30.80-00.....6/08/06 B-75.60-00.....6/08/06
B-10.20-00.....6/01/06 B-30.90-01.....9/20/07 B-80.20-00.....6/08/06
B-10.40-00.....6/01/06 B-35.20-00.....6/08/06 B-80.40-00.....6/01/06
B-10.60-00.....6/08/06 B-35.40-00.....6/08/06 B-82.20-00.....6/01/06
B-15.20-00.....6/01/06 B-40.20-00.....6/01/06 B-85.10-01.....6/10/08
B-15.40-00.....6/01/06 B-40.40-00.....6/01/06 B-85.20-00.....6/01/06
B-15.60-00.....6/01/06 B-45.20-00.....6/01/06 B-85.30-00.....6/01/06
B-20.20-01.....11/21/06 B-45.40-00.....6/01/06 B-85.40-00.....6/08/06
B-20.40-02.....6/10/08 B-50.20-00.....6/01/06 B-85.50-01.....6/10/08
B-20.60-02.....6/10/08 B-55.20-00.....6/01/06 B-90.10-00.....6/08/06
B-25.20-00.....6/08/06 B-60.20-00.....6/08/06 B-90.20-00.....6/08/06
B-25.60-00.....6/01/06 B-60.40-00.....6/01/06 B-90.30-00.....6/08/06
B-30.10-00.....6/08/06 B-65.20-00.....6/01/06 B-90.40-00.....6/08/06
B-30.20-01.....11/21/06 B-65.40-00.....6/01/06 B-90.50-00.....6/08/06
B-30.30-00.....6/01/06 B-70.20-00.....6/01/06 B-95.20-01.....2/03/09
B-30.40-00.....6/01/06 B-70.60-00.....6/01/06 B-95.40-00.....6/08/06

23
C-1.....2/10/09 C-4e.....2/20/03 C-14i.....2/10/09
C-1a.....2/10/09 C-4f.....6/30/04 C-14j.....12/02/03

C-1b.....10/31/03	C-5.....10/31/03	C-14k.....2/10/09
C-1c.....5/30/97	C-6.....5/30/97	C-15a.....7/3/08
C-1d.....10/31/03	C-6a.....3/14/97	C-15b.....7/3/08
C-2.....1/06/00	C-6c.....1/06/00	C-16a.....11/08/05
C-2a.....6/21/06	C-6d.....5/30/97	C-16b.....11/08/05
C-2b.....6/21/06	C-6f.....7/25/97	C-20.14-00.....2/06/07
C-2c.....6/21/06	C-7.....10/31/03	C-20.40-00.....2/06/07
C-2d.....6/21/06	C-7a.....10/31/03	C-20.42-00.....2/03/09
C-2e.....6/21/06	C-8.....2/10/09	C-22.14-00.....2/03/09
C-2f.....3/14/97	C-8a.....7/25/97	C-22.16-00.....2/03/09
C-2g.....7/27/01	C-8b.....2/10/09	C-22.40-01.....10/05/07
C-2h.....3/28/97	C-8e.....2/21/07	C-23.60-00.....2/06/07
C-2i.....3/28/97	C-8f.....6/30/04	C-25.18-01.....9/20/07
C-2j.....6/12/98	C-10.....7/31/98	C-25.20-03.....2/03/09
C-2k.....7/27/01	C-13.....7/3/08	C-25.22-02.....2/03/09
C-2n.....7/27/01	C-13a.....7/3/08	C-25.26-00.....2/03/09
C-2o.....7/13/01	C-13b.....7/3/08	C-25.80-01.....7/3/08
C-2p.....10/31/03	C-13c.....7/3/08	C-28.40-00.....2/06/07
C-3.....10/04/05	C-14a.....7/3/08	C-40.14-00.....2/03/09
C-3a.....10/04/05	C-14b.....7/26/02	C-40.16-00.....2/03/09
C-3b.....10/04/05	C-14c.....7/3/08	C-40.18.00.....2/03/09
C-3c.....6/21/06	C-14d.....7/3/08	C-90.10-00.....7/3/08
C-4.....2/21/07	C-14e.....7/3/08	
C-4b.....6/08/06	C-14h.....2/10/09	

1

D-2.02-00.....11/10/05	D-2.44-00.....11/10/05	D-3b.....6/30/04
D-2.04-00.....11/10/05	D-2.46-00.....11/10/05	D-3c.....6/30/04
D-2.06-01.....1/06/09	D-2.48-00.....11/10/05	D-4.....12/11/98
D-2.08-00.....11/10/05	D-2.60-00.....11/10/05	D-6.....6/19/98
D-2.10-00.....11/10/05	D-2.62-00.....11/10/05	D-10.10-01.....12/02/08
D-2.12-00.....11/10/05	D-2.64-01.....1/06/09	D-10.15-01.....12/02/08
D-2.14-00.....11/10/05	D-2.66-00.....11/10/05	D-10.20-00.....7/8/08
D-2.16-00.....11/10/05	D-2.68-00.....11/10/05	D-10.25-00.....7/8/08
D-2.18-00.....11/10/05	D-2.78-00.....11/10/05	D-10.30-00.....7/8/08
D-2.20-00.....11/10/05	D-2.80-00.....11/10/05	D-10.35-00.....7/8/08
D-2.30-00.....11/10/05	D-2.82-00.....11/10/05	D-10.40-01.....12/02/08
D-2.32-00.....11/10/05	D-2.84-00.....11/10/05	D-10.45-01.....12/02/08
D-2.34-01.....1/06/09	D-2.86-00.....11/10/05	D-15.10-01.....12/02/08
D-2.36-02.....1/06/09	D-2.88-00.....11/10/05	D-15.20-01.....1/06/09
D-2.38-00.....11/10/05	D-2.92-00.....11/10/05	D-15.30-01.....12/02/08
D-2.40-00.....11/10/05	D-3.....7/13/05	
D-2.42-00.....11/10/05	D3a.....12/02/08	

2

E-1.....2/21/07	E-4.....8/27/03
E-2.....5/29/98	E-4a.....8/27/03

3

F-10.12-00.....12/20/06	F-30.10-00.....1/23/07	F-40.18-00.....2/07/07
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F-10.16-00.....12/20/06	F-40.10-01.....10/05/07	F-40.20-00.....10/05/07
F-10.40-01.....7/3/08	F-40.12-00.....2/07/07	F-42.10-00.....10/05/07
F-10.42-00.....1/23/07	F-40.14-00.....2/07/07	F-80.10-00.....1/23/07
F-10.62-01.....9/05/07	F-40.15-00.....2/07/07	
F-10.64-02.....7/3/08	F-40.16-00.....2/07/07	

1

G-10.10-00.....9/20/07	G-24.60-00.....11/08/07	G-70.20-00.....10/5/07
G-20.10-00.....9/20/07	G-25.10-01.....1/06/09	G-70.30-00.....10/5/07
G-22.10-01.....7/3/08	G-30.10-00.....11/08/07	G-90.10-00.....1/06/09
G-24.10-00.....11/08/07	G-50.10-00.....11/08/07	G-90.20-00.....1/06/09
G-24.20-00.....11/08/07	G-60.10-00.....8/31/07	G-90.30-00.....1/06/09
G-24.30-00.....11/08/07	G-60.20-00.....8/31/07	G-90.40-00.....1/06/09
G-24.40-01.....12/02/08	G-60.30-00.....8/31/07	G-95.10-00.....11/08/07
G-24.50-00.....11/08/07	G-70.10-00.....10/5/07	G-95.20-01.....7/10/08
		G-95.30-01.....7/10/08

2

H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-00.....9/05/07
H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-00.....9/05/07
H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	H-70.30-01.....11/17/08

3

I-10.10-00.....8/31/07	I-30.50-00.....11/14/07	I-50.20-00.....8/31/07
I-30.10-00.....9/20/07	I-40.10-00.....9/20/07	I-60.10-00.....8/31/07
I-30.20-00.....9/20/07	I-40.20-00.....9/20/07	I-60.20-00.....8/31/07
I-30.30-00.....9/20/07	I-50.10-00.....9/20/07	I-80.10-00.....8/31/07
I-30.40-00.....10/12/07		

4

J-1f.....6/23/00	J-9a.....4/24/98	J-28.30-00.....8/07/07
J-3.....8/01/97	J-10.....7/18/97	J-28.40-00.....8/07/07
J-3b.....3/04/05	J-11b.....9/02/05	J-28.42-00.....8/07/07
J-3c.....6/24/02	J-12.....2/10/09	J-28.45-00.....8/07/07
J-3d.....11/05/03	J-16a.....3/04/05	J-28.50-00.....8/07/07
J-5.....8/01/97	J-16b.....2/10/09	J-28.60-00.....8/07/07
J-6c.....4/24/98	J-16c.....2/10/09	J-28.70-00.....11/08/07
J-7a.....9/12/01	J-18.....2/10/09	J-40.10-00.....1/06/09
J-7c.....6/19/98	J-19.....2/10/09	J-40.30-00.....1/06/09
J-7d.....4/24/98	J-20.....9/02/05	J-75.10-00.....2/10/09
J-8a.....5/20/04	J-28.10-00.....8/07/07	J-75.20-00.....2/10/09
J-8b.....5/20/04	J-28.22-00.....8/07/07	J-75.30-00.....2/10/09
J-8c.....5/20/04	J-28.24-00.....8/07/07	J-90.10-00.....2/10/09
J-8d.....5/20/04	J-28.26-01.....12/02/08	J-90.20-00.....2/10/09

5

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

1

L-10.10-00.....2/21/07	L-40.10-00.....2/21/07	L-70.10-01.....5/21/08
L-20.10-00.....2/07/07	L-40.15-00.....2/21/07	L-70.20-01.....5/21/08
L-30.10-00.....2/07/07	L-40.20-00.....2/21/07	

2

M-1.20-01.....1/30/07	M-7.50-01.....1/30/07	M-24.60-02.....2/06/07
M-1.40-01.....1/30/07	M-9.50-01.....1/30/07	M-40.10-00.....9/20/07
M-1.60-01.....1/30/07	M-9.60-00.....2/10/09	M-40.20-00...10/12/07
M-1.80-02.....8/31/07	M-11.10-01.....1/30/07	M-40.30-00.....9/20/07
M-2.20-01.....1/30/07	M-15.10-01.....2/06/07	M-40.40-00.....9/20/07
M-2.40-01.....1/30/07	M-17.10-02.....7/3/08	M-40.50-00.....9/20/07
M-2.60-01.....1/30/07	M-20.10-01.....1/30/07	M-40.60-00.....9/20/07
M-3.10-02.....2/10/09	M-20.20-01.....1/30/07	M-60.10-00.....9/05/07
M-3.20-01.....1/30/07	M-20.30-01.....1/30/07	M-60.20-01.....2/03/09
M-3.30-02.....2/10/09	M-20.40-01.....1/30/07	M-65.10-01.....5/21/08
M-3.40-02.....2/10/09	M-20.50-01.....1/30/07	M-80.10-00.....6/10/08
M-3.50-01.....1/30/07	M-24.20-01.....5/31/06	M-80.20-00.....6/10/08
M-5.10-01.....1/30/07	M-24.40-01.....5/31/06	M-80.30-00.....6/10/08

3

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5

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APPENDIX A

WASHINGTON STATE PREVAILING WAGE RATES

INCLUDING:

State Wage Rates

Wage Rate Supplements

Wage Rate Benefit Codes

Federal Wage Rates

APPENDIX B

FEDERAL CONTRACT PROVISIONS

INCLUDING:

**Washington State Dept of Community, Trade and Economic
Development, Community Development Block Grant Program,
General Conditions**

APPENDIX C

BID PROPOSAL DOCUMENTS

***THE FOLLOWING MUST BE INCLUDED IN THE COMPLETED BID PACKAGE:**

Notice to Contractor

***Proposal Form**

***Non-Collusion Declaration**

***Proposal Signature Page**

***Bid Proposal Guaranty**

***Power Equipment List**

***Evidence of Experience & Contact Information**

***CDBG Forms 7B through 7F**

Bidder Certification Required by Executive Order 11246

Subcontractor Certification Required by Executive Order 11246

Contractor Section 3 Plan

***ARRA Section 1605 Certification**

